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***Caution***

The default or operating values used in this manual and in the program of the AccuLoad III are for factory testing only and should not be construed as default or operating values for your metering system. Each metering system is unique and each program parameter must be reviewed and programmed for that specific metering system application.

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## **Introduction**

The Modbus protocol was developed by Modicon, Inc. to be a concise method of transferring data to/from programmable logic controllers (PLCs). It has become a de-facto standard in many areas of industrial automation where supervisory control or remote data collection is required. In a Modbus system, a host (master) communicates with one or multiple field devices (slaves). The AccuLoad III acts as a slave device only; an external host must act as the master to query or control the AccuLoad III. Each configured arm in the AccuLoad III must have a unique communication address in the range of 1 to 99. It is recommended that communications ports 2 or 3 on the AccuLoad be used for Modbus communications. Host messages to address 0 (the Modbus broadcast address) are not currently supported (are ignored) by the AccuLoad III. For more information regarding Modbus communications specifics, refer to the Modbus Communications primer in the Appendix.

## **Number Conventions in this Manual**

Throughout this document, numeric values (such as addresses, register values, or data arguments) intended to be interpreted as hexadecimal are preceded by "0x". If no "0x" is present, then the value should be interpreted as a decimal number.

## **Modbus Register Range**

The AccuLoad III utilizes the full register range allowed by the Modbus specification (0 through 65535). Some supervisory computer Modbus driver packages artificially limit the register range; these host drivers are not recommended for use with the AccuLoad III.

Modbus register numbering is sometimes a source of confusion, as the register IDs used by some clients start at 1, while the actual Modbus register addresses in a Modbus slave start at 0 (so the register values sent on the 'wire' start at 0). Hence, some client software actually subtracts 1 from the register field prior to transmitting the Modbus command. This manual assumes a ZERO based addressing scheme, so for those Modbus clients that pre-decrement the specified register, you must add 1 to the register number given in the AccuLoad reference manual to get the desired value.

## **Floating Point Endian Control**

Floating-point numbers are not defined in the Modbus specification; there are nearly as many variations of how it is supported, as there are vendors. Most often, Modbus registers are combined sequentially to make up an IEEE single precision or double precision floating point number; this is the case in the AccuLoad III. Two registers are needed for single precision and four for double precision numbers. There are, however, several ways to map floating point values to Modbus registers. To assure compatibility with off-the-shelf drivers, three popular variations of

byte ordering for floating point numbers are supported (see system program code 732).

The AccuLoad III will return the single precision representation for PI (3.14159...) using function 3 registers 2106 and 2107. Registers 2108 through 2111 represent the double precision representation of PI. These registers are useful for setting up a compatible byte order for various Modbus host drivers; simply program the host to display these registers as appropriate floats, and change program code 732 until PI is properly interpreted by the host.

## **Changing Program Mode Parameters**

The AccuLoad III limits access to Program Mode parameters to assure a valid configuration is present before loading is allowed. Only one source (comm port or keypad) is granted access at any one time. Also, additional requirements must be met to modify Program Mode parameters. Via Modbus, the following procedure must be used:

1. Clear the Program Mode Result field (function 6, register 2050, data 0).
2. Make any program code changes by writing the new value to the appropriate location using function 6 or 16. If successful, the first write will set the Program Mode state for this port to 1. Some data (like text strings) encompass multiple registers; these registers should be written together or in ascending order. (All registers for the data must be updated to effect a change.)
3. Issue a "Program Mode logout - save changes" command (function 6, register 2048, data 1). Alternately, discard the changes made since the last logout by writing data = 2.
4. Repeatedly read the Program Mode state (function 3, register 2049) until the return value is 0. Possible values are:
  - 0 - Not in Program Mode via this port
  - 1 - In Program Mode via this port
  - 2 - Checking for configuration errors. When complete (state not 2), the AccuLoad III will automatically reset the state to 0. This register reflects the Program Mode state on this port only.
5. Read the Program Mode result (function 3, register 2050) to determine success/failure
  - 0 - Program Mode exited normally
  - 1 - Preempted by the keypad (any pending changes made via comm port are lost)
  - 2 - Critical configuration errors exist that must be corrected before loading can commence (changes are saved).
  - 3 - This port has been reset externally (any pending changes are lost).

## Section I – Introduction/Overview

### ***AccuLoad III-X Modbus Map – Overview***

<b>Function 1</b> Read Coil	<b>Function 2</b> Read Input Status	<b>Function 3</b> Read Holding Register	<b>Function 4</b> Read Input Registers
<b>Function 5</b> Force Single Coil		<b>Function 6</b> Preset Holding Register	
<b>Function 15</b> Force Multiple Coils		<b>Function 16</b> Preset Multiple Regs	
Coils 43-120 Set General-Purpose Digital Output states	Coils 0-120 Read Digital I/O States	Register 2112 Set User Alarms	Registers 2048-22351 Registers 29696-29890 Read Run Data values
Coils 128-2695 Reset Alarm Indicators System, Arm, Meter, Product, Injector	Coils 128-2695 Read Alarm Indicators	Registers 2176-2437 Write Turbine Meter Diagnostic commands	Registers 3008-3023 Read User Timers
	Coils 4096-4172 Read Status Flags	Registers 2496-2511 Write User Timers	Registers 22528-28883 Read Recipe Totalizers and Recipe Calculated Program Mode Values
		Registers 2560-2915 Read/Write User Variables	
		Registers 2944-22656 Read/Write Program Mode parameter values <sup>1</sup>	
		Registers 22784-22795 Write to General-Purpose Analog Output channels	
<b>Coil 4096</b> <i>Issue Initiate Extended Service command<sup>2</sup></i>		<i>Registers 0-1023 Write to Extended Services Input buffer area<sup>2</sup></i>	<i>Registers 0-2047 Read Extended Services Output buffer area<sup>2</sup></i>

<sup>1</sup> See "Changing Program Mode Parameters" in this section for details on writing to program mode parameters

<sup>2</sup> Refer to "Section VII, Extended Services" for an in-depth explanation on accessing advanced features such as prompting and transaction control using these areas

## Section II – AccuLoad III-X Modbus Examples

### Examples of AccuLoad III-X Modbus Commands

#### Example 1 - Clear User Alarm 2 using Function 5 - Force Single Coil

The alarm clearing action is mapped to Function 1, 5, 15. A write is required to clear an alarm, so function 5 (force coil) is used. The table shows that this alarm's reset point is located at Coil 144 (0x0090). **To force a single coil on using function 5, Modbus requires the specific data value of 65280 (0xFF00) be written.**

Force Coil Message							
Address 0x01	Function 0x05	Coil (MSB) 0x00	Coil (LSB) 0x90	Data (MSB) 0xFF	Data (LSB) 0x00	CRC (LSB) 8C	CRC (MSB) 17

Response to Force Coil Message							
Address 0x01	Function 0x05	Coil (MSB) 0x00	Coil (LSB) 0x90	Data (MSB) 0xFF	Data (LSB) 0x00	CRC (LSB) 8C	CRC (MSB) 17

#### Example 2 - Set Digital Outputs 1, 6 and 9 using Function 15 - Force Multiple Coils

Since Modbus Function 15 allows forcing of multiple coils, it can be used to set multiple general purpose digital outputs. Modbus treats the data sent with a Force Multiple Coils command as a series of bit-mapped coil states. This demonstrates one of the strengths of Modbus: a considerable amount of functionality can be packed into a very concise command. Each byte in the data area of the command represents the state of 8 coils. The first byte's low-order bit represents digital output 1, and the first byte's high order bit represents digital output 8.

Starting Coil Number:           43  
 Number of Coils:               16  
 Data:                            0x2101 (bit packed data, binary 00100001 and 00000001, corresponding to Digital inputs 0, 1, and 9)

Force Multiple Coil Message										
Address 0x01	Function 0x0F	Starting Coil (MSB) 0x00	Starting Coil (LSB) 0x2B	# Coils Written (MSB) 00	# Coils Written (LSB) 10	# of Data Bytes 02	Data Byte 1 20	Data Byte 2 21	CRC (LSB) 85	CRC (MSB) 98

Response to Force Multiple Coils Message							
Address 0x01	Function 0x0F	Starting Coil (MSB) 0x00	Starting Coil (LSB) 0x2B	# Coils Written (MSB)	# Coils Written (LSB)	CRC (LSB) 0x24	CRC (MSB) 0x0F

## Section II – AccuLoad III-X Modbus Examples

### Example 3

Interrogation Message: Read the meter K factor (program code "arm 1, meter 1, parameter 301")

AccuLoad III Address: 01

Function Code: 03 (Read Holding Registers)

Beginning Register Number: 5698

Number of Registers: 2

READ HOLDING REGISTERS							
Interrogation Message							
Address 0x01	Function Code 0x03	Beginning Register (MSB) 0x16	Beginning Register (LSB) 0x42	Number of Req. Regs (MSB) 0x00	Number of Req. Regs (LSB) 0x02	CRC16 (LSB) 0x60	CRC16 (MSB) 0x57

Response Message: K factor = 100.0 (*Note: AccuLoad host communications set to "Little 16" endian to match Intel PC*)

AccuLoad III Address: 01

Function Code: 03 (Read Holding Registers)

Byte Count: 04

READ HOLDING REGISTERS								
Response Message								
Address 0x01	Function Code 0x03	Byte Count 0x04	MSB of the First Data Reg. 0x00	LSB of the First Data Reg. 0x00	MSB of the Second Data Reg. 0x42	LSB of the Second Data Reg. 0xC8	CRC16 (LSB) 0xCB	CRC16 (MSB) 0x05

### Example 4

Interrogation Message: Write the value 1 to Boolean/Algebraic Boolean User Variable #1

AccuLoad III Address: 01

Function Code: 06 (Write a Holding Register)

Beginning Register Number: 2816

Number of Registers: 1

WRITE HOLDING REGISTER							
Interrogation Message							
Address 0x01	Function Code 0x06	Register (MSB) 0x0B	Register (LSB) 0x00	Data (MSB) 0x00	Data (LSB) 0x01	CRC16 (LSB) 0x4A	CRC16 (MSB) 0x2E



## Section II – AccuLoad III-X Modbus Examples

**Response Message:**

AccuLoad III Address: 01  
 Function Code: 06 (Write a Holding Register)  
 Beginning Register Number: 2816  
 Number of Registers: 1

WRITE HOLDING REGISTER							
Response Message							
Address 0x01	Function Code 0x06	Beginning Register (MSB) 0x0B	Beginning Register (LSB) 0x00	Data Req. Regs (MSB) 0x00	Data Req. Regs (LSB) 0x01	CRC16 (LSB) 0x4A	CRC16 (MSB) 0x2E

**Example 5**

Interrogation Message: Write the value 10.0 to Boolean/Algebraic User Float Variable #1 (“Little 16” endian)  
 AccuLoad III Address: 01  
 Function Code: 16 (Write Multiple Registers)  
 Beginning Register Number: 2560  
 Number of Registers: 2

WRITE HOLDING REGISTER (MULTIPLE)												
Interrogation Message												
Ad- dress 0x01	Func- tion Code 0x10	Begin- ning Reg MSB 0x0A	Begin- ning Reg LSB 0x00	No. Regs MSB 0x00	No. Regs LSB 0x02	Byte Count 0x04	Data Reg 1 MSB 0x00	Data Reg 1 LSB 0x00	Data Reg 2 MSB 0x41	Data Reg 2 LSB 0x20	CRC 16 LSB 0x6C	CRC 16 MSB 0x87

**Response Message:**

AccuLoad III Address: 01  
 Function Code: 16

WRITE HOLDING REGISTER (MULTIPLE)							
Response Message							
Address 0x01	Function Code 0x10	Beginning Reg MSB 0x0A	Beginning Reg LSB 0x00	No. Regs MSB 0x00	No. Regs LSB 0x02	CRC16 LSB 0x42	CRC16 MSB 0x10

## Section III – Table for Function 01, 05, 15 Read/Write Coil

### Map of Functions 01, 05 and 15 – Read/Write Binary Data (Read/Force Relay Coils)

#### Set Digital Output State

Control digital outputs (1-78), output must be programmed as general-purpose output to be controlled via communications. 0 state = off, 1 state = on. These points are write-only, query return values are undefined. (Note: The Modbus Function 2 registers corresponding to these outputs (at the same address) will return the current state.)

Modbus Coil #	Data Point
43	Output #1, DC (KDC)
44	Output #2
45	Output #3
46	Output #4
47	Output #5
48	Output #6
49	Output #7
50	Output #8
51	Output #9
52	Output #10
53	Output #11
54	Output #12
55	Output #13
56	Output #14
57	Output #15
58	Output #16
59	Output #17
60	Output #18
61	Output #19
62	Output #20
63	Output #21
64	Output #22
65	Output #23
66	Output #24
67	Output #25
68	Output #26
69	Output #27
70	Output #28
71	Output #29
72	Output #30
73	Output #31 (BIO 1)

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Data Point
74	Output #32 (BIO 2)
75	Output #33 (BIO 3)
76	Output #34 (BIO 4)
77	Output #35 (BIO 5)
78	Output #36 (BIO 6)
79	Output #37 (BIO 7)
80	Output #38 (BIO 8)
81	Output #39 (AICB 1 Out 1)
82	Output #40 (AICB 1 Out 2)
83	Output #41 (AICB 1 Out 3)
84	Output #42 (AICB 1 Out 4)
85	Output #43 (AICB 1 Out 5)
86	Output #44 (AICB 1 Out 6)
87	Output #45 (AICB 1 Out 7)
88	Output #46 (AICB 1 Out 8)
89	Output #47 (AICB 1 Out 9)
90	Output #48 (AICB 1 Out 10)
91	Output #49 (AICB 1 Out 11)
92	Output #50 (AICB 1 Out 12)
93	Output #51 (AICB 1 Out 13)
94	Output #52 (AICB 1 Out 14)
95	Output #53 (AICB 1 Out 15)
96	Output #54 (AICB 1 Out 16)
97	Output #55 (AICB 1 Out 17)
98	Output #56 (AICB 1 Out 18)
99	Output #57 (AICB 1 Out 19)
100	Output #58 (AICB 1 Out 20)
101	Output #59 (AICB 2 Out 1)
102	Output #60 (AICB 2 Out 2)
103	Output #61 (AICB 2 Out 3)
104	Output #62 (AICB 2 Out 4)
105	Output #63 (AICB 2 Out 5)
106	Output #64 (AICB 2 Out 6)
107	Output #65 (AICB 2 Out 7)
108	Output #66 (AICB 2 Out 8)
109	Output #67 (AICB 2 Out 9)

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Data Point
110	Output #68 (AICB 2 Out 10)
111	Output #69 (AICB 2 Out 11)
112	Output #70 (AICB 2 Out 12)
113	Output #71 (AICB 2 Out 13)
114	Output #72 (AICB 2 Out 14)
115	Output #73 (AICB 2 Out 15)
116	Output #74 (AICB 2 Out 16)
117	Output #75 (AICB 2 Out 17)
118	Output #76 (AICB 2 Out 18)
119	Output #77 (AICB 2 Out 19)
120	Output #78 (AICB 2 Out 20)

### **Clear Alarms**

Writing a 1 clears the alarm. Writing a zero has no effect. These points are write-only, return value from queries undefined.

Modbus Coil #	Alarm Area	Data Point
128	System	Rom Bad
129	System	Ram Bad
130	System	Flash Error
131	System	Powerup Ram Corrupt
132	System	Powerup Flash Corrupt
133	System	Watchdog Error
134	System	System Program Error
135	System	EAAI Failure
136	System	BSE Failure
137	System	Passcodes Reset
138	System	Powerfail
139	System	Communications Error
140	System	Civacon Alarm
141	System	Shared Printer
142	System	PTB Printer Failure
143	System	User Alarm 1
144	System	User Alarm 2
145	System	User Alarm 3
146	System	User Alarm 4
147	System	User Alarm 5

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
148	System	User Alarm 6
149	System	User Alarm 7
150	System	User Alarm 8
151	System	User Alarm 9
152	System	User Alarm 10
153	System	Add-Pak #1 Powerfail
154	System	Add-Pak #2 Powerfail
155	System	Add-Pak #1 Diagnostic
156	System	Add-Pak #2 Diagnostic
157	System	AICB #1 Auto-Detect Failed
158	System	AICB #2 Auto-Detect Failed
159	System	AICB #1 Comm Failed
160	System	AICB #2 Comm Failed
161	System	Display Failure
162	System	MMI Comm Failure
163	System	MMI Excess Active Arms
164	System	DA: Data Retention
165	System	CF: ComFLASH
166	System	NP: Network Printer
167	System	FA Sening Cop Alarm
192	Arm	Arm Program Error
193	Arm	System Zero Flow
194	Arm	System Overrun
195	Arm	Ticket Alarm
196	Arm	Product Clean Line
197	Arm	Additive Clean Line
198	Arm	Recipe Program Error
199	Arm	Storage Full
200	Arm	DE Head
256	Meter 1	Meter Program Error
257	Meter 1	Transmitter Integrity
258	Meter 1	Pulse Security
259	Meter 1	Valve Fault
260	Meter 1	Temperature Transducer Failure
261	Meter 1	Pressure Transducer Failure
262	Meter 1	Density Transducer Failure

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
263	Meter 1	Turbine Meter Alarm
264	Meter 1	Mass Meter Communications
265	Meter 1	Mass Meter Overdrive
266	Meter 1	Mass Meter Tube Fail
320	Meter 2	Meter Program Error
321	Meter 2	Transmitter Integrity
322	Meter 2	Pulse Security
323	Meter 2	Valve Fault
324	Meter 2	Temperature Transducer Failure
325	Meter 2	Pressure Transducer Failure
326	Meter 2	Density Transducer Failure
327	Meter 2	Turbine Meter Alarm
328	Meter 2	Mass Meter Communications
329	Meter 2	Mass Meter Overdrive
330	Meter 2	Mass Meter Tube Fail
384	Meter 3	Meter Program Error
385	Meter 3	Transmitter Integrity
386	Meter 3	Pulse Security
387	Meter 3	Valve Fault
388	Meter 3	Temperature Transducer Failure
389	Meter 3	Pressure Transducer Failure
390	Meter 3	Density Transducer Failure
391	Meter 3	Turbine Meter Alarm
392	Meter 3	Mass Meter Communications
393	Meter 3	Mass Meter Overdrive
394	Meter 3	Mass Meter Tube Fail
448	Meter 4	Meter Program Error
449	Meter 4	Transmitter Integrity
450	Meter 4	Pulse Security
451	Meter 4	Valve Fault
452	Meter 4	Temperature Transducer Failure
453	Meter 4	Pressure Transducer Failure
454	Meter 4	Density Transducer Failure
455	Meter 4	Turbine Meter Alarm
456	Meter 4	Mass Meter Communications
457	Meter 4	Mass Meter Overdrive

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
458	Meter 4	Mass Meter Tube Fail
		(Meter 5 and 6 alarms are located after the Injector Alarms)
512	Product 1	Product Program Error
513	Product 1	Back Pressure
514	Product 1	High Density
515	Product 1	High Flow
516	Product 1	High Pressure
517	Product 1	High Temperature
518	Product 1	Low Density
519	Product 1	Low Flow
520	Product 1	Low Pressure
521	Product 1	Low Temperature
522	Product 1	Product Zero Flow
523	Product 1	Product Overrun
524	Product 1	Block Valve Feedback
525	Product 1	Blend High
526	Product 1	Blend Low
527	Product 1	Product Stop
576	Product 2	Product Program Error
577	Product 2	Back Pressure
578	Product 2	High Density
579	Product 2	High Flow
580	Product 2	High Pressure
581	Product 2	High Temperature
582	Product 2	Low Density
583	Product 2	Low Flow
584	Product 2	Low Pressure
585	Product 2	Low Temperature
586	Product 2	Product Zero Flow
587	Product 2	Product Overrun
588	Product 2	Block Valve Feedback
589	Product 2	Blend High
590	Product 2	Blend Low
591	Product 2	Product Stop
640	Product 3	Product Program Error
641	Product 3	Back Pressure

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
642	Product 3	High Density
643	Product 3	High Flow
644	Product 3	High Pressure
645	Product 3	High Temperature
646	Product 3	Low Density
647	Product 3	Low Flow
648	Product 3	Low Pressure
649	Product 3	Low Temperature
650	Product 3	Product Zero Flow
651	Product 3	Product Overrun
652	Product 3	Block Valve Feedback
653	Product 3	Blend High
654	Product 3	Blend Low
655	Product 3	Product Stop
704	Product 4	Product Program Error
705	Product 4	Back Pressure
706	Product 4	High Density
707	Product 4	High Flow
708	Product 4	High Pressure
709	Product 4	High Temperature
710	Product 4	Low Density
711	Product 4	Low Flow
712	Product 4	Low Pressure
713	Product 4	Low Temperature
714	Product 4	Product Zero Flow
715	Product 4	Product Overrun
716	Product 4	Block Valve Feedback
717	Product 4	Blend High
718	Product 4	Blend Low
719	Product 4	Product Stop
768	Product 5	Product Program Error
769	Product 5	Back Pressure
770	Product 5	High Density
771	Product 5	High Flow
772	Product 5	High Pressure
773	Product 5	High Temperature



## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
774	Product 5	Low Density
775	Product 5	Low Flow
776	Product 5	Low Pressure
777	Product 5	Low Temperature
778	Product 5	Product Zero Flow
779	Product 5	Product Overrun
780	Product 5	Block Valve Feedback
781	Product 5	Blend High
782	Product 5	Blend Low
783	Product 5	Product Stop
832	Product 6	Product Program Error
833	Product 6	Back Pressure
834	Product 6	High Density
835	Product 6	High Flow
836	Product 6	High Pressure
837	Product 6	High Temperature
838	Product 6	Low Density
839	Product 6	Low Flow
840	Product 6	Low Pressure
841	Product 6	Low Temperature
842	Product 6	Product Zero Flow
843	Product 6	Product Overrun
844	Product 6	Block Valve Feedback
845	Product 6	Blend High
846	Product 6	Blend Low
847	Product 6	Product Stop
896	Injector 1	Additive Feedback Error
897	Injector 1	Additive Communications
898	Injector 1	Low Additive
899	Injector 1	Additive Pulse Excess
900	Injector 1	Additive No Pulses
901	Injector 1	Additive Frequency
902	Injector 1	Unauthorize Failed
903	Injector 1	General Additive Alarm
904	Injector 1	Overrev Injector
905	Injector 1	Command Refused

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
906	Injector 1	Autodetect Failed
907	Injector 1	Additive High Temperature
908	Injector 1	Additive Low Temperature
909	Injector 1	Additive Temperature Probe Failure
910	Injector 1	Flow Control Additive Pulse Security
911	Injector 1	Flow Control Additive Transmitter Integrity
912	Injector 1	Additive Comm Totals
960	Injector 2	Additive Feedback Error
961	Injector 2	Additive Communications
962	Injector 2	Low Additive
963	Injector 2	Additive Pulse Excess
964	Injector 2	Additive No Pulses
965	Injector 2	Additive Frequency
966	Injector 2	Unauthorize Failed
967	Injector 2	General Additive Alarm
968	Injector 2	Overrev Injector
969	Injector 2	Command Refused
970	Injector 2	Autodetect Failed
971	Injector 2	Additive High Temperature
972	Injector 2	Additive Low Temperature
973	Injector 2	Additive Temperature Probe Failure
974	Injector 2	Flow Control Additive Pulse Security
975	Injector 2	Flow Control Additive Transmitter Integrity
1024	Injector 3	Additive Feedback Error
1025	Injector 3	Additive Communications
1026	Injector 3	Low Additive
1027	Injector 3	Additive Pulse Excess
1028	Injector 3	Additive No Pulses
1029	Injector 3	Additive Frequency
1030	Injector 3	Unauthorize Failed
1031	Injector 3	General Additive Alarm
1032	Injector 3	Overrev Injector
1033	Injector 3	Command Refused
1034	Injector 3	Autodetect Failed
1035	Injector 3	Additive High Temperature
1036	Injector 3	Additive Low Temperature

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1037	Injector 3	Additive Temperature Probe Failure
1038	Injector 3	Flow Control Additive Pulse Security
1039	Injector 3	Flow Control Additive Transmitter Integrity
1088	Injector 4	Additive Feedback Error
1089	Injector 4	Additive Communications
1090	Injector 4	Low Additive
1091	Injector 4	Additive Pulse Excess
1092	Injector 4	Additive No Pulses
1093	Injector 4	Additive Frequency
1094	Injector 4	Unauthorize Failed
1095	Injector 4	General Additive Alarm
1096	Injector 4	Overrev Injector
1097	Injector 4	Command Refused
1098	Injector 4	Autodetect Failed
1099	Injector 4	Additive High Temperature
1100	Injector 4	Additive Low Temperature
1101	Injector 4	Additive Temperature Probe Failure
1102	Injector 4	Flow Control Additive Pulse Security
1103	Injector 4	Flow Control Additive Transmitter Integrity
1152	Injector 5	Additive Feedback Error
1153	Injector 5	Additive Communications
1154	Injector 5	Low Additive
1155	Injector 5	Additive Pulse Excess
1156	Injector 5	Additive No Pulses
1157	Injector 5	Additive Frequency
1158	Injector 5	Unauthorize Failed
1159	Injector 5	General Additive Alarm
1160	Injector 5	Overrev Injector
1161	Injector 5	Command Refused
1162	Injector 5	Autodetect Failed
1163	Injector 5	Reserved
1164	Injector 5	Reserved
1165	Injector 5	Reserved
1166	Injector 5	Reserved
1167	Injector 5	Reserved
1216	Injector 6	Additive Feedback Error

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1217	Injector 6	Additive Communications
1218	Injector 6	Low Additive
1219	Injector 6	Additive Pulse Excess
1220	Injector 6	Additive No Pulses
1221	Injector 6	Additive Frequency
1222	Injector 6	Unauthorize Failed
1223	Injector 6	General Additive Alarm
1224	Injector 6	Overrev Injector
1225	Injector 6	Command Refused
1226	Injector 6	Autodetect Failed
1227	Injector 6	Reserved
1228	Injector 6	Reserved
1229	Injector 6	Reserved
1230	Injector 6	Reserved
1231	Injector 6	Reserved
1280	Injector 7	Additive Feedback Error
1281	Injector 7	Additive Communications
1282	Injector 7	Low Additive
1283	Injector 7	Additive Pulse Excess
1284	Injector 7	Additive No Pulses
1285	Injector 7	Additive Frequency
1286	Injector 7	Unauthorize Failed
1287	Injector 7	General Additive Alarm
1288	Injector 7	Overrev Injector
1289	Injector 7	Command Refused
1290	Injector 7	Autodetect Failed
1291	Injector 7	Reserved
1292	Injector 7	Reserved
1293	Injector 7	Reserved
1294	Injector 7	Reserved
1295	Injector 7	Reserved
1344	Injector 8	Additive Feedback Error
1345	Injector 8	Additive Communications
1346	Injector 8	Low Additive
1347	Injector 8	Additive Pulse Excess
1348	Injector 8	Additive No Pulses

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1349	Injector 8	Additive Frequency
1350	Injector 8	Unauthorize Failed
1351	Injector 8	General Additive Alarm
1352	Injector 8	Overrev Injector
1353	Injector 8	Command Refused
1354	Injector 8	Autodetect Failed
1355	Injector 8	Reserved
1356	Injector 8	Reserved
1357	Injector 8	Reserved
1358	Injector 8	Reserved
1359	Injector 8	Reserved
1408	Injector 9	Additive Feedback Error
1409	Injector 9	Additive Communications
1410	Injector 9	Low Additive
1411	Injector 9	Additive Pulse Excess
1412	Injector 9	Additive No Pulses
1413	Injector 9	Additive Frequency
1414	Injector 9	Unauthorize Failed
1415	Injector 9	General Additive Alarm
1416	Injector 9	Overrev Injector
1417	Injector 9	Command Refused
1418	Injector 9	Autodetect Failed
1419	Injector 9	Reserved
1420	Injector 9	Reserved
1421	Injector 9	Reserved
1422	Injector 9	Reserved
1423	Injector 9	Reserved
1472	Injector 10	Additive Feedback Error
1473	Injector 10	Additive Communications
1474	Injector 10	Low Additive
1475	Injector 10	Additive Pulse Excess
1476	Injector 10	Additive No Pulses
1477	Injector 10	Additive Frequency
1478	Injector 10	Unauthorize Failed
1479	Injector 10	General Additive Alarm
1480	Injector 10	Overrev Injector

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1481	Injector 10	Command Refused
1482	Injector 10	Autodetect Failed
1483	Injector 10	Reserved
1484	Injector 10	Reserved
1485	Injector 10	Reserved
1486	Injector 10	Reserved
1487	Injector 10	Reserved
1536	Injector 11	Additive Feedback Error
1537	Injector 11	Additive Communications
1538	Injector 11	Low Additive
1539	Injector 11	Additive Pulse Excess
1540	Injector 11	Additive No Pulses
1541	Injector 11	Additive Frequency
1542	Injector 11	Unauthorize Failed
1543	Injector 11	General Additive Alarm
1544	Injector 11	Overrev Injector
1545	Injector 11	Command Refused
1546	Injector 11	Autodetect Failed
1547	Injector 11	Reserved
1548	Injector 11	Reserved
1549	Injector 11	Reserved
1550	Injector 11	Reserved
1551	Injector 11	Reserved
1600	Injector 12	Additive Feedback Error
1601	Injector 12	Additive Communications
1602	Injector 12	Low Additive
1603	Injector 12	Additive Pulse Excess
1604	Injector 12	Additive No Pulses
1605	Injector 12	Additive Frequency
1606	Injector 12	Unauthorize Failed
1607	Injector 12	General Additive Alarm
1608	Injector 12	Overrev Injector
1609	Injector 12	Command Refused
1610	Injector 12	Autodetect Failed
1611	Injector 12	Reserved
1612	Injector 12	Reserved

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1613	Injector 12	Reserved
1614	Injector 12	Reserved
1615	Injector 12	Reserved
1664	Injector 13	Additive Feedback Error
1665	Injector 13	Additive Communications
1666	Injector 13	Low Additive
1667	Injector 13	Additive Pulse Excess
1668	Injector 13	Additive No Pulses
1669	Injector 13	Additive Frequency
1670	Injector 13	Unauthorize Failed
1671	Injector 13	General Additive Alarm
1672	Injector 13	Overrev Injector
1673	Injector 13	Command Refused
1674	Injector 13	Autodetect Failed
1675	Injector 13	Reserved
1676	Injector 13	Reserved
1677	Injector 13	Reserved
1678	Injector 13	Reserved
1679	Injector 13	Reserved
1728	Injector 14	Additive Feedback Error
1729	Injector 14	Additive Communications
1730	Injector 14	Low Additive
1731	Injector 14	Additive Pulse Excess
1732	Injector 14	Additive No Pulses
1733	Injector 14	Additive Frequency
1734	Injector 14	Unauthorize Failed
1735	Injector 14	General Additive Alarm
1736	Injector 14	Overrev Injector
1737	Injector 14	Command Refused
1738	Injector 14	Autodetect Failed
1739	Injector 14	Reserved
1740	Injector 14	Reserved
1741	Injector 14	Reserved
1742	Injector 14	Reserved
1743	Injector 14	Reserved
1792	Injector 15	Additive Feedback Error

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1793	Injector 15	Additive Communications
1794	Injector 15	Low Additive
1795	Injector 15	Additive Pulse Excess
1796	Injector 15	Additive No Pulses
1797	Injector 15	Additive Frequency
1798	Injector 15	Unauthorize Failed
1799	Injector 15	General Additive Alarm
1800	Injector 15	Overrev Injector
1801	Injector 15	Command Refused
1802	Injector 15	Autodetect Failed
1803	Injector 15	Reserved
1804	Injector 15	Reserved
1805	Injector 15	Reserved
1806	Injector 15	Reserved
1807	Injector 15	Reserved
1856	Injector 16	Additive Feedback Error
1857	Injector 16	Additive Communications
1858	Injector 16	Low Additive
1859	Injector 16	Additive Pulse Excess
1860	Injector 16	Additive No Pulses
1861	Injector 16	Additive Frequency
1862	Injector 16	Unauthorize Failed
1863	Injector 16	General Additive Alarm
1864	Injector 16	Overrev Injector
1865	Injector 16	Command Refused
1866	Injector 16	Autodetect Failed
1867	Injector 16	Reserved
1868	Injector 16	Reserved
1869	Injector 16	Reserved
1870	Injector 16	Reserved
1871	Injector 16	Reserved
1920	Injector 17	Additive Feedback Error
1921	Injector 17	Additive Communications
1922	Injector 17	Low Additive
1923	Injector 17	Additive Pulse Excess
1924	Injector 17	Additive No Pulses



## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
1925	Injector 17	Additive Frequency
1926	Injector 17	Unauthorize Failed
1927	Injector 17	General Additive Alarm
1928	Injector 17	Overrev Injector
1929	Injector 17	Command Refused
1930	Injector 17	Autodetect Failed
1931	Injector 17	Reserved
1932	Injector 17	Reserved
1933	Injector 17	Reserved
1934	Injector 17	Reserved
1935	Injector 17	Reserved
1984	Injector 18	Additive Feedback Error
1985	Injector 18	Additive Communications
1986	Injector 18	Low Additive
1987	Injector 18	Additive Pulse Excess
1988	Injector 18	Additive No Pulses
1989	Injector 18	Additive Frequency
1990	Injector 18	Unauthorize Failed
1991	Injector 18	General Additive Alarm
1992	Injector 18	Overrev Injector
1993	Injector 18	Command Refused
1994	Injector 18	Autodetect Failed
1995	Injector 18	Reserved
1996	Injector 18	Reserved
1997	Injector 18	Reserved
1998	Injector 18	Reserved
1999	Injector 18	Reserved
2048	Injector 19	Additive Feedback Error
2049	Injector 19	Additive Communications
2050	Injector 19	Low Additive
2051	Injector 19	Additive Pulse Excess
2052	Injector 19	Additive No Pulses
2053	Injector 19	Additive Frequency
2054	Injector 19	Unauthorize Failed
2055	Injector 19	General Additive Alarm
2056	Injector 19	Overrev Injector

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
2057	Injector 19	Command Refused
2058	Injector 19	Autodetect Failed
2059	Injector 19	Reserved
2060	Injector 19	Reserved
2061	Injector 19	Reserved
2062	Injector 19	Reserved
2063	Injector 19	Reserved
2112	Injector 20	Additive Feedback Error
2113	Injector 20	Additive Communications
2114	Injector 20	Low Additive
2115	Injector 20	Additive Pulse Excess
2116	Injector 20	Additive No Pulses
2117	Injector 20	Additive Frequency
2118	Injector 20	Unauthorize Failed
2119	Injector 20	General Additive Alarm
2120	Injector 20	Overrev Injector
2121	Injector 20	Command Refused
2122	Injector 20	Autodetect Failed
2123	Injector 20	Reserved
2124	Injector 20	Reserved
2125	Injector 20	Reserved
2126	Injector 20	Reserved
2127	Injector 20	Reserved
2176	Injector 21	Additive Feedback Error
2177	Injector 21	Additive Communications
2178	Injector 21	Low Additive
2179	Injector 21	Additive Pulse Excess
2180	Injector 21	Additive No Pulses
2181	Injector 21	Additive Frequency
2182	Injector 21	Unauthorize Failed
2183	Injector 21	General Additive Alarm
2184	Injector 21	Overrev Injector
2185	Injector 21	Command Refused
2186	Injector 21	Autodetect Failed
2187	Injector 21	Reserved
2188	Injector 21	Reserved

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
2189	Injector 21	Reserved
2190	Injector 21	Reserved
2191	Injector 21	Reserved
2240	Injector 22	Additive Feedback Error
2241	Injector 22	Additive Communications
2242	Injector 22	Low Additive
2243	Injector 22	Additive Pulse Excess
2244	Injector 22	Additive No Pulses
2245	Injector 22	Additive Frequency
2246	Injector 22	Unauthorize Failed
2247	Injector 22	General Additive Alarm
2248	Injector 22	Overrev Injector
2249	Injector 22	Command Refused
2250	Injector 22	Autodetect Failed
2251	Injector 22	Reserved
2252	Injector 22	Reserved
2253	Injector 22	Reserved
2254	Injector 22	Reserved
2255	Injector 22	Reserved
2304	Injector 23	Additive Feedback Error
2305	Injector 23	Additive Communications
2306	Injector 23	Low Additive
2307	Injector 23	Additive Pulse Excess
2308	Injector 23	Additive No Pulses
2309	Injector 23	Additive Frequency
2310	Injector 23	Unauthorize Failed
2311	Injector 23	General Additive Alarm
2312	Injector 23	Overrev Injector
2313	Injector 23	Command Refused
2314	Injector 23	Autodetect Failed
2315	Injector 23	Reserved
2316	Injector 23	Reserved
2317	Injector 23	Reserved
2318	Injector 23	Reserved
2319	Injector 23	Reserved
2368	Injector 24	Additive Feedback Error

## Section III – Table for Function 01, 05, 15 Read/Write Coil

Modbus Coil #	Alarm Area	Data Point
2369	Injector 24	Additive Communications
2370	Injector 24	Low Additive
2371	Injector 24	Additive Pulse Excess
2372	Injector 24	Additive No Pulses
2373	Injector 24	Additive Frequency
2374	Injector 24	Unauthorize Failed
2375	Injector 24	General Additive Alarm
2376	Injector 24	Overrev Injector
2377	Injector 24	Command Refused
2378	Injector 24	Autodetect Failed
2379	Injector 24	Reserved
2380	Injector 24	Reserved
2381	Injector 24	Reserved
2382	Injector 24	Reserved
2383	Injector 24	Reserved
2624	Meter 5	Meter Program Error
2625	Meter 5	Transmitter Integrity
2626	Meter 5	Pulse Security
2627	Meter 5	Valve Fault
2628	Meter 5	Temperature Transducer Failure
2629	Meter 5	Pressure Transducer Failure
2630	Meter 5	Density Transducer Failure
2631	Meter 5	Turbine Meter Alarm
2632	Meter 5	Mass Meter Communications
2633	Meter 5	Mass Meter Overdrive
2634	Meter 5	Mass Meter Tube Fail
2688	Meter 6	Meter Program Error
2689	Meter 6	Transmitter Integrity
2690	Meter 6	Pulse Security
2691	Meter 6	Valve Fault
2692	Meter 6	Temperature Transducer Failure
2693	Meter 6	Pressure Transducer Failure
2694	Meter 6	Density Transducer Failure
2695	Meter 6	Turbine Meter Alarm
2696	Meter 6	Mass Meter Communications
2697	Meter 6	Mass Meter Overdrive

## Section III – Table for Function 01, 05, 15 Read/Write Coil

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Modbus Coil #	Alarm Area	Data Point
2698	Meter 6	Mass Meter Tube Fail

## Section IV – Map of Function 02 Read Input Status

### ***Map of Function 02 – Read Information Bits (Read Input Status)***

**Action: Read status flag bits**

These data points return various run data status bits as described below. For digital inputs, a 0 state indicates the input is not active. A 1 state indicates the input is active. For internal status bits, a 0 state indicates the condition is not present, a 1 state indicates the condition is present.

Some sample points:

<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>
Digital I/O	Input #1 Status (Register 0)	Not active	Active
Alarms	Powerfail Alarm (Register 138)	OK	Alarm
System Info	In program mode (Register 4096)	No	Yes
Transaction Info	AccuLoad authorized (Register 4160)	No	Yes
Bay Run	Transaction in Progress (4224)	No	Yes

<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>
Digital I/O	Input #1	no action	no action
System Info	in program mode	no	yes
System Info	checking entries	no	yes
System Info	program value changed	no	yes
System Info	power fail occurred	no	yes
System Info	printing in progress	no	yes
System Info	in standby mode	no	yes
System Info	card status (A)	no	yes
System Info	card valid (A)	no	yes
System Info	card status (B)	no	yes
System Info	card valid (B)	no	yes
Transaction Info	AccuLoad authorized	no	yes
Transaction Info	AccuLoad released	no	yes
Transaction Info	transaction in progress	no	yes
Transaction Info	batch done	no	yes
Transaction Info	transaction done	no	yes
Transaction Info	keypad data pending	no	yes
Transaction Info	delayed prompt in effect	no	yes
Transaction Info	display message timed out	no	yes
Transaction Info	alarm condition	no	yes
Transaction Info	start stop delay	no	yes
Transaction Info	injectors authorized	no	yes
Transaction Info	proving in progress	no	yes

## Section IV – Map of Function 02 Read Input Status

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<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>
Transaction Info	product flowing	no	yes
Transaction Info	permissive delay in effect	no	yes
Transaction Info	standby transactions locked	no	yes
Transaction Info	storage full	no	yes
Transaction Info	batch presetting in progress	no	yes
Bay Run	transaction in progress	no	yes
Bay Run	transaction done	no	yes
Bay Run	standby lock in effect	no	yes
Bay Run	storage full	no	yes

## Section IV – Map of Function 02 Read Input Status

### Digital I/O Point States

*Note: These registers correspond to Boolean data*

Modbus Address	Data Set	Data Point	0 State	1 State
0	Digital I/O	Input #1	no action	no action
1	Digital I/O	Input #2	no action	no action
2	Digital I/O	Input #3	no action	no action
3	Digital I/O	Input #4	no action	no action
4	Digital I/O	Input #5	no action	no action
5	Digital I/O	Input #6	no action	no action
6	Digital I/O	Input #7	no action	no action
7	Digital I/O	Input #8	no action	no action
8	Digital I/O	Input #9	no action	no action
9	Digital I/O	Input #10	no action	no action
10	Digital I/O	Input #11	no action	no action
11	Digital I/O	Input #12	no action	no action
12	Digital I/O	Input #13	no action	no action
13	Digital I/O	Input #14	no action	no action
14	Digital I/O	Input #15	no action	no action
15	Digital I/O	Input #16 (BIO 1, if configured)	no action	no action
16	Digital I/O	Input #17 (BIO 2, if configured)	no action	no action
17	Digital I/O	Input #18 (BIO 3, if configured)	no action	no action
18	Digital I/O	Input #19 (BIO 4, if configured)	no action	no action
19	Digital I/O	Input #20 (BIO 5, if configured)	no action	no action
20	Digital I/O	Input #21 (BIO 6, if configured)	no action	no action
21	Digital I/O	Input #22 (BIO 7, if configured)	no action	no action
22	Digital I/O	Input #23 (BIO 8, if configured)	no action	no action
23	Digital I/O	Input #24 (AICB 1 In 1)	no action	no action
24	Digital I/O	Input #25 (AICB 1 In 2)	no action	no action
25	Digital I/O	Input #26 (AICB 1 In 3)	no action	no action
26	Digital I/O	Input #27 (AICB 1 In 4)	no action	no action
27	Digital I/O	Input #28 (AICB 1 In 5)	no action	no action
28	Digital I/O	Input #29 (AICB 1 In 6)	no action	no action
29	Digital I/O	Input #30 (AICB 1 In 7)	no action	no action
30	Digital I/O	Input #31 (AICB 1 In 8)	no action	no action
31	Digital I/O	Input #32 (AICB 1 In 9)	no action	no action



## Section IV – Map of Function 02 Read Input Status

Modbus Address	Data Set	Data Point	0 State	1 State
32	Digital I/O	Input #33 (AICB 1 In 10)	no action	no action
33	Digital I/O	Input #34 (AICB 2 In 1)	no action	no action
34	Digital I/O	Input #35 (AICB 2 In 2)	no action	no action
35	Digital I/O	Input #36 (AICB 2 In 3)	no action	no action
36	Digital I/O	Input #37 (AICB 2 In 4)	no action	no action
37	Digital I/O	Input #38 (AICB 2 In 5)	no action	no action
38	Digital I/O	Input #39 (AICB 2 In 6)	no action	no action
39	Digital I/O	Input #40 (AICB 2 In 7)	no action	no action
40	Digital I/O	Input #41 (AICB 2 In 8)	no action	no action
41	Digital I/O	Input #42 (AICB 2 In 9)	no action	no action
42	Digital I/O	Input #43 (AICB 2 In 10)	no action	no action
43	Digital I/O	Output #1	off	on
44	Digital I/O	Output #2	off	on
45	Digital I/O	Output #3	off	on
46	Digital I/O	Output #4	off	on
47	Digital I/O	Output #5	off	on
48	Digital I/O	Output #6	off	on
49	Digital I/O	Output #7	off	on
50	Digital I/O	Output #8	off	on
51	Digital I/O	Output #9	off	on
52	Digital I/O	Output #10	off	on
53	Digital I/O	Output #11	off	on
54	Digital I/O	Output #12	off	on
55	Digital I/O	Output #13	off	on
56	Digital I/O	Output #14	off	on
57	Digital I/O	Output #15	off	on
58	Digital I/O	Output #16	off	on
59	Digital I/O	Output #17	off	on
60	Digital I/O	Output #18	off	on
61	Digital I/O	Output #19	off	on
62	Digital I/O	Output #20	off	on
63	Digital I/O	Output #21	off	on
64	Digital I/O	Output #22	off	on
65	Digital I/O	Output #23	off	on

## Section IV – Map of Function 02 Read Input Status

Modbus Address	Data Set	Data Point	0 State	1 State
66	Digital I/O	Output #24	off	on
67	Digital I/O	Output #25	off	on
68	Digital I/O	Output #26	off	on
69	Digital I/O	Output #27	off	on
70	Digital I/O	Output #28	off	on
71	Digital I/O	Output #29	off	on
72	Digital I/O	Output #30	off	on
73	Digital I/O	Output #31 (BIO 1, if configured)	off	on
74	Digital I/O	Output #32 (BIO 2, if configured)	off	on
75	Digital I/O	Output #33 (BIO 3, if configured)	off	on
76	Digital I/O	Output #34 (BIO 4, if configured)	off	on
77	Digital I/O	Output #35 (BIO 5, if configured)	off	on
78	Digital I/O	Output #36 (BIO 6, if configured)	off	on
79	Digital I/O	Output #37 (BIO 7, if configured)	off	on
80	Digital I/O	Output #38 (BIO 8, if configured)	off	on
81	Digital I/O	Output #39 (AICB 1 Out 1)	off	on
82	Digital I/O	Output #40 (AICB 1 Out 2)	off	on
83	Digital I/O	Output #41 (AICB 1 Out 3)	off	on
84	Digital I/O	Output #42 (AICB 1 Out 4)	off	on
85	Digital I/O	Output #43 (AICB 1 Out 5)	off	on
86	Digital I/O	Output #44 (AICB 1 Out 6)	off	on
87	Digital I/O	Output #45 (AICB 1 Out 7)	off	on
88	Digital I/O	Output #46 (AICB 1 Out 8)	off	on
89	Digital I/O	Output #47 (AICB 1 Out 9)	off	on
90	Digital I/O	Output #48 (AICB 1 Out 10)	off	on
91	Digital I/O	Output #49 (AICB 1 Out 11)	off	on
92	Digital I/O	Output #50 (AICB 1 Out 12)	off	on
93	Digital I/O	Output #51 (AICB 1 Out 13)	off	on
94	Digital I/O	Output #52 (AICB 1 Out 14)	off	on
95	Digital I/O	Output #53 (AICB 1 Out 15)	off	on
96	Digital I/O	Output #54 (AICB 1 Out 16)	off	on
97	Digital I/O	Output #55 (AICB 1 Out 17)	off	on
98	Digital I/O	Output #56 (AICB 1 Out 18)	off	on
99	Digital I/O	Output #57 (AICB 1 Out 19)	off	on

Modbus	Data Set	Data Point	0 State	1 State
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## Section IV – Map of Function 02 Read Input Status

Address				
100	Digital I/O	Output #58 (AICB 1 Out 20)	off	on
101	Digital I/O	Output #59 (AICB 2 Out 1)	off	on
102	Digital I/O	Output #60 (AICB 2 Out 2)	off	on
103	Digital I/O	Output #61 (AICB 2 Out 3)	off	on
104	Digital I/O	Output #62 (AICB 2 Out 4)	off	on
105	Digital I/O	Output #63 (AICB 2 Out 5)	off	on
106	Digital I/O	Output #64 (AICB 2 Out 6)	off	on
107	Digital I/O	Output #65 (AICB 2 Out 7)	off	on
108	Digital I/O	Output #66 (AICB 2 Out 8)	off	on
109	Digital I/O	Output #67 (AICB 2 Out 9)	off	on
110	Digital I/O	Output #68 (AICB 2 Out 10)	off	on
111	Digital I/O	Output #69 (AICB 2 Out 11)	off	on
112	Digital I/O	Output #70 (AICB 2 Out 12)	off	on
113	Digital I/O	Output #71 (AICB 2 Out 13)	off	on
114	Digital I/O	Output #72 (AICB 2 Out 14)	off	on
115	Digital I/O	Output #73 (AICB 2 Out 15)	off	on
116	Digital I/O	Output #74 (AICB 2 Out 16)	off	on
117	Digital I/O	Output #75 (AICB 2 Out 17)	off	on
118	Digital I/O	Output #76 (AICB 2 Out 18)	off	on
119	Digital I/O	Output #77 (AICB 2 Out 19)	off	on
120	Digital I/O	Output #78 (AICB 2 Out 20)	off	on

### Alarm Indicators

Modbus Address	Data Set	Data Point	0 State	1 State
128	System Alarms	rom bad	inactive	active
129	System Alarms	ram bad	inactive	active
130	System Alarms	flash error	inactive	active
131	System Alarms	powerup ram corrupt	inactive	active
132	System Alarms	powerup flash corrupt	inactive	active
133	System Alarms	watchdog error	inactive	active
134	System Alarms	system program error	inactive	active
135	System Alarms	eaai failure	inactive	active

Modbus Address	Data Set	Data Point	0 State	1 State
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## Section IV – Map of Function 02 Read Input Status

136	System Alarms	bse failure	inactive	active
137	System Alarms	passcodes reset	inactive	active
138	System Alarms	powerfail	inactive	active
139	System Alarms	communications error	inactive	active
140	System Alarms	civacon alarm	inactive	active
141	System Alarms	shared printer	inactive	active
142	System Alarms	PTB printer failure	inactive	active
143	System Alarms	user alarm 1	inactive	active
144	System Alarms	user alarm 2	inactive	active
145	System Alarms	user alarm 3	inactive	active
146	System Alarms	user alarm 4	inactive	active
147	System Alarms	user alarm 5	inactive	active
148	System Alarms	user alarm 6	inactive	active
149	System Alarms	user alarm 7	inactive	active
150	System Alarms	user alarm 8	inactive	active
151	System Alarms	user alarm 9	inactive	active
152	System Alarms	user alarm 10	inactive	active
153	System Alarms	Add-Pak #1 Powerfail	inactive	active
154	System Alarms	Add-Pak #2 Powerfail	inactive	active
155	System Alarms	Add-Pak #1 Diagnostic	inactive	active
156	System Alarms	Add-Pak #2 Diagnostic	inactive	active
157	System Alarms	AICB #1 Auto-Detect Failed	inactive	active
158	System Alarms	AICB #2 Auto-Detect Failed	inactive	active
159	System Alarms	AICB #1 Comm Failed	inactive	active
160	System Alarms	AICB #2 Comm Failed	inactive	active
161	System Alarms	DA: Display Failure	inactive	active
162	System Alarms	MMI Comm Failure	inactive	active
163	System Alarms	MMI Excess Active Arms	inactive	active
164	System Alarms	DA: Data Retention	inactive	active
165	System Alarms	CF ComFlash	inactive	active
166	System Alarms	NP: Network Printer	inactive	active
167	System Alarms	FA: Sening Cop Alarm	inactive	active
192	Arm Alarms	arm program error	inactive	active
194	Arm Alarms	system zero flow	inactive	active
193	Arm Alarms	system overrun	inactive	active
195	Arm Alarms	ticket alarm	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

196	Arm Alarms	product clean line	inactive	active
197	Arm Alarms	additive clean line	inactive	active
198	Arm Alarms	storage full	inactive	active
199	Arm Alarms	DE head	inactive	active
200	Arm Alarms	Card Removed	Inactive	active
256	Meter 1 Alarms	meter program error	inactive	active
257	Meter 1 Alarms	transmitter integrity	inactive	active
258	Meter 1 Alarms	pulse security	inactive	active
259	Meter 1 Alarms	valve fault	inactive	active
260	Meter 1 Alarms	temperature transducer failure	inactive	active
261	Meter 1 Alarms	pressure transducer failure	inactive	active
262	Meter 1 Alarms	density transducer failure	inactive	active
263	Meter 1 Alarms	turbine meter alarm	inactive	active
264	Meter 1 Alarms	mass meter communications	inactive	active
265	Meter 1 Alarms	mass meter overdrive	inactive	active
266	Meter 1 Alarms	mass meter tube fail	inactive	active
320	Meter 2 Alarms	meter program error	inactive	active
321	Meter 2 Alarms	transmitter integrity	inactive	active
322	Meter 2 Alarms	pulse security	inactive	active
323	Meter 2 Alarms	valve fault	inactive	active
324	Meter 2 Alarms	temperature transducer failure	inactive	active
325	Meter 2 Alarms	pressure transducer failure	inactive	active
326	Meter 2 Alarms	density transducer failure	inactive	active
327	Meter 2 Alarms	turbine meter alarm	inactive	active
328	Meter 2 Alarms	mass meter communications	inactive	active
329	Meter 2 Alarms	mass meter overdrive	inactive	active
330	Meter 2 Alarms	mass meter tube fail	inactive	active
384	Meter 3 Alarms	meter program error	inactive	active
385	Meter 3 Alarms	transmitter integrity	inactive	active
386	Meter 3 Alarms	pulse security	inactive	active
387	Meter 3 Alarms	valve fault	inactive	active
388	Meter 3 Alarms	temperature transducer failure	inactive	active
389	Meter 3 Alarms	pressure transducer failure	inactive	active
390	Meter 3 Alarms	density transducer failure	inactive	active
391	Meter 3 Alarms	turbine meter alarm	inactive	active
392	Meter 3 Alarms	mass meter communications	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

393	Meter 3 Alarms	mass meter overdrive	inactive	active
394	Meter 3 Alarms	mass meter tube fail	inactive	active
448	Meter 4 Alarms	meter program error	inactive	active
449	Meter 4 Alarms	transmitter integrity	inactive	active
450	Meter 4 Alarms	pulse security	inactive	active
451	Meter 4 Alarms	valve fault	inactive	active
452	Meter 4 Alarms	temperature transducer failure	inactive	active
453	Meter 4 Alarms	pressure transducer failure	inactive	active
454	Meter 4 Alarms	density transducer failure	inactive	active
455	Meter 4 Alarms	turbine meter alarm	inactive	active
456	Meter 4 Alarms	mass meter communications	inactive	active
457	Meter 4 Alarms	mass meter overdrive	inactive	active
458	Meter 4 Alarms	mass meter tube fail	inactive	active
512	Product 1 Alarms	product program error	inactive	active
513	Product 1 Alarms	back pressure	inactive	active
514	Product 1 Alarms	high density	inactive	active
515	Product 1 Alarms	high flow	inactive	active
516	Product 1 Alarms	high pressure	inactive	active
517	Product 1 Alarms	high temperature	inactive	active
518	Product 1 Alarms	low density	inactive	active
519	Product 1 Alarms	low flow	inactive	active
520	Product 1 Alarms	low pressure	inactive	active
521	Product 1 Alarms	low temperature	inactive	active
522	Product 1 Alarms	product zero flow	inactive	active
523	Product 1 Alarms	product overrun	inactive	active
524	Product 1 Alarms	block valve	inactive	active
525	Product 1 Alarms	blend high	inactive	active
526	Product 1 Alarms	blend low	inactive	active
527	Product 1 Alarms	product stop	inactive	active
572	Product 1 Alarms	product stop	inactive	active
576	Product 2 Alarms	product program error	inactive	active
577	Product 2 Alarms	back pressure	inactive	active
578	Product 2 Alarms	high density	inactive	active
579	Product 2 Alarms	high flow	inactive	active
580	Product 2 Alarms	high pressure	inactive	active
581	Product 2 Alarms	high temperature	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

582	Product 2 Alarms	low density	inactive	active
583	Product 2 Alarms	low flow	inactive	active
584	Product 2 Alarms	low pressure	inactive	active
585	Product 2 Alarms	low temperature	inactive	active
586	Product 2 Alarms	product zero flow	inactive	active
587	Product 2 Alarms	product overrun	inactive	active
588	Product 2 Alarms	block valve	inactive	active
589	Product 2 Alarms	blend high	inactive	active
590	Product 2 Alarms	blend low	inactive	active
591	Product 2 Alarms	product stop	inactive	active
640	Product 3 Alarms	product program error	inactive	active
641	Product 3 Alarms	back pressure	inactive	active
642	Product 3 Alarms	high density	inactive	active
643	Product 3 Alarms	high flow	inactive	active
644	Product 3 Alarms	high pressure	inactive	active
645	Product 3 Alarms	high temperature	inactive	active
646	Product 3 Alarms	low density	inactive	active
647	Product 3 Alarms	low flow	inactive	active
648	Product 3 Alarms	low pressure	inactive	active
649	Product 3 Alarms	low temperature	inactive	active
650	Product 3 Alarms	product zero flow	inactive	active
651	Product 3 Alarms	product overrun	inactive	active
652	Product 3 Alarms	block valve	inactive	active
653	Product 3 Alarms	blend high	inactive	active
654	Product 3 Alarms	blend low	inactive	active
655	Product 3 Alarms	product stop	inactive	active
704	Product 4 Alarms	product program error	inactive	active
705	Product 4 Alarms	back pressure	inactive	active
706	Product 4 Alarms	high density	inactive	active
707	Product 4 Alarms	high flow	inactive	active
708	Product 4 Alarms	high pressure	inactive	active
709	Product 4 Alarms	high temperature	inactive	active
710	Product 4 Alarms	low density	inactive	active
711	Product 4 Alarms	low flow	inactive	active
712	Product 4 Alarms	low pressure	inactive	active
713	Product 4 Alarms	low temperature	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

714	Product 4 Alarms	product zero flow	inactive	active
715	Product 4 Alarms	product overrun	inactive	active
716	Product 4 Alarms	block valve	inactive	active
717	Product 4 Alarms	blend high	inactive	active
718	Product 4 Alarms	blend low	inactive	active
719	Product 4 Alarms	product stop	inactive	active
768	Product 5 Alarms	product program error	inactive	active
769	Product 5 Alarms	back pressure	inactive	active
770	Product 5 Alarms	high density	inactive	active
771	Product 5 Alarms	high flow	inactive	active
772	Product 5 Alarms	high pressure	inactive	active
773	Product 5 Alarms	high temperature	inactive	active
774	Product 5 Alarms	low density	inactive	active
775	Product 5 Alarms	low flow	inactive	active
776	Product 5 Alarms	low pressure	inactive	active
777	Product 5 Alarms	low temperature	inactive	active
778	Product 5 Alarms	product zero flow	inactive	active
779	Product 5 Alarms	product overrun	inactive	active
780	Product 5 Alarms	block valve	inactive	active
781	Product 5 Alarms	blend high	inactive	active
782	Product 5 Alarms	blend low	inactive	active
783	Product 5 Alarms	product stop	inactive	active
832	Product 6 Alarms	product program error	inactive	active
833	Product 6 Alarms	back pressure	inactive	active
834	Product 6 Alarms	high density	inactive	active
835	Product 6 Alarms	high flow	inactive	active
836	Product 6 Alarms	high pressure	inactive	active
837	Product 6 Alarms	high temperature	inactive	active
838	Product 6 Alarms	low density	inactive	active
839	Product 6 Alarms	low flow	inactive	active
840	Product 6 Alarms	low pressure	inactive	active
841	Product 6 Alarms	low temperature	inactive	active
842	Product 6 Alarms	product zero flow	inactive	active
843	Product 6 Alarms	product overrun	inactive	active
844	Product 6 Alarms	block valve	inactive	active
845	Product 6 Alarms	blend high	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>



## Section IV – Map of Function 02 Read Input Status

846	Product 6 Alarms	blend low	inactive	active
847	Product 6 Alarms	product stop	inactive	active
896	Injector 1 Alarms	additive feedback error	inactive	active
897	Injector 1 Alarms	additive communications	inactive	active
898	Injector 1 Alarms	low additive	inactive	active
899	Injector 1 Alarms	additive pulse excess	inactive	active
900	Injector 1 Alarms	additive no pulses	inactive	active
901	Injector 1 Alarms	additive frequency	inactive	active
902	Injector 1 Alarms	comm authorize failed	inactive	active
903	Injector 1 Alarms	general additive alarm	inactive	active
904	Injector 1 Alarms	overrev injector	inactive	active
905	Injector 1 Alarms	command refused	inactive	active
906	Injector 1 Alarms	comm port autodetect failed	inactive	active
907	Injector 1 Alarms	additive high temperature	inactive	active
908	Injector 1 Alarms	additive low temperature	inactive	active
909	Injector 1 Alarms	additive temperature probe failure	inactive	active
910	Injector 1 Alarms	Flow Control Additive Pulse Security	inactive	active
911	Injector 1 Alarms	Flow Control Additive Transmitter Security	inactive	active
912	Injector 1 Alarms	additive comm totals	inactive	active
960	Injector 2 Alarms	additive feedback error	inactive	active
961	Injector 2 Alarms	additive communications	inactive	active
962	Injector 2 Alarms	low additive	inactive	active
963	Injector 2 Alarms	additive pulse excess	inactive	active
964	Injector 2 Alarms	additive no pulses	inactive	active
965	Injector 2 Alarms	additive frequency	inactive	active
966	Injector 2 Alarms	unauthorize failed	inactive	active
967	Injector 2 Alarms	general additive alarm	inactive	active
968	Injector 2 Alarms	overrev injector	inactive	active
969	Injector 2 Alarms	command refused	inactive	active
970	Injector 2 Alarms	comm port autodetect failed	inactive	active
971	Injector 2 Alarms	additive high temperature	inactive	active
972	Injector 2 Alarms	additive low temperature	inactive	active
973	Injector 2 Alarms	additive temperature probe failure	inactive	active
974	Injector 2 Alarms	Flow Control Additive Pulse Security	Inactive	active
975	Injector 2 Alarms	Flow Control Additive Transmitter Security	Inactive	active
1024	Injector 3 Alarms	additive feedback error	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

1025	Injector 3 Alarms	additive communications	inactive	active
1026	Injector 3 Alarms	low additive	inactive	active
1027	Injector 3 Alarms	additive pulse excess	inactive	active
1028	Injector 3 Alarms	additive no pulses	inactive	active
1029	Injector 3 Alarms	additive frequency	inactive	active
1030	Injector 3 Alarms	unauthorize failed	inactive	active
1031	Injector 3 Alarms	general additive alarm	inactive	active
1032	Injector 3 Alarms	overrev injector	inactive	active
1033	Injector 3 Alarms	command refused	inactive	active
1034	Injector 3 Alarms	comm port autodetect failed	inactive	active
1035	Injector 3 Alarms	additive high temperature	inactive	active
1036	Injector 3 Alarms	additive low temperature	inactive	active
1037	Injector 3 Alarms	additive temperature probe failure	inactive	active
1038	Injector 3 Alarms	Flow Control Additive Pulse Security	Inactive	active
1039	Injector 3 Alarms	Flow Control Additive Transmitter Security	Inactive	active
1088	Injector 4 Alarms	additive feedback error	inactive	active
1089	Injector 4 Alarms	additive communications	inactive	active
1090	Injector 4 Alarms	low additive	inactive	active
1091	Injector 4 Alarms	additive pulse excess	inactive	active
1092	Injector 4 Alarms	additive no pulses	inactive	active
1093	Injector 4 Alarms	additive frequency	inactive	active
1094	Injector 4 Alarms	unauthorize failed	inactive	active
1095	Injector 4 Alarms	general additive alarm	inactive	active
1096	Injector 4 Alarms	overrev injector	inactive	active
1097	Injector 4 Alarms	command refused	inactive	active
1098	Injector 4 Alarms	comm port autodetect failed	inactive	active
1099	Injector 4 Alarms	additive high temperature	inactive	active
1100	Injector 4 Alarms	additive low temperature	inactive	active
1101	Injector 4 Alarms	additive temperature probe failure	inactive	active
1102	Injector 4 Alarms	Flow Control Additive Pulse Security	Inactive	active
1103	Injector 4 Alarms	Flow Control Additive Transmitter Security	Inactive	active
1152	Injector 5 Alarms	additive feedback error	inactive	active
1153	Injector 5 Alarms	additive communications	inactive	active
1154	Injector 5 Alarms	low additive	inactive	active
1155	Injector 5 Alarms	additive pulse excess	inactive	active
1156	Injector 5 Alarms	additive no pulses	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

1157	Injector 5 Alarms	additive frequency	inactive	active
1158	Injector 5 Alarms	comm authorize failed	inactive	active
1159	Injector 5 Alarms	general additive alarm	inactive	active
1160	Injector 5 Alarms	overrev injector	inactive	active
1161	Injector 5 Alarms	command refused	inactive	active
1162	Injector 5 Alarms	comm port autodetect failed	inactive	active
1163	Injector 5 Alarms	Reserved	inactive	active
1164	Injector 5 Alarms	Reserved	inactive	active
1165	Injector 5 Alarms	Reserved	inactive	active
1166	Injector 5 Alarms	Reserved	inactive	active
1167	Injector 5 Alarms	Reserved	inactive	active
1216	Injector 6 Alarms	additive feedback error	inactive	active
1217	Injector 6 Alarms	additive communications	inactive	active
1218	Injector 6 Alarms	low additive	inactive	active
1219	Injector 6 Alarms	additive pulse excess	inactive	active
1220	Injector 6 Alarms	additive no pulses	inactive	active
1221	Injector 6 Alarms	additive frequency	inactive	active
1222	Injector 6 Alarms	comm authorize failed	inactive	active
1223	Injector 6 Alarms	general additive alarm	inactive	active
1224	Injector 6 Alarms	overrev injector	inactive	active
1225	Injector 6 Alarms	command refused	inactive	active
1226	Injector 6 Alarms	comm port autodetect failed	inactive	active
1227	Injector 6 Alarms	Reserved	inactive	active
1228	Injector 6 Alarms	Reserved	inactive	active
1229	Injector 6 Alarms	Reserved	inactive	active
1230	Injector 6 Alarms	Reserved	inactive	active
1231	Injector 6 Alarms	Reserved	inactive	active
1280	Injector 7 Alarms	additive feedback error	inactive	active
1281	Injector 7 Alarms	additive communications	inactive	active
1282	Injector 7 Alarms	low additive	inactive	active
1283	Injector 7 Alarms	additive pulse excess	inactive	active
1284	Injector 7 Alarms	additive no pulses	inactive	active
1285	Injector 7 Alarms	additive frequency	inactive	active
1286	Injector 7 Alarms	comm authorize failed	inactive	active
1287	Injector 7 Alarms	general additive alarm	inactive	active
1288	Injector 7 Alarms	overrev injector	inactive	active

Modbus Address	Data Set	Data Point	0 State	1 State
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## Section IV – Map of Function 02 Read Input Status

1289	Injector 7 Alarms	command refused	inactive	active
1290	Injector 7 Alarms	comm port autodetect failed	inactive	active
1291	Injector 7 Alarms	Reserved	inactive	active
1292	Injector 7 Alarms	Reserved	inactive	active
1293	Injector 7 Alarms	Reserved	inactive	active
1294	Injector 7 Alarms	Reserved	inactive	active
1295	Injector 7 Alarms	Reserved	inactive	active
1344	Injector 8 Alarms	additive feedback error	inactive	active
1345	Injector 8 Alarms	additive communications	inactive	active
1346	Injector 8 Alarms	low additive	inactive	active
1347	Injector 8 Alarms	additive pulse excess	inactive	active
1348	Injector 8 Alarms	additive no pulses	inactive	active
1349	Injector 8 Alarms	additive frequency	inactive	active
1350	Injector 8 Alarms	unauthorize failed	inactive	active
1351	Injector 8 Alarms	general additive alarm	inactive	active
1352	Injector 8 Alarms	overrev injector	inactive	active
1353	Injector 8 Alarms	command refused	inactive	active
1354	Injector 8 Alarms	comm port autodetect failed	inactive	active
1355	Injector 8 Alarms	Reserved	inactive	active
1356	Injector 8 Alarms	Reserved	inactive	active
1357	Injector 8 Alarms	Reserved	inactive	active
1358	Injector 8 Alarms	Reserved	inactive	active
1359	Injector 8 Alarms	Reserved	inactive	active
1408	Injector 9 Alarms	additive feedback error	inactive	active
1409	Injector 9 Alarms	additive communications	inactive	active
1410	Injector 9 Alarms	low additive	inactive	active
1411	Injector 9 Alarms	additive pulse excess	inactive	active
1412	Injector 9 Alarms	additive no pulses	inactive	active
1413	Injector 9 Alarms	additive frequency	inactive	active
1414	Injector 9 Alarms	unauthorize failed	inactive	active
1415	Injector 9 Alarms	general additive alarm	inactive	active
1416	Injector 9 Alarms	overrev injector	inactive	active
1417	Injector 9 Alarms	command refused	inactive	active
1418	Injector 9 Alarms	comm port autodetect failed	inactive	active
1419	Injector 9 Alarms	Reserved	inactive	active
1420	Injector 9 Alarms	Reserved	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

1421	Injector 9 Alarms	Reserved	inactive	active
1422	Injector 9 Alarms	Reserved	inactive	active
1423	Injector 9 Alarms	Reserved	inactive	active
1472	Injector 10 Alarms	additive feedback error	inactive	active
1473	Injector 10 Alarms	additive communications	inactive	active
1474	Injector 10 Alarms	low additive	inactive	active
1475	Injector 10 Alarms	additive pulse excess	inactive	active
1476	Injector 10 Alarms	additive no pulses	inactive	active
1477	Injector 10 Alarms	additive frequency	inactive	active
1478	Injector 10 Alarms	unauthorize failed	inactive	active
1479	Injector 10 Alarms	general additive alarm	inactive	active
1480	Injector 10 Alarms	overrev injector	inactive	active
1481	Injector 10 Alarms	command refused	inactive	active
1482	Injector 10 Alarms	comm port autodetect failed	inactive	active
1483	Injector 10 Alarms	Reserved	inactive	active
1484	Injector 10 Alarms	Reserved	inactive	active
1485	Injector 10 Alarms	Reserved	inactive	active
1486	Injector 10 Alarms	Reserved	inactive	active
1487	Injector 10 Alarms	Reserved	inactive	active
1536	Injector 11 Alarms	additive feedback error	inactive	active
1537	Injector 11 Alarms	additive communications	inactive	active
1538	Injector 11 Alarms	low additive	inactive	active
1539	Injector 11 Alarms	additive pulse excess	inactive	active
1540	Injector 11 Alarms	additive no pulses	inactive	active
1541	Injector 11 Alarms	additive frequency	inactive	active
1542	Injector 11 Alarms	comm authorize failed	inactive	active
1543	Injector 11 Alarms	general additive alarm	inactive	active
1544	Injector 11 Alarms	overrev injector	inactive	active
1545	Injector 11 Alarms	command refused	inactive	active
1546	Injector 11 Alarms	comm port autodetect failed	inactive	active
1547	Injector 11 Alarms	Reserved	inactive	active
1548	Injector 11 Alarms	Reserved	inactive	active
1549	Injector 11 Alarms	Reserved	inactive	active
1550	Injector 11 Alarms	Reserved	inactive	active
1551	Injector 11 Alarms	Reserved	inactive	active
1600	Injector 12 Alarms	additive feedback error	inactive	active

Modbus Address	Data Set	Data Point	0 State	1 State
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## Section IV – Map of Function 02 Read Input Status

1601	Injector 12 Alarms	additive communications	inactive	active
1602	Injector 12 Alarms	low additive	inactive	active
1603	Injector 12 Alarms	additive pulse excess	inactive	active
1604	Injector 12 Alarms	additive no pulses	inactive	active
1605	Injector 12 Alarms	additive frequency	inactive	active
1608	Injector 12 Alarms	overrev injector	inactive	active
1609	Injector 12 Alarms	command refused	inactive	active
1610	Injector 12 Alarms	comm port autodetect failed	inactive	active
1611	Injector 12 Alarms	Reserved	inactive	active
1612	Injector 12 Alarms	Reserved	inactive	active
1613	Injector 12 Alarms	Reserved	inactive	active
1614	Injector 12 Alarms	Reserved	inactive	active
1615	Injector 12 Alarms	Reserved	inactive	active
1664	Injector 13 Alarms	additive feedback error	inactive	active
1665	Injector 13 Alarms	additive communications	inactive	active
1666	Injector 13 Alarms	low additive	inactive	active
1667	Injector 13 Alarms	additive pulse excess	inactive	active
1668	Injector 13 Alarms	additive no pulses	inactive	active
1669	Injector 13 Alarms	additive frequency	inactive	active
1670	Injector 13 Alarms	comm authorize failed	inactive	active
1671	Injector 13 Alarms	general additive alarm	inactive	active
1672	Injector 13 Alarms	overrev injector	inactive	active
1673	Injector 13 Alarms	command refused	inactive	active
1674	Injector 13 Alarms	comm port autodetect failed	inactive	active
1675	Injector 13 Alarms	Reserved	inactive	active
1676	Injector 13 Alarms	Reserved	inactive	active
1677	Injector 13 Alarms	Reserved	inactive	active
1678	Injector 13 Alarms	Reserved	inactive	active
1679	Injector 13 Alarms	Reserved	inactive	active
1728	Injector 14 Alarms	additive feedback error	inactive	active
1729	Injector 14 Alarms	additive communications	inactive	active
1730	Injector 14 Alarms	low additive	inactive	active
1731	Injector 14 Alarms	additive pulse excess	inactive	active
1732	Injector 14 Alarms	additive no pulses	inactive	active
1733	Injector 14 Alarms	additive frequency	inactive	active
1734	Injector 14 Alarms	unauthorize failed	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

1735	Injector 14 Alarms	general additive alarm	inactive	active
1736	Injector 14 Alarms	overrev injector	inactive	active
1737	Injector 14 Alarms	command refused	inactive	active
1738	Injector 14 Alarms	comm port autodetect failed	inactive	active
1739	Injector 14 Alarms	Reserved	inactive	active
1740	Injector 14 Alarms	Reserved	inactive	active
1741	Injector 14 Alarms	Reserved	inactive	active
1742	Injector 14 Alarms	Reserved	inactive	active
1743	Injector 14 Alarms	Reserved	inactive	active
1792	Injector 15 Alarms	additive feedback error	inactive	active
1793	Injector 15 Alarms	additive communications	inactive	active
1794	Injector 15 Alarms	low additive	inactive	active
1795	Injector 15 Alarms	additive pulse excess	inactive	active
1796	Injector 15 Alarms	additive no pulses	inactive	active
1797	Injector 15 Alarms	additive frequency	inactive	active
1798	Injector 15 Alarms	unauthorize failed	inactive	active
1799	Injector 15 Alarms	general additive alarm	inactive	active
1800	Injector 15 Alarms	overrev injector	inactive	active
1801	Injector 15 Alarms	command refused	inactive	active
1802	Injector 15 Alarms	comm port autodetect failed	inactive	active
1803	Injector 15 Alarms	Reserved	inactive	active
1804	Injector 15 Alarms	Reserved	inactive	active
1805	Injector 15 Alarms	Reserved	inactive	active
1806	Injector 15 Alarms	Reserved	inactive	active
1807	Injector 15 Alarms	Reserved	inactive	active
1856	Injector 16 Alarms	additive feedback error	inactive	active
1857	Injector 16 Alarms	additive communications	inactive	active
1858	Injector 16 Alarms	low additive	inactive	active
1859	Injector 16 Alarms	additive pulse excess	inactive	active
1860	Injector 16 Alarms	additive no pulses	inactive	active
1861	Injector 16 Alarms	additive frequency	inactive	active
1862	Injector 16 Alarms	unauthorize failed	inactive	active
1863	Injector 16 Alarms	general additive alarm	inactive	active
1864	Injector 16 Alarms	overrev injector	inactive	active
1865	Injector 16 Alarms	command refused	inactive	active
1866	Injector 16 Alarms	comm port autodetect failed	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

1867	Injector 16 Alarms	Reserved	inactive	active
1868	Injector 16 Alarms	Reserved	inactive	active
1869	Injector 16 Alarms	Reserved	inactive	active
1870	Injector 16 Alarms	Reserved	inactive	active
1871	Injector 16 Alarms	Reserved	inactive	active
1920	Injector 17 Alarms	additive feedback error	inactive	active
1921	Injector 17 Alarms	additive communications	inactive	active
1922	Injector 17 Alarms	low additive	inactive	active
1923	Injector 17 Alarms	additive pulse excess	inactive	active
1924	Injector 17 Alarms	additive no pulses	inactive	active
1925	Injector 17 Alarms	additive frequency	inactive	active
1926	Injector 17 Alarms	unauthorize failed	inactive	active
1927	Injector 17 Alarms	general additive alarm	inactive	active
1928	Injector 17 Alarms	overrev injector	inactive	active
1929	Injector 17 Alarms	command refused	inactive	active
1930	Injector 17 Alarms	unauthorized port autodetect failed	inactive	active
1931	Injector 17 Alarms	Reserved	inactive	active
1932	Injector 17 Alarms	Reserved	inactive	active
1933	Injector 17 Alarms	Reserved	inactive	active
1934	Injector 17 Alarms	Reserved	inactive	active
1935	Injector 17 Alarms	Reserved	inactive	active
1984	Injector 18 Alarms	additive feedback error	inactive	active
1985	Injector 18 Alarms	additive communications	inactive	active
1986	Injector 18 Alarms	low additive	inactive	active
1987	Injector 18 Alarms	additive pulse excess	inactive	active
1988	Injector 18 Alarms	additive no pulses	inactive	active
1989	Injector 18 Alarms	additive frequency	inactive	active
1990	Injector 18 Alarms	unauthorized failed	inactive	active
1991	Injector 18 Alarms	general additive alarm	inactive	active
1992	Injector 18 Alarms	overrev injector	inactive	active
1993	Injector 18 Alarms	command refused	inactive	active
1994	Injector 18 Alarms	unauthorized port autodetect failed	inactive	active
1995	Injector 18 Alarms	Reserved	inactive	active
1996	Injector 18 Alarms	Reserved	inactive	active
1997	Injector 18 Alarms	Reserved	inactive	active
1998	Injector 18 Alarms	Reserved	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>



## Section IV – Map of Function 02 Read Input Status

1999	Injector 18 Alarms	Reserved	inactive	active
2048	Injector 19 Alarms	additive feedback error	inactive	active
2049	Injector 19 Alarms	additive communications	inactive	active
2050	Injector 19 Alarms	low additive	inactive	active
2051	Injector 19 Alarms	additive pulse excess	inactive	active
2052	Injector 19 Alarms	additive no pulses	inactive	active
2053	Injector 19 Alarms	additive frequency	inactive	active
2054	Injector 19 Alarms	unauthorized failed	inactive	active
2055	Injector 19 Alarms	general additive alarm	inactive	active
2056	Injector 19 Alarms	overrev injector	inactive	active
2057	Injector 19 Alarms	command refused	inactive	active
2058	Injector 19 Alarms	unauthorized port autodetect failed	inactive	active
2059	Injector 19 Alarms	Reserved	inactive	active
2060	Injector 19 Alarms	Reserved	inactive	active
2061	Injector 19 Alarms	Reserved	inactive	active
2062	Injector 19 Alarms	Reserved	inactive	active
2063	Injector 19 Alarms	Reserved	inactive	active
2112	Injector 20 Alarms	additive feedback error	inactive	active
2113	Injector 20 Alarms	additive communications	inactive	active
2114	Injector 20 Alarms	low additive	inactive	active
2115	Injector 20 Alarms	additive pulse excess	inactive	active
2116	Injector 20 Alarms	additive no pulses	inactive	active
2117	Injector 20 Alarms	additive frequency	inactive	active
2118	Injector 20 Alarms	unauthorized failed	inactive	active
2119	Injector 20 Alarms	general additive alarm	inactive	active
2120	Injector 20 Alarms	overrev injector	inactive	active
2121	Injector 20 Alarms	command refused	inactive	active
2122	Injector 20 Alarms	comm port autodetect failed	inactive	active
2123	Injector 20 Alarms	Reserved	inactive	active
2124	Injector 20 Alarms	Reserved	inactive	active
2125	Injector 20 Alarms	Reserved	inactive	active
2126	Injector 20 Alarms	Reserved	inactive	active
2127	Injector 20 Alarms	Reserved	inactive	active
2176	Injector 21 Alarms	additive feedback error	inactive	active
2177	Injector 21 Alarms	additive communications	inactive	active
2178	Injector 21 Alarms	low additive	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

2179	Injector 21 Alarms	additive pulse excess	inactive	active
2180	Injector 21 Alarms	additive no pulses	inactive	active
2181	Injector 21 Alarms	additive frequency	inactive	active
2182	Injector 21 Alarms	unauthorized failed	inactive	active
2183	Injector 21 Alarms	general additive alarm	inactive	active
2184	Injector 21 Alarms	overrev injector	inactive	active
2185	Injector 21 Alarms	command refused	inactive	active
2186	Injector 21 Alarms	comm port autodetect failed	inactive	active
2187	Injector 21 Alarms	Reserved	inactive	active
2188	Injector 21 Alarms	Reserved	inactive	active
2189	Injector 21 Alarms	Reserved	inactive	active
2190	Injector 21 Alarms	Reserved	inactive	active
2191	Injector 21 Alarms	Reserved	inactive	active
2240	Injector 22 Alarms	additive feedback error	inactive	active
2241	Injector 22 Alarms	additive communications	inactive	active
2242	Injector 22 Alarms	low additive	inactive	active
2243	Injector 22 Alarms	additive pulse excess	inactive	active
2244	Injector 22 Alarms	additive no pulses	inactive	active
2245	Injector 22 Alarms	additive frequency	inactive	active
2246	Injector 22 Alarms	unauthorized failed	inactive	active
2247	Injector 22 Alarms	general additive alarm	inactive	active
2248	Injector 22 Alarms	overrev injector	inactive	active
2249	Injector 22 Alarms	command refused	inactive	active
2250	Injector 22 Alarms	comm port autodetect failed	inactive	active
2251	Injector 22 Alarms	Reserved	inactive	active
2252	Injector 22 Alarms	Reserved	inactive	active
2253	Injector 22 Alarms	Reserved	inactive	active
2254	Injector 22 Alarms	Reserved	inactive	active
2255	Injector 22 Alarms	Reserved	inactive	active
2304	Injector 23 Alarms	additive feedback error	inactive	active
2305	Injector 23 Alarms	additive communications	inactive	active
2306	Injector 23 Alarms	low additive	inactive	active
2307	Injector 23 Alarms	additive pulse excess	inactive	active
2308	Injector 23 Alarms	additive no pulses	inactive	active
2309	Injector 23 Alarms	additive frequency	inactive	active
2310	Injector 23 Alarms	unauthorized failed	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

2311	Injector 23 Alarms	general additive alarm	inactive	active
2312	Injector 23 Alarms	overrev injector	inactive	active
2313	Injector 23 Alarms	command refused	inactive	active
2314	Injector 23 Alarms	comm port autodetect failed	inactive	active
2315	Injector 23 Alarms	Reserved	inactive	active
2316	Injector 23 Alarms	Reserved	inactive	active
2317	Injector 23 Alarms	Reserved	inactive	active
2318	Injector 23 Alarms	Reserved	inactive	active
2319	Injector 23 Alarms	Reserved	inactive	active
2368	Injector 24 Alarms	additive feedback error	inactive	active
2369	Injector 24 Alarms	additive communications	inactive	active
2370	Injector 24 Alarms	low additive	inactive	active
2371	Injector 24 Alarms	additive pulse excess	inactive	active
2372	Injector 24 Alarms	additive no pulses	inactive	active
2373	Injector 24 Alarms	additive frequency	inactive	active
2374	Injector 24 Alarms	comm authorized failed	inactive	active
2375	Injector 24 Alarms	general additive alarm	inactive	active
2376	Injector 24 Alarms	overrev injector	inactive	active
2377	Injector 24 Alarms	command refused	inactive	active
2378	Injector 24 Alarms	comm port autodetect failed	inactive	active
2379	Injector 24 Alarms	Reserved	inactive	active
2380	Injector 24 Alarms	Reserved	inactive	active
2381	Injector 24 Alarms	Reserved	inactive	active
2382	Injector 24 Alarms	Reserved	inactive	active
2383	Injector 24 Alarms	Reserved	inactive	active
2624	Meter 5 Alarms	meter program error	inactive	active
2625	Meter 5 Alarms	transmitter integrity	inactive	active
2626	Meter 5 Alarms	pulse security	inactive	active
2627	Meter 5 Alarms	valve fault	inactive	active
2628	Meter 5 Alarms	temperature transducer failure	inactive	active
2629	Meter 5 Alarms	pressure transducer failure	inactive	active
2630	Meter 5 Alarms	density transducer failure	inactive	active
2631	Meter 5 Alarms	turbine meter alarm	inactive	active
2632	Meter 5 Alarms	mass meter communications	inactive	active
2633	Meter 5 Alarms	mass meter overdrive	inactive	active
2634	Meter 3 Alarms	mass meter tube fail	inactive	active
<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>

## Section IV – Map of Function 02 Read Input Status

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2688	Meter 6 Alarms	meter program error	inactive	active
2689	Meter 6 Alarms	transmitter integrity	inactive	active
2690	Meter 6 Alarms	pulse security	inactive	active
2691	Meter 6 Alarms	valve fault	inactive	active
2692	Meter 6 Alarms	temperature transducer failure	inactive	active
2693	Meter 6 Alarms	pressure transducer failure	inactive	active
2694	Meter 6 Alarms	density transducer failure	inactive	active
2695	Meter 6 Alarms	turbine meter alarm	inactive	active
2696	Meter 6 Alarms	mass meter communications	inactive	active
2697	Meter 6 Alarms	mass meter overdrive	inactive	active
2698	Meter 6 Alarms	mass meter tube fail	inactive	active

## Section IV – Map of Function 02 Read Input Status

### *Status Flags*

<b>Modbus Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>0 State</b>	<b>1 State</b>
4096	System Info	in program mode	no	yes
4097	System Info	checking entries	no	yes
4098	System Info	program value changed	no	yes
4099	System Info	power fail occurred	no	yes
4100	System Info	printing in progress	no	yes
4101	System Info	in standby mode	no	yes
4102	System Info	Card Status (A)	no	yes
4103	System Info	Card Valid (A)	no	yes
4104	System Info	Card Status (B)	no	yes
4105	System Info	Card Valid (B)	no	yes
4160	Transaction Info	AccuLoad authorized	no	yes
4161	Transaction Info	AccuLoad released	no	yes
4162	Transaction Info	transaction in progress	no	yes
4163	Transaction Info	batch done	no	yes
4164	Transaction Info	transaction done	no	yes
4165	Transaction Info	keypad data pending	no	yes
4166	Transaction Info	delayed prompt in effect	no	yes
4167	Transaction Info	display message timed out	no	yes
4168	Transaction Info	alarm condition	no	yes
4169	Transaction Info	start stop delay	no	yes
4170	Transaction Info	injectors authorized	no	yes
4171	Transaction Info	proving in progress	no	yes
4172	Transaction Info	product flowing	no	yes
4173	Transaction Info	permissive delay in effect	no	yes
4174	Transaction Info	standby transactions locked	no	yes
4175	Transaction Info	storage full	no	yes
4176	Transaction Info	batch presetting in progress	no	yes
4177	Transaction Info	printer standby reports are locked	no	yes
4178	Transaction Info	Printer standby reports storage full	no	yes
4179	Transaction Info	Valve diagnostic new data available	No	Yes
4224	Bay Run Data	Transaction in progress	no	yes
4225	Bay Run Data	Transaction done	no	yes
4226	Bay Run Data	Standby lock in effect	no	yes
4227	Bay Run Data	Storage full	no	yes

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Map of Functions 03, 06 and 16 – Read/Write Control Register (Read/Preset Holding Registers)

*Note: These registers correspond to read/write program mode parameters (and others)*

Modbus Address	Ending Address	Data Set	Data Point	Data Type
0	1023	Extended Services	Inbound (command) buffer area	extended services packet (currently limited to 2048 bytes) plus size register

*Note: The registers in the shaded area are NOT database variables; they are control/test registers for Modbus setup and program mode access.*

2048		Program mode control	program mode exit (0=no op, 1=accept, 2=discard)	unsigned int (write only)
2049			program mode state (0=no, 1=yes, 2=checking crits)	unsigned int (read only)
2050			Program mode result (0=ok, 1=preempted, 2=crits, 3=reset)	unsigned int
2051			number of criticals	unsigned int (read only)
2052			arms in prog mode (bit map)	unsigned int (read only)
2104			endian control (0=big, 1=little 16, 2=little 8)	unsigned int
2106	2107		PI (3.14159.....)	single precision floating point
2108	2111		PI (3.14159.....)	double precision floating point
2112		System Commands	set user alarm (data indicates alarm number)	unsigned char
2113		System Commands	card reader command (data indicates flags)	unsigned char
2176	2177	Meter 1 Commands	Meter Signature	IEEE single precision float
2178	2179	Meter 1 Commands	Meter Signature Deviation	IEEE single precision float
2180	2181	Meter 1 Commands	Blade Signature	IEEE single precision float
2182	2183	Meter 1 Commands	Blade Signature Deviation	IEEE single precision float
2184	2185	Meter 1 Commands	Rotation Signature	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2186	2187	Meter 1 Commands	Rotation Signature Deviation	IEEE single precision float
2240	2241	Meter 2 Commands	Meter Signature	IEEE single precision float
2242	2243	Meter 2 Commands	Meter Signature Deviation	IEEE single precision float
2244	2245	Meter 2 Commands	Blade Signature	IEEE single precision float
2246	2247	Meter 2 Commands	Blade Signature Deviation	IEEE single precision float
2248	2249	Meter 2 Commands	Rotation Signature	IEEE single precision float
2250	2251	Meter 2 Commands	Rotation Signature Deviation	IEEE single precision float
2304	2305	Meter 3 Commands	Meter Signature	IEEE single precision float
2306	2307	Meter 3 Commands	Meter Signature Deviation	IEEE single precision float
2308	2309	Meter 3 Commands	Blade Signature	IEEE single precision float
2310	2311	Meter 3 Commands	Blade Signature Deviation	IEEE single precision float
2312	2313	Meter 3 Commands	Rotation Signature	IEEE single precision float
2314	2315	Meter 3 Commands	Rotation Signature Deviation	IEEE single precision float
2368	2369	Meter 4 Commands	Meter Signature	IEEE single precision float
2370	2371	Meter 4 Commands	Meter Signature Deviation	IEEE single precision float
2372	2373	Meter 4 Commands	Blade Signature	IEEE single precision float
2374	2375	Meter 4 Commands	Blade Signature Deviation	IEEE single precision float
2376	2377	Meter 4 Commands	Rotation Signature	IEEE single precision float
2378	2379	Meter 4 Commands	Rotation Signature Deviation	IEEE single precision float
2432		Meter 1 Commands	Turbine Meter Diagnostic Commands	unsigned character

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2433		Meter 2 Commands	Turbine Meter Diagnostic Commands	unsigned character
2434		Meter 3 Commands	Turbine Meter Diagnostic Commands	unsigned character
2435		Meter 4 Commands	Turbine Meter Diagnostic Commands	unsigned character
2436		Meter 5 Commands	Turbine Meter Diagnostic Commands	unsigned character
2437		Meter 6 Commands	Turbine Meter Diagnostic Commands	unsigned character
2496		Boolean Algebraic	set timer 1	unsigned integer
2497		Boolean Algebraic	set timer 2	unsigned integer
2498		Boolean Algebraic	set timer 3	unsigned integer
2499		Boolean Algebraic	set timer 4	unsigned integer
2500		Boolean Algebraic	set timer 5	unsigned integer
2501		Boolean Algebraic	set timer 6	unsigned integer
2502		Boolean Algebraic	set timer 7	unsigned integer
2503		Boolean Algebraic	set timer 8	unsigned integer
2504		Boolean Algebraic	set timer 9	unsigned integer
2505		Boolean Algebraic	set timer 10	unsigned integer
2506		Boolean Algebraic	set timer 11	unsigned integer
2507		Boolean Algebraic	set timer 12	unsigned integer
2508		Boolean Algebraic	set timer 13	unsigned integer
2509		Boolean Algebraic	set timer 14	unsigned integer
2510		Boolean Algebraic	set timer 15	unsigned integer



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2511		Boolean Algebraic	set timer 16	unsigned integer
2560	2561	Boolean Algebraic	user float 1	IEEE single precision float
2562	2563	Boolean Algebraic	user float 2	IEEE single precision float
2564	2565	Boolean Algebraic	user float 3	IEEE single precision float
2566	2567	Boolean Algebraic	user float 4	IEEE single precision float
2568	2569	Boolean Algebraic	user float 5	IEEE single precision float
2570	2571	Boolean Algebraic	user float 6	IEEE single precision float
2572	2573	Boolean Algebraic	user float 7	IEEE single precision float
2574	2575	Boolean Algebraic	user float 8	IEEE single precision float
2576	2577	Boolean Algebraic	user float 9	IEEE single precision float
2578	2579	Boolean Algebraic	user float 10	IEEE single precision float
2580	2581	Boolean Algebraic	user float 11	IEEE single precision float
2582	2583	Boolean Algebraic	user float 12	IEEE single precision float
2584	2585	Boolean Algebraic	user float 13	IEEE single precision float
2586	2587	Boolean Algebraic	user float 14	IEEE single precision float
2588	2589	Boolean Algebraic	user float 15	IEEE single precision float
2590	2591	Boolean Algebraic	user float 16	IEEE single precision float
2592	2593	Boolean Algebraic	user float 17	IEEE single precision float
2594	2595	Boolean Algebraic	user float 18	IEEE single precision float
2596	2597	Boolean Algebraic	user float 19	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2598	2599	Boolean Algebraic	user float 20	IEEE single precision float
2600	2601	Boolean Algebraic	user float 21	IEEE single precision float
2602	2603	Boolean Algebraic	user float 22	IEEE single precision float
2604	2605	Boolean Algebraic	user float 23	IEEE single precision float
2606	2607	Boolean Algebraic	user float 24	IEEE single precision float
2608	2609	Boolean Algebraic	user float 25	IEEE single precision float
2610	2611	Boolean Algebraic	user float 26	IEEE single precision float
2612	2613	Boolean Algebraic	user float 27	IEEE single precision float
2614	2615	Boolean Algebraic	user float 28	IEEE single precision float
2616	2617	Boolean Algebraic	user float 29	IEEE single precision float
2618	2619	Boolean Algebraic	user float 30	IEEE single precision float
2620	2621	Boolean Algebraic	user float 31	IEEE single precision float
2622	2623	Boolean Algebraic	user float 32	IEEE single precision float
2624	2625	Boolean Algebraic	user float 33	IEEE single precision float
2626	2627	Boolean Algebraic	user float 34	IEEE single precision float
2628	2629	Boolean Algebraic	user float 35	IEEE single precision float
2630	2631	Boolean Algebraic	user float 36	IEEE single precision float
2632	2633	Boolean Algebraic	user float 37	IEEE single precision float
2634	2635	Boolean Algebraic	user float 38	IEEE single precision float
2636	2637	Boolean Algebraic	user float 39	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2638	2639	Boolean Algebraic	user float 40	IEEE single precision float
2640	2641	Boolean Algebraic	user float 41	IEEE single precision float
2642	2643	Boolean Algebraic	user float 42	IEEE single precision float
2644	2645	Boolean Algebraic	user float 43	IEEE single precision float
2646	2647	Boolean Algebraic	user float 44	IEEE single precision float
2648	2649	Boolean Algebraic	user float 45	IEEE single precision float
2650	2651	Boolean Algebraic	user float 46	IEEE single precision float
2652	2653	Boolean Algebraic	user float 47	IEEE single precision float
2654	2655	Boolean Algebraic	user float 48	IEEE single precision float
2656	2657	Boolean Algebraic	user float 49	IEEE single precision float
2658	2659	Boolean Algebraic	user float 50	IEEE single precision float
2660	2661	Boolean Algebraic	user float 51	IEEE single precision float
2662	2663	Boolean Algebraic	user float 52	IEEE single precision float
2664	2665	Boolean Algebraic	user float 53	IEEE single precision float
2666	2667	Boolean Algebraic	user float 54	IEEE single precision float
2668	2669	Boolean Algebraic	user float 55	IEEE single precision float
2670	2671	Boolean Algebraic	user float 56	IEEE single precision float
2672	2673	Boolean Algebraic	user float 57	IEEE single precision float
2674	2675	Boolean Algebraic	user float 58	IEEE single precision float
2676	2677	Boolean Algebraic	user float 59	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2678	2679	Boolean Algebraic	user float 60	IEEE single precision float
2680	2681	Boolean Algebraic	user float 61	IEEE single precision float
2682	2683	Boolean Algebraic	user float 62	IEEE single precision float
2684	2685	Boolean Algebraic	user float 63	IEEE single precision float
2686	2687	Boolean Algebraic	user float 64	IEEE single precision float
2688	2689	Boolean Algebraic	user float 65	IEEE single precision float
2690	2691	Boolean Algebraic	user float 66	IEEE single precision float
2692	2693	Boolean Algebraic	user float 67	IEEE single precision float
2694	2695	Boolean Algebraic	user float 68	IEEE single precision float
2696	2697	Boolean Algebraic	user float 69	IEEE single precision float
2698	2699	Boolean Algebraic	user float 70	IEEE single precision float
2700	2701	Boolean Algebraic	user float 71	IEEE single precision float
2702	2703	Boolean Algebraic	user float 72	IEEE single precision float
2704	2705	Boolean Algebraic	user float 73	IEEE single precision float
2706	2707	Boolean Algebraic	user float 74	IEEE single precision float
2708	2709	Boolean Algebraic	user float 75	IEEE single precision float
2710	2711	Boolean Algebraic	user float 76	IEEE single precision float
2712	2713	Boolean Algebraic	user float 77	IEEE single precision float
2714	2715	Boolean Algebraic	user float 78	IEEE single precision float
2716	2717	Boolean Algebraic	user float 79	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2718	2719	Boolean Algebraic	user float 80	IEEE single precision float
2720	2721	Boolean Algebraic	user float 81	IEEE single precision float
2722	2723	Boolean Algebraic	user float 82	IEEE single precision float
2724	2725	Boolean Algebraic	user float 83	IEEE single precision float
2726	2727	Boolean Algebraic	user float 84	IEEE single precision float
2728	2729	Boolean Algebraic	user float 85	IEEE single precision float
2730	2731	Boolean Algebraic	user float 86	IEEE single precision float
2732	2733	Boolean Algebraic	user float 87	IEEE single precision float
2734	2735	Boolean Algebraic	user float 88	IEEE single precision float
2736	2737	Boolean Algebraic	user float 89	IEEE single precision float
2738	2739	Boolean Algebraic	user float 90	IEEE single precision float
2740	2741	Boolean Algebraic	user float 91	IEEE single precision float
2742	2743	Boolean Algebraic	user float 92	IEEE single precision float
2744	2745	Boolean Algebraic	user float 93	IEEE single precision float
2746	2747	Boolean Algebraic	user float 94	IEEE single precision float
2748	2749	Boolean Algebraic	user float 95	IEEE single precision float
2750	2751	Boolean Algebraic	user float 96	IEEE single precision float
2752	2753	Boolean Algebraic	user float 97	IEEE single precision float
2754	2755	Boolean Algebraic	user float 98	IEEE single precision float
2756	2757	Boolean Algebraic	user float 99	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2758	2759	Boolean Algebraic	user float 100	IEEE single precision float
2816		Boolean Algebraic	user boolean 1	unsigned character
2817		Boolean Algebraic	user boolean 2	unsigned character
2818		Boolean Algebraic	user boolean 3	unsigned character
2819		Boolean Algebraic	user boolean 4	unsigned character
2820		Boolean Algebraic	user boolean 5	unsigned character
2821		Boolean Algebraic	user boolean 6	unsigned character
2822		Boolean Algebraic	user boolean 7	unsigned character
2823		Boolean Algebraic	user boolean 8	unsigned character
2824		Boolean Algebraic	user boolean 9	unsigned character
2825		Boolean Algebraic	user boolean 10	unsigned character
2826		Boolean Algebraic	user boolean 11	unsigned character
2827		Boolean Algebraic	user boolean 12	unsigned character
2828		Boolean Algebraic	user boolean 13	unsigned character
2829		Boolean Algebraic	user boolean 14	unsigned character
2830		Boolean Algebraic	user boolean 15	unsigned character
2831		Boolean Algebraic	user boolean 16	unsigned character
2832		Boolean Algebraic	user boolean 17	unsigned character
2833		Boolean Algebraic	user boolean 18	unsigned character
2834		Boolean Algebraic	user boolean 19	unsigned character

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2835		Boolean Algebraic	user boolean 20	unsigned character
2836		Boolean Algebraic	user boolean 21	unsigned character
2837		Boolean Algebraic	user boolean 22	unsigned character
2838		Boolean Algebraic	user boolean 23	unsigned character
2839		Boolean Algebraic	user boolean 24	unsigned character
2840		Boolean Algebraic	user boolean 25	unsigned character
2841		Boolean Algebraic	user boolean 26	unsigned character
2842		Boolean Algebraic	user boolean 27	unsigned character
2843		Boolean Algebraic	user boolean 28	unsigned character
2844		Boolean Algebraic	user boolean 29	unsigned character
2845		Boolean Algebraic	user boolean 30	unsigned character
2846		Boolean Algebraic	user boolean 31	unsigned character
2847		Boolean Algebraic	user boolean 32	unsigned character
2848		Boolean Algebraic	user boolean 33	unsigned character
2849		Boolean Algebraic	user boolean 34	unsigned character
2850		Boolean Algebraic	user boolean 35	unsigned character
2851		Boolean Algebraic	user boolean 36	unsigned character
2852		Boolean Algebraic	user boolean 37	unsigned character
2853		Boolean Algebraic	user boolean 38	unsigned character
2854		Boolean Algebraic	user boolean 39	unsigned character

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2855		Boolean Algebraic	user boolean 40	unsigned character
2856		Boolean Algebraic	user boolean 41	unsigned character
2857		Boolean Algebraic	user boolean 42	unsigned character
2858		Boolean Algebraic	user boolean 43	unsigned character
2859		Boolean Algebraic	user boolean 44	unsigned character
2860		Boolean Algebraic	user boolean 45	unsigned character
2861		Boolean Algebraic	user boolean 46	unsigned character
2862		Boolean Algebraic	user boolean 47	unsigned character
2863		Boolean Algebraic	user boolean 48	unsigned character
2864		Boolean Algebraic	user boolean 49	unsigned character
2865		Boolean Algebraic	user boolean 50	unsigned character
2866		Boolean Algebraic	user boolean 51	unsigned character
2867		Boolean Algebraic	user boolean 52	unsigned character
2868		Boolean Algebraic	user boolean 53	unsigned character
2869		Boolean Algebraic	user boolean 54	unsigned character
2870		Boolean Algebraic	user boolean 55	unsigned character
2871		Boolean Algebraic	user boolean 56	unsigned character
2872		Boolean Algebraic	user boolean 57	unsigned character
2873		Boolean Algebraic	user boolean 58	unsigned character
2874		Boolean Algebraic	user boolean 59	unsigned character



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2875		Boolean Algebraic	user boolean 60	unsigned character
2876		Boolean Algebraic	user boolean 61	unsigned character
2877		Boolean Algebraic	user boolean 62	unsigned character
2878		Boolean Algebraic	user boolean 63	unsigned character
2879		Boolean Algebraic	user boolean 64	unsigned character
2880		Boolean Algebraic	user boolean 65	unsigned character
2881		Boolean Algebraic	user boolean 66	unsigned character
2882		Boolean Algebraic	user boolean 67	unsigned character
2883		Boolean Algebraic	user boolean 68	unsigned character
2884		Boolean Algebraic	user boolean 69	unsigned character
2885		Boolean Algebraic	user boolean 70	unsigned character
2886		Boolean Algebraic	user boolean 71	unsigned character
2887		Boolean Algebraic	user boolean 72	unsigned character
2888		Boolean Algebraic	user boolean 73	unsigned character
2889		Boolean Algebraic	user boolean 74	unsigned character
2890		Boolean Algebraic	user boolean 75	unsigned character
2891		Boolean Algebraic	user boolean 76	unsigned character
2892		Boolean Algebraic	user boolean 77	unsigned character
2893		Boolean Algebraic	user boolean 78	unsigned character
2894		Boolean Algebraic	user boolean 79	unsigned character
2895		Boolean Algebraic	user boolean 80	unsigned character

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2896		Boolean Algebraic	user boolean 81	unsigned character
2897		Boolean Algebraic	user boolean 82	unsigned character
2898		Boolean Algebraic	user boolean 83	unsigned character
2899		Boolean Algebraic	user boolean 84	unsigned character
2900		Boolean Algebraic	user boolean 85	unsigned character
2901		Boolean Algebraic	user boolean 86	unsigned character
2902		Boolean Algebraic	user boolean 87	unsigned character
2903		Boolean Algebraic	user boolean 88	unsigned character
2904		Boolean Algebraic	user boolean 89	unsigned character
2905		Boolean Algebraic	user boolean 90	unsigned character
2906		Boolean Algebraic	user boolean 91	unsigned character
2907		Boolean Algebraic	user boolean 92	unsigned character
2908		Boolean Algebraic	user boolean 93	unsigned character
2909		Boolean Algebraic	user boolean 94	unsigned character
2910		Boolean Algebraic	user boolean 95	unsigned character
2911		Boolean Algebraic	user boolean 96	unsigned character
2912		Boolean Algebraic	user boolean 97	unsigned character
2913		Boolean Algebraic	user boolean 98	unsigned character
2914		Boolean Algebraic	user boolean 99	unsigned character
2915		Boolean Algebraic	user boolean 100	unsigned character

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Configuration and SystemMenu

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
2944		pulse input 1 function	Reserved	CONF	
2945		pulse input 2 function	Reserved	CONF	
2946		pulse input 3 function	unsigned character	CONF	103
2947		pulse input 4 function	unsigned character	CONF	107
2948		pulse input 5 function	unsigned character	CONF	111
2949		pulse input 6 function	unsigned character	CONF	115
2950		pulse input 7 function	unsigned character	CONF	119
2951		pulse input 8 function	unsigned character	CONF	123
2952		pulse input 9 function	unsigned character	CONF	127
2953		pulse input 10 function	unsigned character	CONF	131
2954		pulse input 11 function	unsigned character	CONF	135
2955		pulse input 12 function	unsigned character	CONF	139
2956		pulse input 3 arm	unsigned character	CONF	104
2957		pulse input 4 arm	unsigned character	CONF	108
2958		pulse input 5 arm	unsigned character	CONF	112
2959		pulse input 6 arm	unsigned character	CONF	116
2960		pulse input 7 arm	unsigned character	CONF	120
2961		pulse input 8 arm	unsigned character	CONF	124
2962		pulse input 9 arm	unsigned character	CONF	128
2963		pulse input 10 arm	unsigned character	CONF	132
2964		pulse input 11 arm	unsigned character	CONF	136
2965		pulse input 12 arm	unsigned character	CONF	140
2966		pulse input 3 meter	unsigned character	CONF	105
2967		pulse input 4 meter	unsigned character	CONF	109
2968		pulse input 5 meter	unsigned character	CONF	113
2969		pulse input 6 meter	unsigned character	CONF	117
2970		pulse input 7 meter	unsigned character	CONF	121
2971		pulse input 8 meter	unsigned character	CONF	125
2972		pulse input 9 meter	unsigned character	CONF	129
2973		pulse input 10 meter	unsigned character	CONF	133
2974		pulse input 11 meter	unsigned character	CONF	137
2975		pulse input 12 meter	unsigned character	CONF	141
3008		Input #1	unsigned character	CONF	301
3009		Input #2	unsigned character	CONF	305
3010		Input #3	unsigned character	CONF	309

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3011		Input #4	unsigned character	CONF	313
3012		Input #5	unsigned character	CONF	317
3013		Input #6	unsigned character	CONF	321
3014		Input #7	unsigned character	CONF	325
3015		Input #8	unsigned character	CONF	329
3016		Input #9	unsigned character	CONF	333
3017		Input #10	unsigned character	CONF	337
3018		Input #11	unsigned character	CONF	341
3019		Input #12	unsigned character	CONF	345
3020		Input #13	unsigned character	CONF	349
3021		Input #14	unsigned character	CONF	353
3022		Input #15	unsigned character	CONF	357
3023		Input #16 (BIO 1, if configured)	unsigned character	CONF	361
3024		Input #17 (BIO 2, if configured)	unsigned character	CONF	365
3025		Input #18 (BIO 3, if configured)	unsigned character	CONF	369
3026		Input #19 (BIO 4, if configured)	unsigned character	CONF	373
3027		Input #20 (BIO 5, if configured)	unsigned character	CONF	377
3028		Input #21 (BIO 6, if configured)	unsigned character	CONF	381
3029		Input #22 (BIO 7, if configured)	unsigned character	CONF	385
3030		Input #23 (BIO 8, if configured)	unsigned character	CONF	389
3031		Input #24 (AICB 1 In 1)	unsigned character	CONF	393
3032		Input #25 (AICB 1 In 2)	unsigned character	CONF	397
3033		Input #26 (AICB 1 In 3)	unsigned character	CONF	401
3034		Input #27 (AICB 1 In 4)	unsigned character	CONF	405
3035		Input #28 (AICB 1 In 5)	unsigned character	CONF	409
3036		Input #29 (AICB 1 In 6)	unsigned character	CONF	413
3037		Input #30 (AICB 1 In 7)	unsigned character	CONF	417
3038		Input #31 (AICB 1 In 8)	unsigned character	CONF	421
3039		Input #32 (AICB 1 In 9)	unsigned character	CONF	425
3040		Input #33 (AICB 1 In 10)	unsigned character	CONF	429
3041		Input #34 (AICB 2 In 1)	unsigned character	CONF	433

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3042		Input #35 (AICB 2 In 2)	unsigned character	CONF	437
3043		Input #36 (AICB 2 In 3)	unsigned character	CONF	441
3044		Input #37 (AICB 2 In 4)	unsigned character	CONF	445
3045		Input #38 (AICB 2 In 5)	unsigned character	CONF	449
3046		Input #39 (AICB 2 In 6)	unsigned character	CONF	453
3047		Input #40 (AICB 2 In 7)	unsigned character	CONF	457
3048		Input #41 (AICB 2 In 8)	unsigned character	CONF	461
3049		Input #42 (AICB 2 In 9)	unsigned character	CONF	465
3050		Input #43 (AICB 2 In 10)	unsigned character	CONF	469
3051		Output #1	unsigned character	CONF	501
3052		Output #2	unsigned character	CONF	505
3053		Output #3	unsigned character	CONF	509
3054		Output #4	unsigned character	CONF	513
3055		Output #5	unsigned character	CONF	517
3056		Output #6	unsigned character	CONF	521
3057		Output #7	unsigned character	CONF	525
3058		Output #8	unsigned character	CONF	529
3059		Output #9	unsigned character	CONF	533
3060		Output #10	unsigned character	CONF	537
3061		Output #11	unsigned character	CONF	541
3062		Output #12	unsigned character	CONF	545
3063		Output #13	unsigned character	CONF	549
3064		Output #14	unsigned character	CONF	553
3065		Output #15	unsigned character	CONF	557
3066		Output #16	unsigned character	CONF	561
3067		Output #17	unsigned character	CONF	565
3068		Output #18	unsigned character	CONF	569
3069		Output #19	unsigned character	CONF	573
3070		Output #20	unsigned character	CONF	577
3071		Output #21	unsigned character	CONF	581
3072		Output #22	unsigned character	CONF	585
3073		Output #23	unsigned character	CONF	589
3074		Output #24	unsigned character	CONF	593
3075		Output #25	unsigned character	CONF	597
3076		Output #26	unsigned character	CONF	601
3077		Output #27	unsigned character	CONF	605

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3078		Output #28	unsigned character	CONF	609
3079		Output #29	unsigned character	CONF	613
3080		Output #30	unsigned character	CONF	617
3081		Output #31 (BIO 1, if configured)	unsigned character	CONF	621
3082		Output #32 (BIO 2, if configured)	unsigned character	CONF	625
3083		Output #33 (BIO 3, if configured)	unsigned character	CONF	629
3084		Output #34 (BIO 4, if configured)	unsigned character	CONF	633
3085		Output #35 (BIO 5, if configured)	unsigned character	CONF	637
3086		Output #36 (BIO 6, if configured)	unsigned character	CONF	641
3087		Output #37 (BIO 7, if configured)	unsigned character	CONF	645
3088		Output #38 (BIO 8, if configured)	unsigned character	CONF	649
3089		Output #39 (AICB 1 Out 1)	unsigned character	CONF	653
3090		Output #40 (AICB 1 Out 2)	unsigned character	CONF	657
3091		Output #41 (AICB 1 Out 3)	unsigned character	CONF	661
3092		Output #42 (AICB 1 Out 4)	unsigned character	CONF	665
3093		Output #43 (AICB 1 Out 5)	unsigned character	CONF	669
3094		Output #44 (AICB 1 Out 6)	unsigned character	CONF	673
3095		Output #45 (AICB 1 Out 7)	unsigned character	CONF	677
3096		Output #46 (AICB 1 Out 8)	unsigned character	CONF	681
3097		Output #47 (AICB 1 Out 9)	unsigned character	CONF	685
3098		Output #48 (AICB 1 Out 10)	unsigned character	CONF	689
3099		Output #49 (AICB 1 Out 11)	unsigned character	CONF	693
3100		Output #50 (AICB 1 Out 12)	unsigned character	CONF	697

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3101		Output #51 (AICB 1 Out 13)	unsigned character	CONF	701
3102		Output #52 (AICB 1 Out 14)	unsigned character	CONF	705
3103		Output #53 (AICB 1 Out 15)	unsigned character	CONF	709
3104		Output #54 (AICB 1 Out 16)	unsigned character	CONF	713
3105		Output #55 (AICB 1 Out 17)	unsigned character	CONF	717
3106		Output #56 (AICB 1 Out 18)	unsigned character	CONF	721
3107		Output #57 (AICB 1 Out 19)	unsigned character	CONF	725
3108		Output #58 (AICB 1 Out 20)	unsigned character	CONF	729
3109		Output #59 (AICB 2 Out 1)	unsigned character	CONF	733
3110		Output #60 (AICB 2 Out 2)	unsigned character	CONF	737
3111		Output #61 (AICB 2 Out 3)	unsigned character	CONF	741
3112		Output #62 (AICB 2 Out 4)	unsigned character	CONF	745
3113		Output #63 (AICB 2 Out 5)	unsigned character	CONF	749
3114		Output #64 (AICB 2 Out 6)	unsigned character	CONF	753
3115		Output #65 (AICB 2 Out 7)	unsigned character	CONF	757
3116		Output #66 (AICB 2 Out 8)	unsigned character	CONF	761
3117		Output #67 (AICB 2 Out 9)	unsigned character	CONF	765
3118		Output #68 (AICB 2 Out 10)	unsigned character	CONF	769
3119		Output #69 (AICB 2 Out 11)	unsigned character	CONF	773
3120		Output #70 (AICB 2 Out 12)	unsigned character	CONF	777
3121		Output #71 (AICB 2 Out 13)	unsigned character	CONF	781
3122		Output #72 (AICB 2 Out 14)	unsigned character	CONF	785

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3123		Output #73 (AICB 2 Out 15)	unsigned character	CONF	789
3124		Output #74 (AICB 2 Out 16)	unsigned character	CONF	793
3125		Output #75 (AICB 2 Out 17)	unsigned character	CONF	797
3126		Output #76 (AICB 2 Out 18)	unsigned character	CONF	801
3127		Output #77 (AICB 2 Out 19)	unsigned character	CONF	805
3128		Output #78 (AICB 2 Out 20)	unsigned character	CONF	809
3129		Input #1 Arm	unsigned character	CONF	302
3130		Input #2 Arm	unsigned character	CONF	306
3131		Input #3 Arm	unsigned character	CONF	310
3132		Input #4 Arm	unsigned character	CONF	314
3133		Input #5 Arm	unsigned character	CONF	318
3134		Input #6 Arm	unsigned character	CONF	322
3135		Input #7 Arm	unsigned character	CONF	326
3136		Input #8 Arm	unsigned character	CONF	330
3137		Input #9 Arm	unsigned character	CONF	334
3138		Input #10 Arm	unsigned character	CONF	338
3139		Input #11 Arm	unsigned character	CONF	342
3140		Input #12 Arm	unsigned character	CONF	346
3141		Input #13 Arm	unsigned character	CONF	350
3142		Input #14 Arm	unsigned character	CONF	354
3143		Input #15 Arm	unsigned character	CONF	358
3144		Input #16 (BIO 1, if configured) Arm	unsigned character	CONF	362
3145		Input #17 (BIO 2, if configured) Arm	unsigned character	CONF	366
3146		Input #18 (BIO 3, if configured) Arm	unsigned character	CONF	370
3147		Input #19 (BIO 4, if configured) Arm	unsigned character	CONF	374
3148		Input #20 (BIO 5, if configured) Arm	unsigned character	CONF	378
3149		Input #21 (BIO 6, if configured) Arm	unsigned character	CONF	382
3150		Input #22 (BIO 7, if configured) Arm	unsigned character	CONF	386



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3151		Input #23 (BIO 8, if configured) Arm	unsigned character	CONF	390
3152		Input #24 (AICB 1 In 1) Arm	unsigned character	CONF	394
3153		Input #25 (AICB 1 In 2) Arm	unsigned character	CONF	398
3154		Input #26 (AICB 1 In 3) Arm	unsigned character	CONF	402
3155		Input #27 (AICB 1 In 4) Arm	unsigned character	CONF	406
3156		Input #28 (AICB 1 In 5) Arm	unsigned character	CONF	410
3157		Input #29 (AICB 1 In 6) Arm	unsigned character	CONF	414
3158		Input #30 (AICB 1 In 7) Arm	unsigned character	CONF	418
3159		Input #31 (AICB 1 In 8) Arm	unsigned character	CONF	422
3160		Input #32 (AICB 1 In 9) Arm	unsigned character	CONF	426
3161		Input #33 (AICB 1 In 10) Arm	unsigned character	CONF	430
3162		Input #34 (AICB 2 In 1) Arm	unsigned character	CONF	434
3163		Input #35 (AICB 2 In 2) Arm	unsigned character	CONF	438
3164		Input #36 (AICB 2 In 3) Arm	unsigned character	CONF	442
3165		Input #37 (AICB 2 In 4) Arm	unsigned character	CONF	446
3166		Input #38 (AICB 2 In 5) Arm	unsigned character	CONF	450
3167		Input #39 (AICB 2 In 6) Arm	unsigned character	CONF	454
3168		Input #40 (AICB 2 In 7) Arm	unsigned character	CONF	458
3169		Input #41 (AICB 2 In 8) Arm	unsigned character	CONF	462
3170		Input #42 (AICB 2 In 9) Arm	unsigned character	CONF	466
3171		Input #43 (AICB 2 In 10) Arm	unsigned character	CONF	470
3172		Output #1 Arm	unsigned character	CONF	502
3173		Output #2 Arm	unsigned character	CONF	506

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3174		Output #3 Arm	unsigned character	CONF	510
3175		Output #4 Arm	unsigned character	CONF	514
3176		Output #5 Arm	unsigned character	CONF	518
3177		Output #6 Arm	unsigned character	CONF	522
3178		Output #7 Arm	unsigned character	CONF	526
3179		Output #8 Arm	unsigned character	CONF	530
3180		Output #9 Arm	unsigned character	CONF	534
3181		Output #10 Arm	unsigned character	CONF	538
3182		Output #11 Arm	unsigned character	CONF	542
3183		Output #12 Arm	unsigned character	CONF	546
3184		Output #13 Arm	unsigned character	CONF	550
3185		Output #14 Arm	unsigned character	CONF	554
3186		Output #15 Arm	unsigned character	CONF	558
3187		Output #16 Arm	unsigned character	CONF	562
3188		Output #17 Arm	unsigned character	CONF	566
3189		Output #18 Arm	unsigned character	CONF	570
3190		Output #19 Arm	unsigned character	CONF	574
3191		Output #20 Arm	unsigned character	CONF	578
3192		Output #21 Arm	unsigned character	CONF	582
3193		Output #22 Arm	unsigned character	CONF	586
3194		Output #23 Arm	unsigned character	CONF	590
3195		Output #24 Arm	unsigned character	CONF	594
3196		Output #25 Arm	unsigned character	CONF	598
3197		Output #26 Arm	unsigned character	CONF	602
3198		Output #27 Arm	unsigned character	CONF	606
3199		Output #28 Arm	unsigned character	CONF	610
3200		Output #29 Arm	unsigned character	CONF	614
3201		Output #30 Arm	unsigned character	CONF	618
3202		Output #31 (BIO 1, if configured) Arm	unsigned character	CONF	622
3203		Output #32 (BIO 2, if configured) Arm	unsigned character	CONF	626
3204		Output #33 (BIO 3, if configured) Arm	unsigned character	CONF	630
3205		Output #34 (BIO 4, if configured) Arm	unsigned character	CONF	634
3206		Output #35 (BIO 5, if configured) Arm	unsigned character	CONF	638

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3207		Output #36 (BIO 6, if configured) Arm	unsigned character	CONF	642
3208		Output #37 (BIO 7, if configured) Arm	unsigned character	CONF	646
3209		Output #38 (BIO 8, if configured) Arm	unsigned character	CONF	650
3210		Output #39 (AICB 1 Out 1) Arm	unsigned character	CONF	654
3211		Output #40 (AICB 1 Out 2) Arm	unsigned character	CONF	658
3212		Output #41 (AICB 1 Out 3) Arm	unsigned character	CONF	662
3213		Output #42 (AICB 1 Out 4) Arm	unsigned character	CONF	666
3214		Output #43 (AICB 1 Out 5) Arm	unsigned character	CONF	670
3215		Output #44 (AICB 1 Out 6) Arm	unsigned character	CONF	674
3216		Output #45 (AICB 1 Out 7) Arm	unsigned character	CONF	678
3217		Output #46 (AICB 1 Out 8) Arm	unsigned character	CONF	682
3218		Output #47 (AICB 1 Out 9) Arm	unsigned character	CONF	686
3219		Output #48 (AICB 1 Out 10) Arm	unsigned character	CONF	690
3220		Output #49 (AICB 1 Out 11) Arm	unsigned character	CONF	694
3221		Output #50 (AICB 1 Out 12) Arm	unsigned character	CONF	698
3222		Output #51 (AICB 1 Out 13) Arm	unsigned character	CONF	702
3223		Output #52 (AICB 1 Out 14) Arm	unsigned character	CONF	706
3224		Output #53 (AICB 1 Out 15) Arm	unsigned character	CONF	710
3225		Output #54 (AICB 1 Out 16) Arm	unsigned character	CONF	714
3226		Output #55 (AICB 1 Out 17) Arm	unsigned character	CONF	718
3227		Output #56 (AICB 1 Out 18) Arm	unsigned character	CONF	722
3228		Output #57 (AICB 1 Out 19) Arm	unsigned character	CONF	726

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3229		Output #58 (AICB 1 Out 20) Arm	unsigned character	CONF	730
3230		Output #59 (AICB 2 Out 1) Arm	unsigned character	CONF	734
3231		Output #60 (AICB 2 Out 2) Arm	unsigned character	CONF	738
3232		Output #61 (AICB 2 Out 3) Arm	unsigned character	CONF	742
3233		Output #62 (AICB 2 Out 4) Arm	unsigned character	CONF	746
3234		Output #63 (AICB 2 Out 5) Arm	unsigned character	CONF	750
3235		Output #64 (AICB 2 Out 6) Arm	unsigned character	CONF	754
3236		Output #65 (AICB 2 Out 7) Arm	unsigned character	CONF	758
3237		Output #66 (AICB 2 Out 8) Arm	unsigned character	CONF	762
3238		Output #67 (AICB 2 Out 9) Arm	unsigned character	CONF	766
3239		Output #68 (AICB 2 Out 10) Arm	unsigned character	CONF	770
3240		Output #69 (AICB 2 Out 11) Arm	unsigned character	CONF	774
3241		Output #70 (AICB 2 Out 12) Arm	unsigned character	CONF	778
3242		Output #71 (AICB 2 Out 13) Arm	unsigned character	CONF	782
3243		Output #72 (AICB 2 Out 14) Arm	unsigned character	CONF	786
3244		Output #73 (AICB 2 Out 15) Arm	unsigned character	CONF	790
3245		Output #74 (AICB 2 Out 16) Arm	unsigned character	CONF	794
3246		Output #75 (AICB 2 Out 17) Arm	unsigned character	CONF	798
3247		Output #76 (AICB 2 Out 18) Arm	unsigned character	CONF	802
3248		Output #77 (AICB 2 Out 19) Arm	unsigned character	CONF	806
3249		Output #78 (AICB 2 Out 20) Arm	unsigned character	CONF	810
3264		Input #1 Meter	unsigned character	CONF	303
3265		Input #2 Meter	unsigned character	CONF	307

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3266		Input #3 Meter	unsigned character	CONF	311
3267		Input #4 Meter	unsigned character	CONF	315
3268		Input #5 Meter	unsigned character	CONF	319
3269		Input #6 Meter	unsigned character	CONF	323
3270		Input #7 Meter	unsigned character	CONF	327
3271		Input #8 Meter	unsigned character	CONF	331
3272		Input #9 Meter	unsigned character	CONF	335
3273		Input #10 Meter	unsigned character	CONF	339
3274		Input #11 Meter	unsigned character	CONF	343
3275		Input #12 Meter	unsigned character	CONF	347
3276		Input #13 Meter	unsigned character	CONF	351
3277		Input #14 Meter	unsigned character	CONF	355
3278		Input #15 Meter	unsigned character	CONF	359
3279		Input #16 (BIO 1, if configured) Meter	unsigned character	CONF	363
3280		Input #17 (BIO 2, if configured) Meter	unsigned character	CONF	367
3281		Input #18 (BIO 3, if configured) Meter	unsigned character	CONF	371
3282		Input #19 (BIO 4, if configured) Meter	unsigned character	CONF	375
3283		Input #20 (BIO 5, if configured) Meter	unsigned character	CONF	379
3284		Input #21 (BIO 6, if configured) Meter	unsigned character	CONF	383
3285		Input #22 (BIO 7, if configured) Meter	unsigned character	CONF	387
3286		Input #23 (BIO 8, if configured) Meter	unsigned character	CONF	391
3287		Input #24 (AICB 1 In 1) Meter	unsigned character	CONF	395
3288		Input #25 (AICB 1 In 2) Meter	unsigned character	CONF	399
3289		Input #26 (AICB 1 In 3) Meter	unsigned character	CONF	403
3290		Input #27 (AICB 1 In 4) Meter	unsigned character	CONF	407
3291		Input #28 (AICB 1 In 5) Meter	unsigned character	CONF	411
3292		Input #29 (AICB 1 In 6) Meter	unsigned character	CONF	415

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3293		Input #30 (AICB 1 In 7) Meter	unsigned character	CONF	419
3294		Input #31 (AICB 1 In 8) Meter	unsigned character	CONF	423
3295		Input #32 (AICB 1 In 9) Meter	unsigned character	CONF	427
3296		Input #33 (AICB 1 In 10) Meter	unsigned character	CONF	431
3297		Input #34 (AICB 2 In 1) Meter	unsigned character	CONF	435
3298		Input #35 (AICB 2 In 2) Meter	unsigned character	CONF	439
3299		Input #36 (AICB 2 In 3) Meter	unsigned character	CONF	443
3300		Input #37 (AICB 2 In 4) Meter	unsigned character	CONF	447
3301		Input #38 (AICB 2 In 5) Meter	unsigned character	CONF	451
3302		Input #39 (AICB 2 In 6) Meter	unsigned character	CONF	455
3303		Input #40 (AICB 2 In 7) Meter	unsigned character	CONF	459
3304		Input #41 (AICB 2 In 8) Meter	unsigned character	CONF	463
3305		Input #42 (AICB 2 In 9) Meter	unsigned character	CONF	467
3306		Input #43 (AICB 2 In 10) Meter	unsigned character	CONF	471
3307		Output #1 Meter	unsigned character	CONF	503
3308		Output #2 Meter	unsigned character	CONF	507
3309		Output #3 Meter	unsigned character	CONF	511
3310		Output #4 Meter	unsigned character	CONF	515
3311		Output #5 Meter	unsigned character	CONF	519
3312		Output #6 Meter	unsigned character	CONF	523
3313		Output #7 Meter	unsigned character	CONF	527
3314		Output #8 Meter	unsigned character	CONF	531
3315		Output #9 Meter	unsigned character	CONF	535
3316		Output #10 Meter	unsigned character	CONF	539
3317		Output #11 Meter	unsigned character	CONF	543
3318		Output #12 Meter	unsigned character	CONF	547
3319		Output #13 Meter	unsigned character	CONF	551

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3320		Output #14 Meter	unsigned character	CONF	555
3321		Output #15 Meter	unsigned character	CONF	559
3322		Output #16 Meter	unsigned character	CONF	563
3323		Output #17 Meter	unsigned character	CONF	567
3324		Output #18 Meter	unsigned character	CONF	571
3325		Output #19 Meter	unsigned character	CONF	575
3326		Output #20 Meter	unsigned character	CONF	579
3327		Output #21 Meter	unsigned character	CONF	583
3328		Output #22 Meter	unsigned character	CONF	587
3329		Output #23 Meter	unsigned character	CONF	591
3330		Output #24 Meter	unsigned character	CONF	595
3331		Output #25 Meter	unsigned character	CONF	599
3332		Output #26 Meter	unsigned character	CONF	603
3333		Output #27 Meter	unsigned character	CONF	607
3334		Output #28 Meter	unsigned character	CONF	611
3335		Output #29 Meter	unsigned character	CONF	615
3336		Output #30 Meter	unsigned character	CONF	619
3337		Output #31 (BIO 1, if configured) Meter	unsigned character	CONF	623
3338		Output #32 (BIO 2, if configured) Meter	unsigned character	CONF	627
3339		Output #33 (BIO 3, if configured) Meter	unsigned character	CONF	631
3340		Output #34 (BIO 4, if configured) Meter	unsigned character	CONF	635
3341		Output #35 (BIO 5, if configured) Meter	unsigned character	CONF	639
3342		Output #36 (BIO 6, if configured) Meter	unsigned character	CONF	643
3343		Output #37 (BIO 7, if configured) Meter	unsigned character	CONF	647
3344		Output #38 (BIO 8, if configured) Meter	unsigned character	CONF	651
3345		Output #39 (AICB 1 Out 1) Meter	unsigned character	CONF	655
3346		Output #40 (AICB 1 Out 2) Meter	unsigned character	CONF	659
3347		Output #41 (AICB 1 Out 3) Meter	unsigned character	CONF	663
3348		Output #42 (AICB 1 Out 4) Meter	unsigned character	CONF	667

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3349		Output #43 (AICB 1 Out 5) Meter	unsigned character	CONF	671
3350		Output #44 (AICB 1 Out 6) Meter	unsigned character	CONF	675
3351		Output #45 (AICB 1 Out 7) Meter	unsigned character	CONF	679
3352		Output #46 (AICB 1 Out 8) Meter	unsigned character	CONF	683
3353		Output #47 (AICB 1 Out 9) Meter	unsigned character	CONF	687
3354		Output #48 (AICB 1 Out 10) Meter	unsigned character	CONF	691
3355		Output #49 (AICB 1 Out 11) Meter	unsigned character	CONF	695
3356		Output #50 (AICB 1 Out 12) Meter	unsigned character	CONF	699
3357		Output #51 (AICB 1 Out 13) Meter	unsigned character	CONF	703
3358		Output #52 (AICB 1 Out 14) Meter	unsigned character	CONF	707
3359		Output #53 (AICB 1 Out 15) Meter	unsigned character	CONF	711
3360		Output #54 (AICB 1 Out 16) Meter	unsigned character	CONF	715
3361		Output #55 (AICB 1 Out 17) Meter	unsigned character	CONF	719
3362		Output #56 (AICB 1 Out 18) Meter	unsigned character	CONF	723
3363		Output #57 (AICB 1 Out 19) Meter	unsigned character	CONF	727
3364		Output #58 (AICB 1 Out 20) Meter	unsigned character	CONF	731
3365		Output #59 (AICB 2 Out 1) Meter	unsigned character	CONF	735
3366		Output #60 (AICB 2 Out 2) Meter	unsigned character	CONF	739
3367		Output #61 (AICB 2 Out 3) Meter	unsigned character	CONF	743
3368		Output #62 (AICB 2 Out 4) Meter	unsigned character	CONF	747
3369		Output #63 (AICB 2 Out 5) Meter	unsigned character	CONF	751
3370		Output #64 (AICB 2 Out 6) Meter	unsigned character	CONF	755



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3371		Output #65 (AICB 2 Out 7) Meter	unsigned character	CONF	759
3372		Output #66 (AICB 2 Out 8) Meter	unsigned character	CONF	763
3373		Output #67 (AICB 2 Out 9) Meter	unsigned character	CONF	767
3374		Output #68 (AICB 2 Out 10) Meter	unsigned character	CONF	771
3375		Output #69 (AICB 2 Out 11) Meter	unsigned character	CONF	775
3376		Output #70 (AICB 2 Out 12) Meter	unsigned character	CONF	779
3377		Output #71 (AICB 2 Out 13) Meter	unsigned character	CONF	783
3378		Output #72 (AICB 2 Out 14) Meter	unsigned character	CONF	787
3379		Output #73 (AICB 2 Out 15) Meter	unsigned character	CONF	791
3380		Output #74 (AICB 2 Out 16) Meter	unsigned character	CONF	795
3381		Output #75 (AICB 2 Out 17) Meter	unsigned character	CONF	799
3382		Output #76 (AICB 2 Out 18) Meter	unsigned character	CONF	803
3383		Output #77 (AICB 2 Out 19) Meter	unsigned character	CONF	807
3384		Output #78 (AICB 2 Out 20) Meter	unsigned character	CONF	811
3385		Input #1 Product	unsigned character	CONF	304
3386		Input #2 Product	unsigned character	CONF	308
3387		Input #3 Product	unsigned character	CONF	312
3388		Input #4 Product	unsigned character	CONF	316
3389		Input #5 Product	unsigned character	CONF	320
3390		Input #6 Product	unsigned character	CONF	324
3391		Input #7 Product	unsigned character	CONF	328
3392		Input #8 Product	unsigned character	CONF	332
3393		Input #9 Product	unsigned character	CONF	336
3394		Input #10 Product	unsigned character	CONF	340
3395		Input #11 Product	unsigned character	CONF	344
3396		Input #12 Product	unsigned character	CONF	348
3397		Input #13 Product	unsigned character	CONF	352

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3398		Input #14 Product	unsigned character	CONF	356
3399		Input #15 Product	unsigned character	CONF	360
3400		Input #16 (BIO 1, if configured) Product	unsigned character	CONF	364
3401		Input #17 (BIO 2, if configured) Product	unsigned character	CONF	368
3402		Input #18 (BIO 3, if configured) Product	unsigned character	CONF	372
3403		Input #19 (BIO 4, if configured) Product	unsigned character	CONF	376
3404		Input #20 (BIO 5, if configured) Product	unsigned character	CONF	380
3405		Input #21 (BIO 6, if configured) Product	unsigned character	CONF	384
3406		Input #22 (BIO 7, if configured) Product	unsigned character	CONF	388
3407		Input #23 (BIO 8, if configured) Product	unsigned character	CONF	392
3408		Input #24 (AICB 1 In 1) Product	unsigned character	CONF	396
3409		Input #25 (AICB 1 In 2) Product	unsigned character	CONF	400
3410		Input #26 (AICB 1 In 3) Product	unsigned character	CONF	404
3411		Input #27 (AICB 1 In 4) Product	unsigned character	CONF	408
3412		Input #28 (AICB 1 In 5) Product	unsigned character	CONF	412
3413		Input #29 (AICB 1 In 6) Product	unsigned character	CONF	416
3414		Input #30 (AICB 1 In 7) Product	unsigned character	CONF	420
3415		Input #31 (AICB 1 In 8) Product	unsigned character	CONF	424
3416		Input #32 (AICB 1 In 9) Product	unsigned character	CONF	428
3417		Input #33 (AICB 1 In 10) Product	unsigned character	CONF	432
3418		Input #34 (AICB 2 In 1) Product	unsigned character	CONF	436
3419		Input #35 (AICB 2 In 2) Product	unsigned character	CONF	440
3420		Input #36 (AICB 2 In 3) Product	unsigned character	CONF	444

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3421		Input #37 (AICB 2 In 4) Product	unsigned character	CONF	448
3422		Input #38 (AICB 2 In 5) Product	unsigned character	CONF	452
3423		Input #39 (AICB 2 In 6) Product	unsigned character	CONF	456
3424		Input #40 (AICB 2 In 7) Product	unsigned character	CONF	460
3425		Input #41 (AICB 2 In 8) Product	unsigned character	CONF	464
3426		Input #42 (AICB 2 In 9) Product	unsigned character	CONF	468
3427		Input #43 (AICB 2 In 10) Product	unsigned character	CONF	472
3428		Output #1 Product	unsigned character	CONF	504
3429		Output #2 Product	unsigned character	CONF	508
3430		Output #3 Product	unsigned character	CONF	512
3431		Output #4 Product	unsigned character	CONF	516
3432		Output #5 Product	unsigned character	CONF	520
3433		Output #6 Product	unsigned character	CONF	524
3434		Output #7 Product	unsigned character	CONF	528
3435		Output #8 Product	unsigned character	CONF	532
3436		Output #9 Product	unsigned character	CONF	536
3437		Output #10 Product	unsigned character	CONF	540
3438		Output #11 Product	unsigned character	CONF	544
3439		Output #12 Product	unsigned character	CONF	548
3440		Output #13 Product	unsigned character	CONF	552
3441		Output #14 Product	unsigned character	CONF	556
3442		Output #15 Product	unsigned character	CONF	560
3443		Output #16 Product	unsigned character	CONF	564
3444		Output #17 Product	unsigned character	CONF	568
3445		Output #18 Product	unsigned character	CONF	572
3446		Output #19 Product	unsigned character	CONF	576
3447		Output #20 Product	unsigned character	CONF	580
3448		Output #21 Product	unsigned character	CONF	584
3449		Output #22 Product	unsigned character	CONF	588
3450		Output #23 Product	unsigned character	CONF	592
3451		Output #24 Product	unsigned character	CONF	596
3452		Output #25 Product	unsigned character	CONF	600

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3453		Output #26 Product	unsigned character	CONF	604
3454		Output #27 Product	unsigned character	CONF	608
3455		Output #28 Product	unsigned character	CONF	612
3456		Output #29 Product	unsigned character	CONF	616
3457		Output #30 Product	unsigned character	CONF	620
3458		Output #31 (BIO 1, if configured) Product	unsigned character	CONF	624
3459		Output #32 (BIO 2, if configured) Product	unsigned character	CONF	628
3460		Output #33 (BIO 3, if configured) Product	unsigned character	CONF	632
3461		Output #34 (BIO 4, if configured) Product	unsigned character	CONF	636
3462		Output #35 (BIO 5, if configured) Product	unsigned character	CONF	640
3463		Output #36 (BIO 6, if configured) Product	unsigned character	CONF	644
3464		Output #37 (BIO 7, if configured) Product	unsigned character	CONF	648
3465		Output #38 (BIO 8, if configured) Product	unsigned character	CONF	652
3466		Output #39 (AICB 1 Out 1) Product	unsigned character	CONF	656
3467		Output #40 (AICB 1 Out 2) Product	unsigned character	CONF	660
3468		Output #41 (AICB 1 Out 3) Product	unsigned character	CONF	664
3469		Output #42 (AICB 1 Out 4) Product	unsigned character	CONF	668
3470		Output #43 (AICB 1 Out 5) Product	unsigned character	CONF	672
3471		Output #44 (AICB 1 Out 6) Product	unsigned character	CONF	676
3472		Output #45 (AICB 1 Out 7) Product	unsigned character	CONF	680
3473		Output #46 (AICB 1 Out 8) Product	unsigned character	CONF	684
3474		Output #47 (AICB 1 Out 9) Product	unsigned character	CONF	688
3475		Output #48 (AICB 1 Out 10) Product	unsigned character	CONF	692
3476		Output #49 (AICB 1 Out 11) Product	unsigned character	CONF	696

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3477		Output #50 (AICB 1 Out 12) Product	unsigned character	CONF	700
3478		Output #51 (AICB 1 Out 13) Product	unsigned character	CONF	704
3479		Output #52 (AICB 1 Out 14) Product	unsigned character	CONF	708
3480		Output #53 (AICB 1 Out 15) Product	unsigned character	CONF	712
3481		Output #54 (AICB 1 Out 16) Product	unsigned character	CONF	716
3482		Output #55 (AICB 1 Out 17) Product	unsigned character	CONF	720
3483		Output #56 (AICB 1 Out 18) Product	unsigned character	CONF	724
3484		Output #57 (AICB 1 Out 19) Product	unsigned character	CONF	728
3485		Output #58 (AICB 1 Out 20) Product	unsigned character	CONF	732
3486		Output #59 (AICB 2 Out 1) Product	unsigned character	CONF	736
3487		Output #60 (AICB 2 Out 2) Product	unsigned character	CONF	740
3488		Output #61 (AICB 2 Out 3) Product	unsigned character	CONF	744
3489		Output #62 (AICB 2 Out 4) Product	unsigned character	CONF	748
3490		Output #63 (AICB 2 Out 5) Product	unsigned character	CONF	752
3491		Output #64 (AICB 2 Out 6) Product	unsigned character	CONF	756
3492		Output #65 (AICB 2 Out 7) Product	unsigned character	CONF	760
3493		Output #66 (AICB 2 Out 8) Product	unsigned character	CONF	764
3494		Output #67 (AICB 2 Out 9) Product	unsigned character	CONF	768
3495		Output #68 (AICB 2 Out 10) Product	unsigned character	CONF	772
3496		Output #69 (AICB 2 Out 11) Product	unsigned character	CONF	776
3497		Output #70 (AICB 2 Out 12) Product	unsigned character	CONF	780
3498		Output #71 (AICB 2 Out 13) Product	unsigned character	CONF	784

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3499		Output #72 (AICB 2 Out 14) Product	unsigned character	CONF	788
3500		Output #73 (AICB 2 Out 15) Product	unsigned character	CONF	792
3501		Output #74 (AICB 2 Out 16) Product	unsigned character	CONF	796
3502		Output #75 (AICB 2 Out 17) Product	unsigned character	CONF	800
3503		Output #76 (AICB 2 Out 18) Product	unsigned character	CONF	804
3504		Output #77 (AICB 2 Out 19) Product	unsigned character	CONF	808
3505		Output #78 (AICB 2 Out 20) Product	unsigned character	CONF	812
3520	3521	Analog Input 1 Cal 1	IEEE single precision float	CONF	906
3522	3523	Analog Input 2 Cal 1	IEEE single precision float	CONF	916
3524	3525	Analog Input 3 Cal 1	IEEE single precision float	CONF	926
3526	3527	Analog Input 4 Cal 1	IEEE single precision float	CONF	936
3528	3529	Analog Input 5 Cal 1	IEEE single precision float	CONF	946
3530	3531	Analog Input 6 Cal 1	IEEE single precision float	CONF	956
3532	3533	Analog Input 1 Cal 2	IEEE single precision float	CONF	907
3534	3535	Analog Input 2 Cal 2	IEEE single precision float	CONF	917
3536	3537	Analog Input 3 Cal 2	IEEE single precision float	CONF	927
3538	3539	Analog Input 4 Cal 2	IEEE single precision float	CONF	937
3540	3541	Analog Input 5 Cal 2	IEEE single precision float	CONF	947
3542	3543	Analog Input 6 Cal 2	IEEE single precision float	CONF	957
3544	3545	Analog Input 1 Low Value	IEEE single precision float	CONF	908
3546	3547	Analog Input 2 Low Value	IEEE single precision float	CONF	918
3548	3549	Analog Input 3 Low Value	IEEE single precision float	CONF	928

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3550	3551	Analog Input 4 Low Value	IEEE single precision float	CONF	938
3552	3553	Analog Input 5 Low Value	IEEE single precision float	CONF	948
3554	3555	Analog Input 6 Low Value	IEEE single precision float	CONF	958
3556	3557	Analog Input 1 High Value	IEEE single precision float	CONF	909
3558	3559	Analog Input 2 High Value	IEEE single precision float	CONF	919
3560	3561	Analog Input 3 High Value	IEEE single precision float	CONF	929
3562	3563	Analog Input 4 High Value	IEEE single precision float	CONF	939
3564	3565	Analog Input 5 High Value	IEEE single precision float	CONF	949
3566	3567	Analog Input 6 High Value	IEEE single precision float	CONF	959
3568	3569	Analog Input 1 RTD Offset	IEEE single precision float	CONF	910
3570	3571	Analog Input 2 RTD Offset	IEEE single precision float	CONF	920
3572	3573	Analog Input 3 RTD Offset	IEEE single precision float	CONF	930
3574	3575	Analog Input 4 RTD Offset	IEEE single precision float	CONF	940
3576	3577	Analog Input 5 RTD Offset	IEEE single	CONF	950
3578	3579	Analog Input 6 RTD Offset	IEEE single	CONF	960
3584		Analog Input 1 Type	unsigned character	CONF	905
3585		Analog Input 2 Type	unsigned character	CONF	915
3586		Analog Input 3 Type	unsigned character	CONF	925
3587		Analog Input 4 Type	unsigned character	CONF	935
3588		Analog Input 5 Type	unsigned character	CONF	945
3589		Analog Input 6 Type	unsigned character	CONF	955
3590		Analog Input 1 Function	unsigned character	CONF	901
3591		Analog Input 2 Function	unsigned character	CONF	911
3592		Analog Input 3 Function	unsigned character	CONF	921
3593		Analog Input 4 Function	unsigned character	CONF	931
3594		Analog Input 5 Function	unsigned character	CONF	941
3595		Analog Input 6 Function	unsigned character	CONF	951
3596		Analog Input 1 Arm	unsigned character	CONF	902

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3597		Analog Input 2 Arm	unsigned character	CONF	912
3598		Analog Input 3 Arm	unsigned character	CONF	922
3599		Analog Input 4 Arm	unsigned character	CONF	932
3600		Analog Input 5 Arm	unsigned character	CONF	942
3601		Analog Input 6 Arm	unsigned character	CONF	952
3602		Analog Input 1 Mtr	unsigned character	CONF	903
3603		Analog Input 2 Mtr	unsigned character	CONF	913
3604		Analog Input 3 Mtr	unsigned character	CONF	923
3605		Analog Input 4 Mtr	unsigned character	CONF	933
3606		Analog Input 5 Mtr	unsigned character	CONF	943
3607		Analog Input 6 Mtr	unsigned character	CONF	953



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
3648	3663	Network Printer	Text (char{32})	SYS	787
3712	3727	Date	Text (char[32])	SYS	101
3728	3743	Time	Text (char[32])	SYS	102
3744	3759	Flow Rate Descriptor	Text (char[32])	SYS	112
3760	3775	Transaction ID Message	Text (char[32])	SYS	135
3776	3791	Volume Descriptor	Text (char[32])	SYS	303
3792	3807	Mass Descriptor	Text (char[32])	SYS	304
3808	3823	User Alarm 1 Message	Text (char[32])	SYS	686
3824	3839	User Alarm 2 Message	Text (char[32])	SYS	687
3840	3855	User Alarm 3 Message	Text (char[32])	SYS	688
3856	3871	User Alarm 4 Message	Text (char[32])	SYS	689
3872	3887	User Alarm 5 Message	Text (char[32])	SYS	690
3888	3903	User Alarm 6 Message	Text (char[32])	SYS	691
3904	3919	User Alarm 7 Message	Text (char[32])	SYS	692
3920	3935	User Alarm 8 Message	Text (char[32])	SYS	693
3936	3951	User Alarm 9 Message	Text (char[32])	SYS	694
3952	3967	User Alarm 10 Message	Text (char[32])	SYS	695
3968	3983	Additive Injection Units	Text (char[32])	SYS	805
3984	3999	Additive Totals Units	Text (char[32])	SYS	806
4000	4015	System Permissive #1 message	Text (char[32])	SYS	142
4016	4031	System Permissive #2 message	Text (char[32])	SYS	145
4032	4033	Pulse Out 1 Pulses/Volume	IEEE single precision float	CONF	203
4034	4035	Pulse Out 2 Pulses/Volume	IEEE single precision float	CONF	208
4036	4037	Pulse Out 1 Max Frequency	IEEE single precision float	CONF	205
4038	4039	Pulse Out 2 Max Frequency	IEEE single precision float	CONF	210
4040	4041	Maximum Preset	IEEE single precision float	SYS	311
4042	4043	Minimum Preset	IEEE single precision float	SYS	312
4044	4045	Auto Preset	IEEE single precision float	SYS	313
4046	4047	Auto Preset Increment	IEEE single precision float	SYS	314
4048	4049	Reference Temperature	IEEE single precision float	SYS	402
4050	4051	Add Injector Stop Volume	IEEE single precision float	SYS	804
4052	4053	Inject to Totals Convert	IEEE single precision float	SYS	807
4054	4055	Clean Line Additive	IEEE single precision float	SYS	808
4056	4057	Injector Alarm Pulse Count	IEEE single precision float	SYS	087
4058	4059	Injector Dual Pulse Error Count	IEEE single precision float	CONF	143
4060	4061	Pulse Output #3 Pulses Per Unit	IEEE singleprecision float	SYS	213

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4062	4063	Pulse Output #4 Pulses Per Unit	IEEE single precision float	SYS	218
4064	4065	Pulse Output #5 Pulses Per Unit	IEEE single precision float	SYS	223
4066	4067	Pulse Output #6 Pulses Per Unit	IEEE single precision float	SYS	215
4068	4069	Pulse Output #7 Pulses Per Unit	IEEE single precision float	SYS	220
4070	4071	Pulse Output #8 Pulses Per Unit	IEEE single precision float	SYS	225
4072	4073	Leakage Alarm Limit	IEEE single precision float	SYS	202
4074	4075	Reverse Flow Limit	IEEE single precision float	SYS	203
4096		Pulse Input Mode Select	Unsigned char	CONF	101
4097		Transmitter Intergrity	Unsigned char	CONF	102
4098		Pulse Output 1 Function	Unsigned char	CONF	201
4099		Pulse Output 2 Function	Unsigned char	CONF	206
4100		Pulse Output 1 Units	Unsigned char	CONF	204
4101		Pulse Output 2 Units	Unsigned char	CONF	209
4102		Flow Rate Time	unsigned character	SYS	111
4103		Dynamic Display Timeout	unsigned character	SYS	121
4104		Auto Reset Time	unsigned character	SYS	122
4105		Decimal/Comma Select	unsigned character	SYS	131
4106		Start Key Disable	unsigned character	SYS	132
4107		Default/Translated Literals	unsigned character	SYS	133
4108		Batches per Transaction	unsigned character	SYS	136
4109		Volume Units	unsigned character	SYS	301
4110		Mass Units	unsigned character	SYS	302
4111		Transaction Termination	unsigned character	SYS	315
4112		Auto Prove	unsigned character	SYS	321
4113		Proving Counters	unsigned character	SYS	322
4114		Run Display Options	unsigned character	SYS	331
4115		Preset Volume Type	unsigned character	SYS	332
4116		Delivered Volume Type	unsigned character	SYS	333
4117		Display Resolution	unsigned character	SYS	334
4118		Temperature Units	unsigned character	SYS	401
4119		Density Units	unsigned character	SYS	411
4120		Pressure Units	unsigned character	SYS	501
4121		Run/Ready Alarm Clearing	unsigned character	SYS	601
4122		Comm Programming Link	unsigned character	SYS	731
4123		Modbus Endian Selection	unsigned character	SYS	732
4124		Auto or Manual Injectors	unsigned character	SYS	801

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4125		Add Injector Pacing Units	unsigned character	SYS	802
4126		Add Injector Stop Option	unsigned character	SYS	803
4127		Piston Feedback Errors	unsigned character	SYS	809
4128		Number of Load Arms	unsigned character	CONF	001
4129		Arm 1 Config	unsigned character	CONF	002
4130		Arm 1 Product	unsigned character	CONF	003
4131		Arm 2 Config	unsigned character	CONF	004
4132		Arm 2 Product	unsigned character	CONF	005
4133		Number of Additives	unsigned character	CONF	020
4134		Recipes per Transaction	unsigned character	SYS	316
4135		Arm 1 Comm Address	unsigned character	SYS	701
4136		Arm 2 Comm Address	unsigned character	SYS	702
4137		Arm 3 Comm Address	unsigned character	SYS	703
4138		Arm 4 Comm Address	unsigned character	SYS	704
4139		Powerfail Alarm Disable	unsigned character	SYS	137
4140		Arm 3 Config	unsigned character	CONF	006
4141		Arm 3 Product	unsigned character	CONF	007
4142		Arm 4 Config	unsigned character	CONF	008
4143		Arm 4 Product	unsigned character	CONF	009
4144		Window Zoom reset timer	unsigned character	SYS	123
4145		Pulse Output #1 Meter	unsigned character	CONF	202
4146		Pulse Output #2 Meter	unsigned character	CONF	207
4147		Arm 5 Config	unsigned character	CONF	010
4148		Arm 5 Product	unsigned character	CONF	011
4149		Arm 6 Config	unsigned character	CONF	012
4150		Arm 6 Product	unsigned character	CONF	013
4151		Stop Key Action	unsigned character	SYS	138
4152		Arm 5 Comm Address	unsigned character	SYS	705
4153		Arm 6 Comm Address	unsigned character	SYS	706
4154		System Status Display	unsigned character	SYS	139
4155		System Permissive 1 Type	unsigned character	SYS	141
4156		System Permissive 1 Restart	unsigned character	SYS	143
4157		System Permissive 2 Type	unsigned character	SYS	144
4158		System Permissive 2 Restart	unsigned character	SYS	146
4159		System Permissive 3 Type	unsigned character	SYS	147
4160	4161	Transaction ID	unsigned long integer	SYS	134

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4162	4163	Injector Alarm Pulse Time	unsigned long integer	SYS	088
4164	4165	Additive Stop Disable	unsigned long integer	SYS	098
4166	4167	IP Address	unsigned long integer	SYS	735
4168	4169	net mask	unsigned long integer	SYS	736
4170	4171	Gateway	unsigned long integer	SYS	737
4172	4173	MAC Address – LSW	unsigned long integer	SYS	n/a
4174	4178	MAC Address – MSQ	unsigned long integer	SYS	n/a
4176	4177	DNS Server IP	unsigned long integer	SYS	780
4178	4179	Solenoid Alarm Count	unsigned long integer	SYS	201
4224		System Permissive 3 Restart	unsigned character	SYS	149
4225		RBM Product Map, Arm 1	unsigned character	SYS	761
4226		RBM Product Map, Arm 2	unsigned character	SYS	762
4227		RBM Product Map, Arm 3	unsigned character	SYS	763
4228		RBM Product Map, Arm 4	unsigned character	SYS	764
4229		RBM Product Map, Arm 5	unsigned character	SYS	765
4230		RBM Product Map, Arm 6	unsigned character	SYS	766
4231		Comm Timeout Action	unsigned character	SYS	733
4232		Inhibit Auto Focus	unsigned character	SYS	734
4233		Pulse In Type	unsigned character	SYS	305
4234		Prover Out Meter	unsigned character	SYS	323
4235		Card Reader Validation Mode	unsigned character	SYS	771
4236		Card Data Timeout	unsigned character	SYS	772
4237		Piston Stop Action	unsigned character	SYS	026
4238		Transaction Start	unsigned character	SYS	317
4239		Delivered Amount Display	unsigned character	SYS	335
4240		Add Totals	unsigned character	SYS	093
4241		Card Reader Configuration	unsigned character	SYS	773
4242		Injector Pulse Mode	unsigned character	CONF	142
4243		Injector Error Reset	unsigned character	CONF	144
4244		Injector Error Amount	unsigned character	CONF	145
4245		Number of Ratio Products for Arm 1	unsigned character	CONF	014
4246		Number of Ratio Products for Arm 2	unsigned character	CONF	015
4247		Number of Ratio Products for Arm 3	unsigned character	CONF	016
4248		Number of Ratio Products for Arm 4	unsigned character	CONF	017
4249		Number of Ratio Products for Arm 5	unsigned character	CONF	018
4250		Number of Ratio Products for Arm 6	unsigned character	CONF	019

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4251		Accumulate Reverse Volume (Batch)	unsigned character	CONF	146
4252		Accumulate Reverse Volume (NR)	unsigned character	CONF	147
4253		Pulse Out #3 Function	unsigned character	CONF	211
4254		Pulse Out #4 Function	unsigned character	CONF	216
4255		Pulse Out #5 Function	unsigned character	CONF	221
4256		Pulse Out #3 Units	unsigned character	CONF	214
4257		Pulse Out #4 Units	unsigned character	CONF	219
4258		Pulse Out #5 Units	unsigned character	CONF	224
4259		Pulse Out #3 Meter	unsigned character	CONF	212
4260		Pulse Out #4 Meter	unsigned character	CONF	217
4261		Pulse Out #5 Meter	unsigned character	CONF	222
4262		Density Prompt	unsigned character	SYS	412
4263		Ethernet Host Control	unsigned character	SYS	738
4264		User Text Archived	unsigned character	SYS	777
4265		Stop Key Disable	unsigned character	SYS	140
4266		Blue Tooth Master	unsigned character	SYS	788
4267		Additive Stop Pump Action	unsigned character	SYS	099
4268		Update Leakage	unsigned character	SYS	336
4269		Card Authorize	unsigned character	SYS	774
4270		Print Standby	unsigned character	SYS	727
4271		Auto Reprint	unsigned character	SYS	728
4272		Printer Auto Tear Off	unsigned character	SYS	729
4288	4303	System Permissive 3 Message	Text (char[32])	SYS	148
4304	4319	MAC Address (Read Only)	Text (char[32])	SYS	103
4320	4335	SMTP Server	Text (char[32])	SYS	781
4336	4351	POP3 Server	Text (char[32])	SYS	782
4352	4367	Prompt 1 Message	Text (char[32])	SYS	743
4368	4383	Prompt 2 Message	Text (char[32])	SYS	746
4384	4399	Prompt 3 Message	Text (char[32])	SYS	749
4400	4415	Prompt 4 Message	Text (char[32])	SYS	752
4416	4431	Prompt 5 Message	Text (char[32])	SYS	755
4480		Prompts Used	unsigned char	SYS	741
4481		Prompt Timeout	unsigned character	SYS	742
4482		Prompt 1 Input Type	unsigned character	SYS	744
4483		Prompt 1 Length	unsigned character	SYS	745
4484		Prompt 2 Input Type	unsigned character	SYS	747

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4485		Prompt 2 Length	unsigned character	SYS	748
4486		Prompt 3 Input Type	unsigned character	SYS	750
4487		Prompt 3 Length	unsigned character	SYS	751
4488		Prompt 4 Input Type	unsigned character	SYS	753
4489		Prompt 4 Length	unsigned character	SYS	754
4490		Prompt 5 Input Type	unsigned character	SYS	756
4491		Prompt 5 Length	unsigned character	SYS	757
4492		Prompt Mode	unsigned character	SYS	740
4493		Prompt Validation	unsigned character	SYS	758
4544	4559	Email Account User Name	Text (char[32])	SYS	783
4560	4575	Email Account Password	Text (char[32])	SYS	784
4576	4591	Email Notification Destination Address	Text (char[32])	SYS	785
4592	4607	Email Reply to Address	Text (char[32])	SYS	786
4609		Back Pressure Alarm configuration	unsigned character	SYS	603
4610		Communications Alarm configuration	unsigned character	SYS	604
4611		Density Transducer Alarm configuration	unsigned character	SYS	605
4612		Additive Feedback Error configuration	unsigned character	SYS	606
4613		High Density Alarm configuration	unsigned character	SYS	607
4614		High Flow Alarm configuration	unsigned character	SYS	608
4615		High Pressure Alarm configuration	unsigned character	SYS	609
4616		High Temperature Alarm configuration	unsigned character	SYS	610
4617		Low Additive Alarm configuration	unsigned character	SYS	611
4618		Low Density Alarm configuration	unsigned character	SYS	612
4619		Low Flow Alarm configuration	unsigned character	SYS	613
4620		Low Pressure Alarm configuration	unsigned character	SYS	614
4621		Low Temperature Alarm configuration	unsigned character	SYS	615
4622		Excess Additive Pulses configuration	unsigned character	SYS	616

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4623		No Additive Pulses Alarm configuration	unsigned character	SYS	617
4624		Overrun Alarm configuration	unsigned character	SYS	618
4625		Transmitter Integrity Alarm configuration	unsigned character	SYS	619
4626		Pressure Transducer Alarm configuration	unsigned character	SYS	620
4627		Pulse Security Alarm configuration	unsigned character	SYS	621
4628		Additive Frequency Alarm configuration	unsigned character	SYS	622
4629		Shared Printer Alarm configuration	unsigned character	SYS	623
4630		Temperature Transducer Alarm configuration	unsigned character	SYS	624
4631		Valve Fault Alarm configuration	unsigned character	SYS	625
4632		Add Unauthorized Fail configuration	unsigned character	SYS	626
4633		Zero Flow Alarm configuration	unsigned character	SYS	627
4634		Add Injector Error configuration	unsigned character	SYS	628
4635		Over Rev Metered Injector configuration	unsigned character	SYS	629
4636		Additive Clean Line configuration	unsigned character	SYS	630
4637		Injector Command Rejected configuration	unsigned character	SYS	631
4638		Ticket Alarm configuration	unsigned character	SYS	632
4639		CIVACON Comm Failure configuration	unsigned character	SYS	633
4640		Clean Line Alarm configuration	unsigned character	SYS	634
4641		Block Valve Alarm configuration	unsigned character	SYS	635
4642		Blend High Alarm configuration	unsigned character	SYS	636
4643		Blend Low Alarm configuration	unsigned character	SYS	637
4644		Product Overrun Alarm configuration	unsigned character	SYS	638
4645		Product Zero Flow Alarm configuration	unsigned character	SYS	639

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4646		Unauthorized Flow Alarm configuration	unsigned character	SYS	640
4647		PTB Printer Failure Alarm configuration	unsigned character	SYS	641
4648		Turbine Meter Alarm configuration	unsigned character	SYS	642
4649		Auto Detect Failed configuration	unsigned character	SYS	643
4650		Add-Pack Power-fail Alarm configuration	unsigned character	SYS	644
4651		Add-Pack Diagnostic Alarm configuration	unsigned character	SYS	645
4652		AICB Auto-Detect Failed configuration	unsigned character	SYS	646
4653		AICB Comm Failure configuration	unsigned character	SYS	647
4654		MMI Comm Failure configuration	unsigned character	SYS	647
4655		MMI Excess Active Arms Alarm configuration	unsigned character	SYS	647
4656		Storage Full Alarm configuration	unsigned character	SYS	647
4657		DE Head Alarm Configuration	unsigned character	SYS	651
4658		Mass Meter Communications Alarm configuration	unsigned character	SYS	652
4659		Mass Meter Overdrive Alarm configuration	unsigned character	SYS	653
4660		Mass Meter Tube Alarm configuration	unsigned character	SYS	654
4661		Additive High Temperature Alarm configuration	unsigned character	SYS	655
4662		Additive Low Temperature Alarm configuration	unsigned character	SYS	656
4663		Additive Probe Failure Alarm configuration	unsigned character	SYS	657
4664		Card Removed	unsigned character	SYS	658
4665		Flow Controlled Additive Pulse Security	unsigned character	SYS	659
4666		Flow Controlled Additive Transmitter Integrity	unsigned character	SYS	660
4667		Product Stop	unsigned character	SYS	661



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4668		Additive Comm Value	unsigned character	SYS	662
4669		ComFlash Memory Alarm	unsigned character	SYS	663
4670		Network Printer Alarm Configuration	unsigned character	SYS	664
4671		F.A Sening Alarm Configuration	unsigned character	SYS	665
4672	4673	Flow Control Injector #1 Reference Density	IEEE single precision float	SYS	064
4674	4675	Flow Control Injector #1 Maintenance Temperature	IEEE single precision float	SYS	066
4676	4677	Flow Control Injector #1 High Temp Alarm Limit	IEEE single precision float	SYS	067
4678	4679	Flow Control Injector #1 Low Temp Alarm Limit	IEEE single precision float	SYS	068
4680	4681	Flow Control Injector #2 Reference Density	IEEE single precision float	SYS	070
4682	4683	Flow Control Injector #2 Maintenance Temperature	IEEE single precision float	SYS	072
4684	4685	Flow Control Injector #2 High Temp Alarm Limit	IEEE single precision float	SYS	073
4684	4685	Flow Control Injector #2 High Temp Alarm Limit	IEEE single precision float	SYS	073
4686	4687	Flow Control Injector #2 Low Temp Alarm Limit	IEEE single precision float	SYS	074
4688	4689	Flow Control Injector #3 Reference Density	IEEE single precision float	SYS	076
4690	4691	Flow Control Injector #3 Maintenance Temperature	IEEE single precision float	SYS	078
4692	4693	Flow Control Injector #3 High Temp Alarm Limit	IEEE single precision float	SYS	079
4694	4695	Flow Control Injector #3 Low Temp Alarm Limit	IEEE single precision float	SYS	080
4696	4697	Flow Control Injector #4 Reference Density	IEEE single precision float	SYS	082
4698	4699	Flow Control Injector #4 Maintenance Temperature	IEEE single precision float	SYS	083
4700	4701	Flow Control Injector #4 High Temp Alarm Limit	IEEE single precision float	SYS	085
4702	4703	Flow Control Injector #4 Low Temp Alarm Limit	IEEE single precision float	SYS	086
4704	4705	Flow Control Injector #1 Low Flow Cutoff	IEEE single precision float	SYS	094
4706	4707	Flow Control Injector #2 Low Flow Cutoff	IEEE single precision float	SYS	095

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4708	4709	Flow Control Injector #3 Low Flow Cutoff	IEEE single precision float	SYS	096
4710	4711	Flow Control Injector #4 Low Flow Cutoff	IEEE single precision float	SYS	097
4736		User Alarm 1	unsigned character	SYS	671
4737		User Alarm 2	unsigned character	SYS	672
4738		User Alarm 3	unsigned character	SYS	673
4739		User Alarm 4	unsigned character	SYS	674
4740		User Alarm 5	unsigned character	SYS	675
4741		User Alarm 6	unsigned character	SYS	676
4742		User Alarm 7	unsigned character	SYS	677
4743		User Alarm 8	unsigned character	SYS	678
4744		User Alarm 9	unsigned character	SYS	679
4745		User Alarm 10	unsigned character	SYS	680
4800	4801	Flow Ctrl Inj #1 Minimum Flow Rate	IEEE single precision float	SYS	027
4802	4803	Flow Ctrl Inj #1 Maximum Flow Rate	IEEE single precision float	SYS	028
4804	4805	Flow Ctrl Inj #1 Flow Rate Tolerance	IEEE single precision float	SYS	029
4806	4807	Flow Ctrl Inj #1 Second Trip Point	IEEE single precision float	SYS	030
4808	4809	Flow Ctrl Inj #2 Minimum Flow Rate	IEEE single precision float	SYS	031
4810	4811	Flow Ctrl Inj #2 Maximum Flow Rate	IEEE single precision float	SYS	032
4812	4813	Flow Ctrl Inj #2 Flow Rate Tolerance	IEEE single precision float	SYS	033
4814	4815	Flow Ctrl Inj #2 Second Trip Point	IEEE single precision float	SYS	034
4816	4817	Flow Ctrl Inj #3 Minimum Flow Rate	IEEE single precision float	SYS	035
4818	4819	Flow Ctrl Inj #3 Maximum Flow Rate	IEEE single precision float	SYS	036
4820	4821	Flow Ctrl Inj #3 Flow Rate Tolerance	IEEE single precision float	SYS	037
4822	4823	Flow Ctrl Inj #3 Second Trip Point	IEEE single precision float	SYS	038
4824	4825	Flow Ctrl Inj #4 Minimum Flow Rate	IEEE single precision float	SYS	039
4826	4827	Flow Ctrl Inj #4 Maximum Flow Rate	IEEE single precision float	SYS	040

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4828	4829	Flow Ctrl Inj #4 Flow Rate Tolerance	IEEE single precision float	SYS	041
4830	4831	Flow Ctrl Inj #4 Second Trip Point	IEEE single precision float	SYS	042
4832	4833	Flow Ctrl Inj #1 Kp	IEEE single precision float	SYS	044
4834	4835	Flow Ctrl Inj #2 Kp	IEEE single precision float	SYS	049
4836	4837	Flow Ctrl Inj #3 Kp	IEEE single precision float	SYS	054
4838	4839	Flow Ctrl Inj #4 Kp	IEEE single precision float	SYS	059
4840	4841	Flow Ctrl Inj #1 Ki	IEEE single precision float	SYS	045
4842	4843	Flow Ctrl Inj #2 Ki	IEEE single precision float	SYS	050
4844	4845	Flow Ctrl Inj #3 Ki	IEEE single precision float	SYS	055
4846	4847	Flow Ctrl Inj #4 Ki	IEEE single precision float	SYS	060
4848	4849	Flow Ctrl Inj #1 Kd	IEEE single precision float	SYS	046
4850	4851	Flow Ctrl Inj #2 Kd	IEEE single precision float	SYS	051
4852	4853	Flow Ctrl Inj #3 Kd	IEEE single precision float	SYS	056
4854	4855	Flow Ctrl Inj #4 Kd	IEEE single precision float	SYS	061
4856	4857	Flow Ctrl Inj #1 PID Interval	IEEE single precision float	SYS	047
4858	4859	Flow Ctrl Inj #2 PID Interval	IEEE single precision float	SYS	052
4860	4861	Flow Ctrl Inj #3 PID Interval	IEEE single precision float	SYS	057
4862	4863	Flow Ctrl Inj #4 PID Interval	IEEE single precision float	SYS	062
4864		Comm 1 Function	unsigned character	SYS	707
4865		Comm 2 Function	unsigned character	SYS	712
4866		Comm 3 Function	unsigned character	SYS	717
4867		Comm 4 Function	unsigned character	SYS	722
4868		Comm 1 Baud Rate	unsigned character	SYS	708
4869		Comm 2 Baud Rate	unsigned character	SYS	713
4870		Comm 3 Baud Rate	unsigned character	SYS	718
4871		Comm 4 Baud Rate	unsigned character	SYS	723
4872		Comm 1 Data/Parity	unsigned character	SYS	709
4873		Comm 2 Data/Parity	unsigned character	SYS	714
4874		Comm 3 Data/Parity	unsigned character	SYS	719
4875		Comm 4 Data/Parity	unsigned character	SYS	724
4876		Comm 1 Control	unsigned character	SYS	710
4877		Comm 2 Control	unsigned character	SYS	715
4878		Comm 3 Control	unsigned character	SYS	720
4879		Comm 4 Control	unsigned character	SYS	725
4928		Comm 1 Timeout	unsigned integer	SYS	711

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
4929		Comm 2 Timeout	unsigned integer	SYS	716
4930		Comm 3 Timeout	unsigned integer	SYS	721
4931		Comm 4 Timeout	unsigned integer	SYS	726
4932		Ethernet Timeout	unsigned integer	SYS	739
4992	4993	Metered Injector 17 K Factor	IEEE single precision float	SYS	986
4994	4995	Metered Injector 17 Meter Factor	IEEE single precision float	SYS	987
4996	4997	Metered Injector 17 High Tolerance	IEEE single precision float	SYS	988
4998	4999	Metered Injector 17 Low Tolerance	IEEE single precision float	SYS	989
5000	5001	Metered Injector 18 K Factor	IEEE single precision float	SYS	991
5002	5003	Metered Injector 18 Meter Factor	IEEE single precision float	SYS	992
5004	5005	Metered Injector 18High Tolerance	IEEE single precision float	SYS	993
5006	5007	Metered Injector 18 Low Tolerance	IEEE single precision float	SYS	994
5008	5009	Metered Injector 19 K Factor	IEEE single precision float	SYS	996
5010	5011	Metered Injector 19 Meter Factor	IEEE single precision float	SYS	997
5012	5013	Metered Injector 19 High Tolerance	IEEE single precision float	SYS	998
5014	5015	Metered Injector 19 Low Tolerance	IEEE single precision float	SYS	999
5016	5017	Metered Injector 20 K Factor	IEEE single precision float	SYS	001
5018	5019	Metered Injector 20 Meter Factor	IEEE single precision float	SYS	002
5020	5021	Metered Injector 20 High Tolerance	IEEE single precision float	SYS	003
5022	5023	Metered Injector 20 Low Tolerance	IEEE single precision float	SYS	004
5024	5025	Metered Injector 21 K Factor	IEEE single precision float	SYS	006
5026	5027	Metered Injector 21 Meter Factor	IEEE single precision float	SYS	007
5028	5029	Metered Injector 21 High Tolerance	IEEE single precision float	SYS	008
5030	5031	Metered Injector 21 Low Tolerance	IEEE single precision float	SYS	009
5032	5033	Metered Injector 22 K Factor	IEEE single precision float	SYS	011
5034	5035	Metered Injector 22 Meter Factor	IEEE single precision float	SYS	012
5036	5037	Metered Injector 22 High Tolerance	IEEE single precision float	SYS	013
5038	5039	Metered Injector 22 Low Tolerance	IEEE single precision float	SYS	014
5040	5041	Metered Injector 23 K Factor	IEEE single precision float	SYS	016
5042	5043	Metered Injector 23 Meter Factor	IEEE single precision float	SYS	017
5044	5045	Metered Injector 23 High Tolerance	IEEE single precision float	SYS	018
5046	5047	Metered Injector 23 Low Tolerance	IEEE single precision float	SYS	019
5048	5049	Metered Injector 24 K Factor	IEEE single precision float	SYS	021
5050	5051	Metered Injector 24 Meter Factor	IEEE single precision float	SYS	022
5052	5053	Metered Injector 24 High Tolerance	IEEE single precision float	SYS	023
5054	5055	Metered Injector 24 Low Tolerance	IEEE single precision float	SYS	024

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5056	5057	Metered Injector 1 K Factor	IEEE single precision float	SYS	906
5058	5059	Metered Injector 1 Meter Factor	IEEE single precision float	SYS	907
5060	5061	Metered Injector 1 High Tolerance	IEEE single precision float	SYS	908
5062	5063	Metered Injector 1 Low Tolerance	IEEE single precision float	SYS	909
5064	5065	Metered Injector 2 K Factor	IEEE single precision float	SYS	911
5066	5067	Metered Injector 2 Meter Factor	IEEE single precision float	SYS	912
5068	5069	Metered Injector 2 High Tolerance	IEEE single precision float	SYS	913
5070	5071	Metered Injector 2 Low Tolerance	IEEE single precision float	SYS	914
5072	5073	Metered Injector 3 K Factor	IEEE single precision float	SYS	916
5074	5075	Metered Injector 3 Meter Factor	IEEE single precision float	SYS	917
5076	5077	Metered Injector 3 High Tolerance	IEEE single precision float	SYS	918
5078	5079	Metered Injector 3 Low Tolerance	IEEE single precision float	SYS	919
5080	5081	Metered Injector 4 K Factor	IEEE single precision float	SYS	921
5082	5083	Metered Injector 4 Meter Factor	IEEE single precision float	SYS	922
5084	5085	Metered Injector 4 High Tolerance	IEEE single precision float	SYS	923
5086	5087	Metered Injector 4 Low Tolerance	IEEE single precision float	SYS	924
5088	5089	Metered Injector 5 K Factor	IEEE single precision float	SYS	926
5090	5091	Metered Injector 5 Meter Factor	IEEE single precision float	SYS	927
5092	5093	Metered Injector 5 High Tolerance	IEEE single precision float	SYS	928
5094	5095	Metered Injector 5 Low Tolerance	IEEE single precision float	SYS	931
5096	5097	Metered Injector 6 K Factor	IEEE single precision float	SYS	932
5098	5099	Metered Injector 6 Meter Factor	IEEE single precision float	SYS	933
5100	5101	Metered Injector 6 High Tolerance	IEEE single precision float	SYS	934
5102	5103	Metered Injector 6 Low Tolerance	IEEE single precision float	SYS	935
5104	5105	Metered Injector 7 K Factor	IEEE single precision float	SYS	936
5106	5107	Metered Injector 7 Meter Factor	IEEE single precision float	SYS	937
5108	5109	Metered Injector 7 High Tolerance	IEEE single precision float	SYS	938
5110	5111	Metered Injector 7 Low Tolerance	IEEE single precision float	SYS	939
5112	5113	Metered Injector 8 K Factor	IEEE single precision float	SYS	941
5114	5115	Metered Injector 8 Meter Factor	IEEE single precision float	SYS	942
5116	5117	Metered Injector 8 High Tolerance	IEEE single precision float	SYS	943
5118	5119	Metered Injector 8 Low Tolerance	IEEE single precision float	SYS	944
5120		Additive Injector 1 Type	unsigned character	SYS	810
5121		Additive Injector 2 Type	unsigned character	SYS	813
5122		Additive Injector 3 Type	unsigned character	SYS	816
5123		Additive Injector 4 Type	unsigned character	SYS	819

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5124		Additive Injector 5 Type	unsigned character	SYS	822
5125		Additive Injector 6 Type	unsigned character	SYS	825
5126		Additive Injector 7 Type	unsigned character	SYS	828
5127		Additive Injector 8 Type	unsigned character	SYS	831
5128		Additive Injector 9 Type	unsigned character	SYS	834
5129		Additive Injector 10 Type	unsigned character	SYS	837
5130		Additive Injector 11 Type	unsigned character	SYS	840
5131		Additive Injector 12 Type	unsigned character	SYS	843
5132		Additive Injector 13 Type	unsigned character	SYS	846
5133		Additive Injector 14 Type	unsigned character	SYS	849
5134		Additive Injector 15 Type	unsigned character	SYS	852
5135		Additive Injector 16 Type	unsigned character	SYS	855
5136		Additive Injector 17 Type	unsigned character	SYS	858
5137		Additive Injector 18 Type	unsigned character	SYS	861
5138		Additive Injector 19 Type	unsigned character	SYS	864
5139		Additive Injector 20 Type	unsigned character	SYS	867
5140		Additive Injector 21 Type	unsigned character	SYS	870
5141		Additive Injector 22 Type	unsigned character	SYS	873
5142		Additive Injector 23 Type	unsigned character	SYS	876
5143		Additive Injector 24 Type	unsigned character	SYS	879
5144		Additive 1 Arm	unsigned character	SYS	811
5145		Additive 2 Arm	unsigned character	SYS	814
5146		Additive 3 Arm	unsigned character	SYS	817
5147		Additive 4 Arm	unsigned character	SYS	820
5148		Additive 5 Arm	unsigned character	SYS	823
5149		Additive 6 Arm	unsigned character	SYS	826
5150		Additive 7 Arm	unsigned character	SYS	829
5151		Additive 8 Arm	unsigned character	SYS	832
5152		Additive 9 Arm	unsigned character	SYS	835
5153		Additive 10 Arm	unsigned character	SYS	838
5154		Additive 11 Arm	unsigned character	SYS	841
5155		Additive 12 Arm	unsigned character	SYS	844
5156		Additive 13 Arm	unsigned character	SYS	847
5157		Additive 14 Arm	unsigned character	SYS	850
5158		Additive 15 Arm	unsigned character	SYS	853
5159		Additive 16 Arm	unsigned character	SYS	856

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5160		Additive 17 Arm	unsigned character	SYS	859
5161		Additive 18 Arm	unsigned character	SYS	862
5162		Additive 19 Arm	unsigned character	SYS	865
5163		Additive 20 Arm	unsigned character	SYS	868
5164		Additive 21 Arm	unsigned character	SYS	871
5165		Additive 22 Arm	unsigned character	SYS	874
5166		Additive 23 Arm	unsigned character	SYS	877
5167		Additive 24 Arm	unsigned character	SYS	880
5168		Additive 1 Plumbing	unsigned character	SYS	812
5169		Additive 2 Plumbing	unsigned character	SYS	815
5170		Additive 3 Plumbing	unsigned character	SYS	818
5171		Additive 4 Plumbing	unsigned character	SYS	821
5172		Additive 5 Plumbing	unsigned character	SYS	824
5173		Additive 6 Plumbing	unsigned character	SYS	827
5174		Additive 7 Plumbing	unsigned character	SYS	830
5175		Additive 8 Plumbing	unsigned character	SYS	833
5176		Additive 9 Plumbing	unsigned character	SYS	836
5177		Additive 10 Plumbing	unsigned character	SYS	839
5178		Additive 11 Plumbing	unsigned character	SYS	842
5179		Additive 12 Plumbing	unsigned character	SYS	845
5180		Additive 13 Plumbing	unsigned character	SYS	848
5181		Additive 14 Plumbing	unsigned character	SYS	851
5182		Additive 15 Plumbing	unsigned character	SYS	854
5183		Additive 16 Plumbing	unsigned character	SYS	857
5184		Additive 17 Plumbing	unsigned character	SYS	860
5185		Additive 18 Plumbing	unsigned character	SYS	863
5186		Additive 19 Plumbing	unsigned character	SYS	866
5187		Additive 20 Plumbing	unsigned character	SYS	869
5188		Additive 21 Plumbing	unsigned character	SYS	872
5189		Additive 22 Plumbing	unsigned character	SYS	875
5190		Additive 23 Plumbing	unsigned character	SYS	878
5191		Additive 24 Plumbing	unsigned character	SYS	881
5192		Metered Injector 1 Maximum Tolerance Error	unsigned character	SYS	910
5193		Metered Injector 2 Maximum Tolerance Error	unsigned character	SYS	915

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5194		Metered Injector 3 Maximum Tolerance Error	unsigned character	SYS	920
5195		Metered Injector 4 Maximum Tolerance Error	unsigned character	SYS	925
5196		Metered Injector 5 Maximum Tolerance Error	unsigned character	SYS	930
5197		Metered Injector 6 Maximum Tolerance Error	unsigned character	SYS	935
5198		Metered Injector 7 Maximum Tolerance Error	unsigned character	SYS	940
5199		Metered Injector 8 Maximum Tolerance Error	unsigned character	SYS	945
5200		Metered Injector 9 Maximum Tolerance Error	unsigned character	SYS	950
5201		Metered Injector 10 Maximum Tolerance Error	unsigned character	SYS	955
5202		Metered Injector 11 Maximum Tolerance Error	unsigned character	SYS	960
5203		Metered Injector 12 Maximum Tolerance Error	unsigned character	SYS	965
5204		Metered Injector 13 Maximum Tolerance Error	unsigned character	SYS	970
5205		Metered Injector 14 Maximum Tolerance Error	unsigned character	SYS	975
5206		Metered Injector 15 Maximum Tolerance Error	unsigned character	SYS	980
5207		Metered Injector 16 Maximum Tolerance Error	unsigned character	SYS	985
5208		Metered Injector 17 Maximum Tolerance Error	unsigned character	SYS	990
5209		Metered Injector 18 Maximum Tolerance Error	unsigned character	SYS	995
5210		Metered Injector 19 Maximum Tolerance Error	unsigned character	SYS	000
5211		Metered Injector 20 Maximum Tolerance Error	unsigned character	SYS	005
5212		Metered Injector 21 Maximum Tolerance Error	unsigned character	SYS	010
5213		Metered Injector 22 Maximum Tolerance Error	unsigned character	SYS	015
5214		Metered Injector 23 Maximum Tolerance Error	unsigned character	SYS	020
5215		Metered Injector 24 Maximum Tolerance Error	unsigned character	SYS	025



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5216		Flow Control Injector #1 Valve Type	unsigned character	SYS	043
5217		Flow Control Injector #2 Valve Type	unsigned character	SYS	048
5218		Flow Control Injector #3 Valve Type	unsigned character	SYS	053
5219		Flow Control Injector #4 Valve Type	unsigned character	SYS	058
5220		Flow Control Injector #1 API Table	unsigned character	SYS	063
5221		Flow Control Injector #2 API Table	unsigned character	SYS	069
5222		Flow Control Injector #3 API Table	unsigned character	SYS	075
5223		Flow Control Injector #4 API Table	unsigned character	SYS	081
5224		Flow Control Injector #1 Share Temp	unsigned character	SYS	065
5225		Flow Control Injector #2 Share Temp	unsigned character	SYS	071
5226		Flow Control Injector #3 Share Temp	unsigned character	SYS	077
5227		Flow Control Injector #4 Share Temp	unsigned character	SYS	083
5228		Flow Control Injector #1 Flow Timeout	unsigned character	SYS	089
5229		Flow Control Injector #2 Flow Timeout	unsigned character	SYS	090
5230		Flow Control Injector #3 Flow Timeout	unsigned character	SYS	091
5231		Flow Control Injector #4 Flow Timeout	unsigned character	SYS	092
5248		Add Injector 1 Address	unsigned integer	SYS	882
5249		Add Injector 2 Address	unsigned integer	SYS	883
5250		Add Injector 3 Address	unsigned integer	SYS	884
5251		Add Injector 4 Address	unsigned integer	SYS	885
5252		Add Injector 5 Address	unsigned integer	SYS	886
5253		Add Injector 6 Address	unsigned integer	SYS	887
5254		Add Injector 7 Address	unsigned integer	SYS	888
5255		Add Injector 8 Address	unsigned integer	SYS	889
5256		Add Injector 9 Address	unsigned integer	SYS	890
5257		Add Injector 10 Address	unsigned integer	SYS	891
5258		Add Injector 11 Address	unsigned integer	SYS	892
5259		Add Injector 12 Address	unsigned integer	SYS	893
5260		Add Injector 13 Address	unsigned integer	SYS	894

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5261		Add Injector 14 Address	unsigned integer	SYS	895
5262		Add Injector 15 Address	unsigned integer	SYS	896
5263		Add Injector 16 Address	unsigned integer	SYS	897
5264		Add Injector 17 Address	unsigned integer	SYS	898
5265		Add Injector 18 Address	unsigned integer	SYS	899
5266		Add Injector 19 Address	unsigned integer	SYS	900
5267		Add Injector 20 Address	unsigned integer	SYS	901
5268		Add Injector 21 Address	unsigned integer	SYS	902
5269		Add Injector 22 Address	unsigned integer	SYS	903
5270		Add Injector 23 Address	unsigned integer	SYS	904
5271		Add Injector 24 Address	unsigned integer	SYS	905
5312	5313	Metered Injector 9 K Factor	IEEE single precision float	SYS	946
5314	5315	Metered Injector 9 Meter Factor	IEEE single precision float	SYS	947
5316	5317	Metered Injector 9 High Tolerance	IEEE single precision float	SYS	948
5318	5319	Metered Injector 9 Low Tolerance	IEEE single precision float	SYS	949
5320	5321	Metered Injector 10 K Factor	IEEE single precision float	SYS	951
5322	5323	Metered Injector 10 Meter Factor	IEEE single precision float	SYS	952
5324	5325	Metered Injector 10 High Tolerance	IEEE single precision float	SYS	953
5326	5327	Metered Injector 10 Low Tolerance	IEEE single precision float	SYS	954
5328	5329	Metered Injector 11 K Factor	IEEE single precision float	SYS	956
5330	5331	Metered Injector 11 Meter Factor	IEEE single precision float	SYS	957
5332	5333	Metered Injector 11 High Tolerance	IEEE single precision float	SYS	958
5334	5335	Metered Injector 11 Low Tolerance	IEEE single precision float	SYS	959
5336	5337	Metered Injector 12 K Factor	IEEE single precision float	SYS	961
5338	5339	Metered Injector 12 Meter Factor	IEEE single precision float	SYS	962
5340	5341	Metered Injector 12 High Tolerance	IEEE single precision float	SYS	963
5342	5343	Metered Injector 12 Low Tolerance	IEEE single precision float	SYS	964
5344	5345	Metered Injector 13 K Factor	IEEE single precision float	SYS	966
5346	5347	Metered Injector 13 Meter Factor	IEEE single precision float	SYS	967
5348	5349	Metered Injector 13 High Tolerance	IEEE single precision float	SYS	968
5350	5351	Metered Injector 13 Low Tolerance	IEEE single precision float	SYS	969
5352	5353	Metered Injector 14 K Factor	IEEE single precision float	SYS	971
5354	5355	Metered Injector 14 Meter Factor	IEEE single precision float	SYS	972
5356	5357	Metered Injector 14 High Tolerance	IEEE single precision float	SYS	973
5358	5359	Metered Injector 14 Low Tolerance	IEEE single precision float	SYS	974
5360	5361	Metered Injector 15 K Factor	IEEE single precision float	SYS	975

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

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<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Point</b>	<b>Data Type</b>	<b>Menu</b>	<b>Parameter</b>
5362	5363	Metered Injector 15 Meter Factor	IEEE single precision float	SYS	977
5364	5365	Metered Injector 15 High Tolerance	IEEE single precision float	SYS	978
5366	5367	Metered Injector 15 Low Tolerance	IEEE single precision float	SYS	979
5368	5369	Metered Injector 16 K Factor	IEEE single precision float	SYS	981
5370	5371	Metered Injector 16 Meter Factor	IEEE single precision float	SYS	982
5372	5373	Metered Injector 16 High Tolerance	IEEE single precision float	SYS	983
5374	5375	Metered Injector 16 Low Tolerance	IEEE single precision float	SYS	984

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Arm Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5376	5391	Permissive 1 Message	Text (char[32])	ARM	102
5392	5407	Permissive 2 Message	Text (char[32])	ARM	105
5408	5423	Load Arm ID	Text (char[32])	ARM	107
5424	5439	Report Print Time	Text (char[32])	ARM	702
5440	5441	Low Flow Start Rate	IEEE single precision float	ARM	201
5442	5443	Low Flow Start Volume	IEEE single precision float	ARM	202
5444	5445	Low Flow Start % of Batch	IEEE single precision float	ARM	203
5446	5447	Overrun Alarm Limit	IEEE single precision float	ARM	208
5448	5449	High Flow Rate	IEEE single precision float	ARM	205
5450	5451	Second High Flow Rate	IEEE single precision float	ARM	206
5452	5453	Ratio Adjust Factor	IEEE single precision float	ARM	224
5454	5455	Blend Tolerance (Percentage)	IEEE single precision float	ARM	301
5456	5457	Blend Tolerance (Volume)	IEEE single precision float	ARM	302
5458	5459	Arm Additive Stop Amount	IEEE single precision float	ARM	227
5460	5461	2 <sup>nd</sup> High Flow Preset Amount	IEEE single precision float	ARM	229
5462	5463	Blend Correction Volume	IEEE Singleprecision float	ARM	306
5504		Permissive 1 Sense	unsigned character	ARM	101
5505		Permissive 1 Restart	unsigned character	ARM	103
5506		Permissive 2 Sense	unsigned character	ARM	104
5507		Permissive 2 Restart	unsigned character	ARM	106
5508		Low Flow Start Condition	unsigned character	ARM	204
5509		Zero Flow Timer	unsigned character	ARM	209
5510		Valve Delay to Open	unsigned character	ARM	210
5511		Pump Delay to Off	unsigned character	ARM	211
5512		Valve Fault Timeout	unsigned character	ARM	212
5513		Report Select	unsigned character	ARM	701
5514		Clean Line Product	unsigned character	ARM	222
5515		Clean Line Alarm Limit	unsigned character	ARM	223
5516		Ratio Factor Time	unsigned character	ARM	225
5517		Block Valve Position	unsigned character	ARM	226
5518		Blend Correction	unsigned character	ARM	303
5519		Report Volume Resolution	unsigned character	ARM	704
5520		Report Pages	unsigned character	ARM	705
5521		Report Hm Class	unsigned character	ARM	706
5522		Bay Assignment	unsigned character	ARM	109

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5523		Clean Line Blend	unsigned character	ARM	230
5524		Additive Start	unsigned character	ARM	231
5525		Unlimited Preset	unsigned character	ARM	111
5526		Transaction Reset Start Hour	unsigned character	ARM	113
5527		Blend Error Reset	unsigned character	ARM	308
5528		Virtual Swing Arm	unsigned character	ARM	110
5529		Blend Algorithm	unsigned character	ARM	309
5530		Ratio Product Minimum Flow	unsigned character	ARM	310
5568		Start after Stop Delay	unsigned integer	ARM	207
5569		Report Interval	unsigned integer	ARM	703
5570		Clean Line Volume	unsigned integer	ARM	221
5571		Valve Close Delay (Unloading)	unsigned integer	ARM	228
5572		Transaction Reset Time	unsigned integer	ARM	112
5573		Blend Alarm Timeout	unsigned integer	ARM	304
5574		Blend Alarm Minimum Volume	unsigned integer	ARM	305
5575		Blend Correct Time	unsigned integer	ARM	307
5576		Minimum Close Time	unsigned integer	ARM	311
5632	5647	Ready Screen Message	Text (char[32])	ARM	108
5648	5663	Arm Tag ID	Text (char[32])	ARM	710

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Meter 1 Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5696	5697	Overrun Alarm Limit	IEEE single precision float	METER 1	207
5698	5699	K Factor	IEEE single precision float	METER 1	301
5700	5701	DP Flow Rate Cutoff	IEEE single precision float	METER 1	304
5702	5703	S-Mass A Coefficient	IEEE single precision float	METER 1	407
5704	5705	S-Mass B Coefficient	IEEE single precision float	METER 1	408
5706	5707	Solartron DCF	IEEE single precision float	METER 1	412
5708	5709	Solartron K0	IEEE single precision float	METER 1	413
5710	5711	Solartron K1	IEEE single precision float	METER 1	414
5712	5713	Solartron K2	IEEE single precision float	METER 1	415
5714	5715	Solartron K18	IEEE single precision float	METER 1	416
5716	5717	Solartron K19	IEEE single precision float	METER 1	417
5718	5719	Solartron K20a	IEEE single precision float	METER 1	418
5720	5721	Solartron K20b	IEEE single precision float	METER 1	419
5722	5723	Solartron 21a	IEEE single precision float	METER 1	420
5724	5725	Solartron 21b	IEEE single precision float	METER 1	421
5726	5727	Solartron Tcal	IEEE single precision float	METER 1	422
5728	5729	Solartron Pcal	IEEE single precision float	METER 1	423
5730	5731	Sarasota DCF	IEEE single precision float	METER 1	442
5732	5733	Sarasota K	IEEE single precision float	METER 1	443
5734	5735	Sarasota D0	IEEE single precision float	METER 1	444
5736	5737	Sarasota T0	IEEE single precision float	METER 1	445
5738	5739	Sarasota Tcoef	IEEE single precision float	METER 1	446
5740	5741	Sarasota Tcal	IEEE single precision float	METER 1	447
5742	5743	Sarasota Pcoef	IEEE single precision float	METER 1	448
5744	5745	Sarasota Pcal	IEEE single precision float	METER 1	449
5746	5747	UGC DCF	IEEE single precision float	METER 1	462
5748	5749	UGC K0	IEEE single precision float	METER 1	463
5750	5751	UGC K1	IEEE single precision float	METER 1	464
5752	5753	UGC K2	IEEE single precision float	METER 1	465
5754	5755	UGC Tc	IEEE single precision float	METER 1	466
5756	5757	UGC Kt1	IEEE single precision float	METER 1	467
5758	5759	UGC Kt2	IEEE single precision float	METER 1	468
5760	5761	UGC Kt3	IEEE single precision float	METER 1	469
5762	5763	UGC Pc	IEEE single precision float	METER 1	470
5764	5765	UGC Kp1	IEEE single precision float	METER 1	471

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
5766	5767	UGC Kp2	IEEE single precision float	METER 1	472
5768	5769	UGC Kp3	IEEE single precision float	METER 1	473
5770	5771	Other Densitometer DCF	IEEE single precision float	METER 1	492
5772	5773	Other Densitometer A	IEEE single precision float	METER 1	493
5774	5775	Other Densitometer B	IEEE single precision float	METER 1	494
5776	5777	Other Densitometer C	IEEE single precision float	METER 1	495
5778	5779	Flow Adjust Tolerance	IEEE single precision float	METER 1	208
5780	5781	Flow Adjust Timer	IEEE single precision float	METER 1	209
5782	5783	Kp	IEEE single precision float	METER 1	202
5784	5785	Ki	IEEE single precision float	METER 1	203
5786	5787	Kd	IEEE single precision float	METER 1	204
5788	5789	PID Interval	IEEE single precision float	METER 1	205
5790	5791	S-Mass Coefficient Ka	IEEE single precision float	METER 1	427
5792	5793	S-Mass Coefficient Kb	IEEE single precision float	METER 1	428
5794	5795	S-Mass Coefficient Kc	IEEE single precision float	METER 1	429
5824		Valve Type	unsigned character	METER 1	201
5825		Zero Flow Alarm Timer	unsigned character	METER 1	206
5826		Dual Pulse Error Reset	unsigned character	METER 1	303
5827		Solartron Calib Cert Units	unsigned character	METER 1	411
5828		Sarasota Calib Cert Units	unsigned character	METER 1	441
5829		UGC Calib Cert Units	unsigned character	METER 1	461
5830		Other Den Calib Cert Units	unsigned character	METER 1	491
5831		Densitometer Type	unsigned character	METER 1	401
5832		Turbine Meter Blades	unsigned character	METER 1	310
5833		Turbine Meter Alarm Tolerance	unsigned character	METER 1	311
5834		Pulse security alarm volume accumulation	unsigned character	METER 1	305
5835		Share temperature input with another meter	unsigned character	METER 1	402
5836		Share density input with another meter	unsigned character	METER 1	403
5837		Share pressure input with another meter	unsigned character	METER 1	501
5838		Mass Meter Type	unsigned character	METER 1	425
5839		Mass Meter Pulse Multiplier	unsigned character	METER 1	431
5840		Mass Meter Low Flow Cutoff	unsigned character	METER 1	432
5841		Mass Meter Tube Material	unsigned character	METER 1	433
5842		Mass Meter Model	unsigned character	METER 1	434

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

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<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Point</b>	<b>Data Type</b>	<b>Menu</b>	<b>Parameter</b>
5843		Pulse Period Sample Count	unsigned character	METER 1	306
5844		Hybrid Plumbing	unsigned character	METER 1	210
5888		Dual Pulse Error Count	unsigned integer	METER 1	302
5889		S-Mass Meter Density Correction Factor	unsigned integer	METER 1	430
5890		Ramp Down Tolerance	unsigned integer	METER 1	211
5952		S-Mass Sequence Number	unsigned long integer	METER 1	426



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Meter 2 Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6016	6017	Overrun Alarm Limit	IEEE single precision float	METER 2	207
6018	6019	K Factor	IEEE single precision float	METER 2	301
6020	6021	DP Flow Rate Cutoff	IEEE single precision float	METER 2	304
6022	6023	S-Mass A Coefficient	IEEE single precision float	METER 2	407
6024	6025	S-Mass B Coefficient	IEEE single precision float	METER 2	408
6026	6027	Solartron DCF	IEEE single precision float	METER 2	412
6028	6029	Solartron K0	IEEE single precision float	METER 2	413
6030	6031	Solartron K1	IEEE single precision float	METER 2	414
6032	6033	Solartron K2	IEEE single precision float	METER 2	415
6034	6035	Solartron K18	IEEE single precision float	METER 2	416
6036	6037	Solartron K19	IEEE single precision float	METER 2	417
6038	6039	Solartron K20a	IEEE single precision float	METER 2	418
6040	6041	Solartron K20b	IEEE single precision float	METER 2	419
6042	6043	Solartron 21a	IEEE single precision float	METER 2	420
6044	6045	Solartron 21b	IEEE single precision float	METER 2	421
6046	6047	Solartron Tcal	IEEE single precision float	METER 2	422
6048	6049	Solartron Pcal	IEEE single precision float	METER 2	423
6050	6051	Sarasota DCF	IEEE single precision float	METER 2	442
6052	6053	Sarasota K	IEEE single precision float	METER 2	443
6054	6055	Sarasota D0	IEEE single precision float	METER 2	444
6056	6057	Sarasota T0	IEEE single precision float	METER 2	445
6058	6059	Sarasota Tcoef	IEEE single precision float	METER 2	446
6060	6061	Sarasota Tcal	IEEE single precision float	METER 2	447
6062	6063	Sarasota Pcoef	IEEE single precision float	METER 2	448
6064	6065	Sarasota Pcal	IEEE single precision float	METER 2	449
6066	6067	UGC DCF	IEEE single precision float	METER 2	462
6068	6069	UGC K0	IEEE single precision float	METER 2	463
6070	6071	UGC K1	IEEE single precision float	METER 2	464
6072	6073	UGC K2	IEEE single precision float	METER 2	465
6074	6075	UGC Tc	IEEE single precision float	METER 2	466
6076	6077	UGC Kt1	IEEE single precision float	METER 2	467
6078	6079	UGC Kt2	IEEE single precision float	METER 2	468
6080	6081	UGC Kt3	IEEE single precision float	METER 2	469
6082	6083	UGC Pc	IEEE single precision float	METER 2	470
6084	6085	UGC Kp1	IEEE single precision float	METER 2	471

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6086	6087	UGC Kp2	IEEE single precision float	METER 2	472
6088	6089	UGC Kp3	IEEE single precision float	METER 2	473
6090	6091	Other Densitometer DCF	IEEE single precision float	METER 2	492
6092	6093	Other Densitometer A	IEEE single precision float	METER 2	493
6094	6095	Other Densitometer B	IEEE single precision float	METER 2	494
6096	6097	Other Densitometer C	IEEE single precision float	METER 2	495
6098	6099	Flow Adjust Tolerance	IEEE single precision float	METER 2	208
6100	6101	Flow Adjust Timer	IEEE single precision float	METER 2	209
6102	6103	Kp	IEEE single precision float	METER 2	202
6104	6105	Ki	IEEE single precision float	METER 2	203
6106	6107	Kd	IEEE single precision float	METER 2	204
6108	6109	PID Interval	IEEE single precision float	METER 2	205
6110	6111	S-Mass Coefficient Ka	IEEE single precision float	METER 2	427
6112	6113	S-Mass Coefficient Kb	IEEE single precision float	METER 2	428
6114	6115	S-Mass Coefficient Kc	IEEE single precision float	METER 2	429
6144		Valve Type	unsigned character	METER 2	201
6145		Zero Flow Alarm Timer	unsigned character	METER 2	205
6146		Dual Pulse Error Reset	unsigned character	METER 2	303
6147		Solartron Calib Cert Units	unsigned character	METER 2	411
6148		Sarasota Calib Cert Units	unsigned character	METER 2	441
6149		UGC Calib Cert Units	unsigned character	METER 2	461
6150		Other Den Calib Cert Units	unsigned character	METER 2	491
6151		Densitometer Type	unsigned character	METER 2	401
6152		Turbine Meter Blades	unsigned character	METER 2	310
6153		Turbine Meter Alarm Tolerance	unsigned character	METER 2	311
6154		Pulse security alarm volume accumulation	unsigned character	METER 2	305
6155		Share temperature input with another meter	unsigned character	METER 2	402
6156		Share density input with another meter	unsigned character	METER 2	403
6157		Share pressure input with another meter	unsigned character	METER 2	501
6158		Mass Meter Type	unsigned character	METER 2	425
6159		Mass Meter Pulse Multiplier	unsigned character	METER 2	431
6160		Mass Meter Low Flow Cutoff	unsigned character	METER 2	432
6161		Mass Meter Tube Material	unsigned character	METER 2	433

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

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<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Point</b>	<b>Data Type</b>	<b>Menu</b>	<b>Parameter</b>
6162		Mass Meter Model	unsigned character	METER 2	434
6163		Pulse Period Sample Count	unsigned character	METER 2	306
6164		Hybrid Pumbing	unsigned character	METER 2	210
6208		Dual Pulse Error Count	unsigned integer	METER 2	302
6209		S-Mass Meter Density Correction Factor	unsigned integer	METER 2	430
6272		S-Mass Sequence Number	unsigned long integer	METER 2	426

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Meter 3 Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6336	6337	Overrun Alarm Limit	IEEE single precision float	METER 3	207
6338	6339	K Factor	IEEE single precision float	METER 3	301
6340	6341	DP Flow Rate Cutoff	IEEE single precision float	METER 3	304
6342	6343	S-Mass A Coefficient	IEEE single precision float	METER 3	407
6344	6345	S-Mass B Coefficient	IEEE single precision float	METER 3	408
6346	6347	Solartron DCF	IEEE single precision float	METER 3	412
6348	6349	Solartron K0	IEEE single precision float	METER 3	413
6350	6351	Solartron K1	IEEE single precision float	METER 3	414
6352	6353	Solartron K2	IEEE single precision float	METER 3	415
6354	6355	Solartron K18	IEEE single precision float	METER 3	416
6356	6357	Solartron K19	IEEE single precision float	METER 3	417
6358	6359	Solartron K20a	IEEE single precision float	METER 3	418
6360	6361	Solartron K20b	IEEE single precision float	METER 3	419
6362	6363	Solartron 21a	IEEE single precision float	METER 3	420
6364	6365	Solartron 21b	IEEE single precision float	METER 3	421
6366	6367	Solartron Tcal	IEEE single precision float	METER 3	422
6368	6369	Solartron Pcal	IEEE single precision float	METER 3	423
6370	6371	Sarasota DCF	IEEE single precision float	METER 3	442
6372	6373	Sarasota K	IEEE single precision float	METER 3	443
6374	6375	Sarasota D0	IEEE single precision float	METER 3	444
6376	6377	Sarasota T0	IEEE single precision float	METER 3	445
6378	6379	Sarasota Tcoef	IEEE single precision float	METER 3	446
6380	6381	Sarasota Tcal	IEEE single precision float	METER 3	447
6382	6383	Sarasota Pcoef	IEEE single precision float	METER 3	448
6384	6385	Sarasota Pcal	IEEE single precision float	METER 3	449
6386	6387	UGC DCF	IEEE single precision float	METER 3	462
6388	6389	UGC K0	IEEE single precision float	METER 3	463
6390	6391	UGC K1	IEEE single precision float	METER 3	464
6392	6393	UGC K2	IEEE single precision float	METER 3	465
6394	6395	UGC Tc	IEEE single precision float	METER 3	466
6396	6397	UGC Kt1	IEEE single precision float	METER 3	467
6398	6399	UGC Kt2	IEEE single precision float	METER 3	468
6400	6401	UGC Kt3	IEEE single precision float	METER 3	469
6402	6403	UGC Pc	IEEE single precision float	METER 3	470
6404	6405	UGC Kp1	IEEE single precision float	METER 3	471

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6406	6407	UGC Kp2	IEEE single precision float	METER 3	472
6408	6409	UGC Kp3	IEEE single precision float	METER 3	473
6410	6411	Other Densitometer DCF	IEEE single precision float	METER 3	492
6412	6413	Other Densitometer A	IEEE single precision float	METER 3	493
6414	6415	Other Densitometer B	IEEE single precision float	METER 3	494
6416	6417	Other Densitometer C	IEEE single precision float	METER 3	495
6418	6419	Flow Adjust Tolerance	IEEE single precision float	METER 3	208
6420	6421	Flow Adjust Timer	IEEE single precision float	METER 3	209
6422	6423	Kp	IEEE single precision float	METER 3	202
6424	6425	Ki	IEEE single precision float	METER 3	203
6426	6427	Kd	IEEE single precision float	METER 3	204
6428	6429	PID Interval	IEEE single precision float	METER 3	205
6430	6431	S-Mass Coefficient Ka	IEEE single precision float	METER 3	427
6432	6433	S-Mass Coefficient Kb	IEEE single precision float	METER 3	428
6434	6435	S-Mass Coefficient Kc	IEEE single precision float	METER 3	429
6464		Valve Type	unsigned character	METER 3	201
6465		Zero Flow Alarm Timer	unsigned character	METER 3	205
6466		Dual Pulse Error Reset	unsigned character	METER 3	303
6467		Solartron Calib Cert Units	unsigned character	METER 3	411
6468		Sarasota Calib Cert Units	unsigned character	METER 3	441
6469		UGC Calib Cert Units	unsigned character	METER 3	461
6470		Other Den Calib Cert Units	unsigned character	METER 3	491
6471		Densitometer Type	unsigned character	METER 3	401
6472		Turbine Meter Blades	unsigned character	METER 3	310
6473		Turbine Meter Alarm Tolerance	unsigned character	METER 3	311
6474		Pulse security alarm volume accumulation	unsigned character	METER 3	305
6475		Share temperature input with another meter	unsigned character	METER 3	402
6476		Share density input with another meter	unsigned character	METER 3	403
6477		Share pressure input with another meter	unsigned character	METER 3	501
6478		Mass Meter Type	unsigned character	METER 3	425
6479		Mass Meter Pulse Multiplier	unsigned character	METER 3	431
6480		Mass Meter Low Flow Cutoff	unsigned character	METER 3	432
6481		Mass Meter Tube Material	unsigned character	METER 3	433
6482		Mass Meter Model	unsigned character	METER 3	434

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

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<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Point</b>	<b>Data Type</b>	<b>Menu</b>	<b>Parameter</b>
6483		Pulse Period Sample Count	unsigned character	METER 3	306
6484		Hybrid Plumbing	unsigned character	METER 3	210
6528		Dual Pulse Error Count	unsigned integer	METER 3	302
6529		S-Mass Meter Density Correction Factor	unsigned integer	METER 3	430
6592		S-Mass Sequence Number	unsigned long integer	METER 3	426

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Meter 4 Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6656	6657	Overrun Alarm Limit	IEEE single precision float	METER 4	207
6658	6659	K Factor	IEEE single precision float	METER 4	301
6660	6661	DP Flow Rate Cutoff	IEEE single precision float	METER 4	304
6662	6663	S-Mass A Coefficient	IEEE single precision float	METER 4	407
6664	6665	S-Mass B Coefficient	IEEE single precision float	METER 4	408
6666	6667	Solartron DCF	IEEE single precision float	METER 4	412
6668	6669	Solartron K0	IEEE single precision float	METER 4	413
6670	6671	Solartron K1	IEEE single precision float	METER 4	414
6672	6673	Solartron K2	IEEE single precision float	METER 4	415
6674	6675	Solartron K18	IEEE single precision float	METER 4	416
6676	6677	Solartron K19	IEEE single precision float	METER 4	417
6678	6679	Solartron K20a	IEEE single precision float	METER 4	418
6680	6681	Solartron K20b	IEEE single precision float	METER 4	419
6682	6683	Solartron 21a	IEEE single precision float	METER 4	420
6684	6685	Solartron 21b	IEEE single precision float	METER 4	421
6686	6687	Solartron Tcal	IEEE single precision float	METER 4	422
6688	6689	Solartron Pcal	IEEE single precision float	METER 4	423
6690	6691	Sarasota DCF	IEEE single precision float	METER 4	442
6692	6693	Sarasota K	IEEE single precision float	METER 4	443
6694	6695	Sarasota D0	IEEE single precision float	METER 4	444
6696	6697	Sarasota T0	IEEE single precision float	METER 4	445
6698	6699	Sarasota Tcoef	IEEE single precision float	METER 4	446
6700	6701	Sarasota Tcal	IEEE single precision float	METER 4	447
6702	6703	Sarasota Pcoef	IEEE single precision float	METER 4	448
6704	6705	Sarasota Pcal	IEEE single precision float	METER 4	449
6706	6707	UGC DCF	IEEE single precision float	METER 4	462
6708	6709	UGC K0	IEEE single precision float	METER 4	463
6710	6711	UGC K1	IEEE single precision float	METER 4	464
6712	6713	UGC K2	IEEE single precision float	METER 4	465
6714	6715	UGC Tc	IEEE single precision float	METER 4	466
6716	6717	UGC Kt1	IEEE single precision float	METER 4	467
6718	6719	UGC Kt2	IEEE single precision float	METER 4	468
6720	6721	UGC Kt3	IEEE single precision float	METER 4	469
6722	6723	UGC Pc	IEEE single precision float	METER 4	470
6724	6725	UGC Kp1	IEEE single precision float	METER 4	471

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6726	6727	UGC Kp2	IEEE single precision float	METER 4	472
6728	6729	UGC Kp3	IEEE single precision float	METER 4	473
6730	6731	Other Densitometer DCF	IEEE single precision float	METER 4	492
6732	6733	Other Densitometer A	IEEE single precision float	METER 4	493
6734	6735	Other Densitometer B	IEEE single precision float	METER 4	494
6736	6737	Other Densitometer C	IEEE single precision float	METER 4	495
6738	6739	Flow Adjust Tolerance	IEEE single precision float	METER 4	208
6740	6741	Flow Adjust Timer	IEEE single precision float	METER 4	209
6742	6743	Kp	IEEE single precision float	METER 4	202
6744	6745	Ki	IEEE single precision float	METER 4	203
6746	6747	Kd	IEEE single precision float	METER 4	204
6748	6749	PID Interval	IEEE single precision float	METER 4	205
6750	6751	S-Mass Coefficient Ka	IEEE single precision float	METER 4	427
6752	6753	S-Mass Coefficient Kb	IEEE single precision float	METER 4	428
6754	6755	S-Mass Coefficient Kc	IEEE single precision float	METER 4	429
6784		Valve Type	unsigned character	METER 4	201
6785		Zero Flow Alarm Timer	unsigned character	METER 4	205
6786		Dual Pulse Error Reset	unsigned character	METER 4	303
6787		Solartron Calib Cert Units	unsigned character	METER 4	411
6788		Sarasota Calib Cert Units	unsigned character	METER 4	441
6789		UGC Calib Cert Units	unsigned character	METER 4	461
6790		Other Den Calib Cert Units	unsigned character	METER 4	491
6791		Densitometer Type	unsigned character	METER 4	401
6792		Turbine Meter Blades	unsigned character	METER 4	310
6793		Turbine Meter Alarm Tolerance	unsigned character	METER 4	311
6794		Pulse security alarm volume accumulation	unsigned character	METER 4	305
6795		Share temperature input with another meter	unsigned character	METER 4	402
6796		Share density input with another meter	unsigned character	METER 4	403
6797		Share pressure input with another meter	unsigned character	METER 4	501
6798		Mass Meter Type	unsigned character	METER 4	425
6799		Mass Meter Pulse Multiplier	unsigned character	METER 4	431
6800		Mass Meter Low Flow Cutoff	unsigned character	METER 4	432
6801		Mass Meter Tube Material	unsigned character	METER 4	433



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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6802		Mass Meter Model	unsigned character	METER 4	434
6803		Pulse Period Sample Count	unsigned character	METER 4	306
6804		Hybrid Plumbing	unsigned character	METER 4	210
6848		Dual Pulse Error Count	unsigned integer	METER 4	302
6849		S-Mass Meter Density Correction Factor	unsigned integer	METER 4	430
6912		S-Mass Sequence Number	unsigned long integer	METER 4	426

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
22144	22145	Overrun Alarm Limit	IEEE single precision float	METER 5	207
22146	22147	K Factor	IEEE single precision float	METER 5	301
22148	22149	DP Flow Rate Cutoff	IEEE single precision float	METER 5	304
22150	22151	S-Mass A Coefficient	IEEE single precision float	METER 5	407
22152	22153	S-Mass B Coefficient	IEEE single precision float	METER 5	408
22154	22155	Solartron DCF	IEEE single precision float	METER 5	412
22156	22157	Solartron K0	IEEE single precision float	METER 5	413
22158	22159	Solartron K1	IEEE single precision float	METER 5	414
22160	22161	Solartron K2	IEEE single precision float	METER 5	415
22162	22163	Solartron K18	IEEE single precision float	METER 5	416
22164	22165	Solartron K19	IEEE single precision float	METER 5	417
22166	22167	Solartron K20a	IEEE single precision float	METER 5	418
22168	22169	Solartron K20b	IEEE single precision float	METER 5	419
22170	22171	Solartron 21a	IEEE single precision float	METER 5	420
22172	22173	Solartron 21b	IEEE single precision float	METER 5	421
22174	22175	Solartron Tcal	IEEE single precision float	METER 5	422
22176	22177	Solartron Pcal	IEEE single precision float	METER 5	423
22178	22179	Sarasota DCF	IEEE single precision float	METER 5	442
22180	22181	Sarasota K	IEEE single precision float	METER 5	443
22182	22183	Sarasota D0	IEEE single precision float	METER 5	444
22184	22185	Sarasota T0	IEEE single precision float	METER 5	445
22186	22187	Sarasota Tcoef	IEEE single precision float	METER 5	446
22188	22189	Sarasota Tcal	IEEE single precision float	METER 5	447
22190	22191	Sarasota Pcoef	IEEE single precision float	METER 5	448
22192	22193	Sarasota Pcal	IEEE single precision float	METER 5	449
22194	22195	UGC DCF	IEEE single precision float	METER 5	462
22196	22197	UGC K0	IEEE single precision float	METER 5	463
22198	22199	UGC K1	IEEE single precision float	METER 5	464
22200	22201	UGC K2	IEEE single precision float	METER 5	465
22202	22203	UGC Tc	IEEE single precision float	METER 5	466
22204	22205	UGC Kt1	IEEE single precision float	METER 5	467
22206	22207	UGC Kt2	IEEE single precision float	METER 5	468
22208	22209	UGC Kt3	IEEE single precision float	METER 5	469
22210	22211	UGC Pc	IEEE single precision float	METER 5	470
22212	22213	UGC Kp1	IEEE single precision float	METER 5	471
Modbus	Ending	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Address	Address				
22214	22215	UGC Kp2	IEEE single precision float	METER 5	472
22216	22217	UGC Kp3	IEEE single precision float	METER 5	473
22218	22219	Other Densitometer DCF	IEEE single precision float	METER 5	492
22220	22221	Other Densitometer A	IEEE single precision float	METER 5	493
22222	22223	Other Densitometer B	IEEE single precision float	METER 5	494
22224	22225	Other Densitometer C	IEEE single precision float	METER 5	495
22226	22227	Flow Adjust Tolerance	IEEE single precision float	METER 5	208
22228	22229	Flow Adjust Timer	IEEE single precision float	METER 5	209
22230	22231	Kp	IEEE single precision float	METER 5	202
22232	22233	Ki	IEEE single precision float	METER 5	203
22234	22235	Kd	IEEE single precision float	METER 5	204
22236	22237	PID Interval	IEEE single precision float	METER 5	205
22238	22239	S-Mass Coefficient Ka	IEEE single precision float	METER 5	427
22240	22241	S-Mass Coefficient Kb	IEEE single precision float	METER 5	428
22242	22243	S-Mass Coefficient Kc	IEEE single precision float	METER 5	429
22272		Valve Type	unsigned character	METER 5	201
22273		Zero Flow Alarm Timer	unsigned character	METER 5	205
22274		Dual Pulse Error Reset	unsigned character	METER 5	303
22275		Solartron Calib Cert Units	unsigned character	METER 5	411
22276		Sarasota Calib Cert Units	unsigned character	METER 5	441
22277		UGC Calib Cert Units	unsigned character	METER 5	461
22278		Other Den Calib Cert Units	unsigned character	METER 5	491
22279		Densitometer Type	unsigned character	METER 5	401
22280		Turbine Meter Blades	unsigned character	METER 5	310
22281		Turbine Meter Alarm Tolerance	unsigned character	METER 5	311
22282		Pulse security alarm volume accumulation	unsigned character	METER 5	305
22283		Share temperature input with an- other meter	unsigned character	METER 5	402
22284		Share density input with another meter	unsigned character	METER 5	403
22285		Share pressure input with another meter	unsigned character	METER 5	501
22286		Mass Meter Type	unsigned character	METER 5	425
22287		Mass Meter Pulse Multiplier	unsigned character	METER 5	431
22288		Mass Meter Low Flow Cutoff	unsigned character	METER 5	432
22289		Mass Meter Tube Material	unsigned character	METER 5	433
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

22290		Mass Meter Model	unsigned character	METER 5	434
22291		Pulse Period Sample Count	unsigned character	METER 5	306
22292		Hybrid Plumbing	unsigned character	METER 5	210
22336		Dual Pulse Error Count	unsigned integer	METER 5	302
22337		S-Mass Meter Density Correction Factor	unsigned integer	METER 5	430
22400		S-Mass Sequence Number	unsigned long integer	METER 5	426

Modbus Address	Ending Address	Data Set	Data Point	Data Type
22016	22017	Meter 5 Commands	Meter Signature	IEEE single precision float
22018	22019	Meter 5 Commands	Meter Signature Deviation	IEEE single precision float
22020	22021	Meter 5 Commands	Blade Signature	IEEE single precision float
22022	22023	Meter 5 Commands	Blade Signature Deviation	IEEE single precision float
22024	22025	Meter 5 Commands	Rotation Signature	IEEE single precision float
22026	22027	Meter 5 Commands	Rotation Signature Deviation	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Meter 6 Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
22464	22465	Overrun Alarm Limit	IEEE single precision float	METER 6	207
22466	22467	K Factor	IEEE single precision float	METER 6	301
22468	22469	DP Flow Rate Cutoff	IEEE single precision float	METER 6	304
22470	22471	S-Mass A Coefficient	IEEE single precision float	METER 6	407
22472	22473	S-Mass B Coefficient	IEEE single precision float	METER 6	408
22474	22475	Solartron DCF	IEEE single precision float	METER 6	412
22476	22477	Solartron K0	IEEE single precision float	METER 6	413
22478	22479	Solartron K1	IEEE single precision float	METER 6	414
22480	22481	Solartron K2	IEEE single precision float	METER 6	415
22482	22483	Solartron K18	IEEE single precision float	METER 6	416
22484	22485	Solartron K19	IEEE single precision float	METER 6	417
22486	22487	Solartron K20a	IEEE single precision float	METER 6	418
22488	22489	Solartron K20b	IEEE single precision float	METER 6	419
22490	22491	Solartron 21a	IEEE single precision float	METER 6	420
22492	22493	Solartron 21b	IEEE single precision float	METER 6	421
22494	22495	Solartron Tcal	IEEE single precision float	METER 6	422
22496	22497	Solartron Pcal	IEEE single precision float	METER 6	423
22498	22499	Sarasota DCF	IEEE single precision float	METER 6	442
22500	22501	Sarasota K	IEEE single precision float	METER 6	443
22502	22503	Sarasota D0	IEEE single precision float	METER 6	444
22504	22505	Sarasota T0	IEEE single precision float	METER 6	445
22506	22507	Sarasota Tcoef	IEEE single precision float	METER 6	446
22508	22509	Sarasota Tcal	IEEE single precision float	METER 6	447
22510	22511	Sarasota Pcoef	IEEE single precision float	METER 6	448
22512	22513	Sarasota Pcal	IEEE single precision float	METER 6	449
22514	22515	UGC DCF	IEEE single precision float	METER 6	462
22516	22517	UGC K0	IEEE single precision float	METER 6	463
22518	22519	UGC K1	IEEE single precision float	METER 6	464
22520	22521	UGC K2	IEEE single precision float	METER 6	465
22522	22523	UGC Tc	IEEE single precision float	METER 6	466
22524	22525	UGC Kt1	IEEE single precision float	METER 6	467
22526	22527	UGC Kt2	IEEE single precision float	METER 6	468
22528	22529	UGC Kt3	IEEE single precision float	METER 6	469
22530	22531	UGC Pc	IEEE single precision float	METER 6	470
22532	22533	UGC Kp1	IEEE single precision float	METER 6	471

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
22534	22535	UGC Kp2	IEEE single precision float	METER 6	472
22536	22537	UGC Kp3	IEEE single precision float	METER 6	473
22538	22539	Other Densitometer DCF	IEEE single precision float	METER 6	492
22540	22541	Other Densitometer A	IEEE single precision float	METER 6	493
22542	22543	Other Densitometer B	IEEE single precision float	METER 6	494
22544	22545	Other Densitometer C	IEEE single precision float	METER 6	495
22546	22547	Flow Adjust Tolerance	IEEE single precision float	METER 6	208
22548	22549	Flow Adjust Timer	IEEE single precision float	METER 6	209
22550	22551	Kp	IEEE single precision float	METER 6	202
22552	22553	Ki	IEEE single precision float	METER 6	203
22554	22555	Kd	IEEE single precision float	METER 6	204
22556	22557	PID Interval	IEEE single precision float	METER 6	205
22558	22559	S-Mass Coefficient Ka	IEEE single precision float	METER 6	427
22560	22561	S-Mass Coefficient Kb	IEEE single precision float	METER 6	428
22562	22563	S-Mass Coefficient Kc	IEEE single precision float	METER 6	429
22592		Valve Type	unsigned character	METER 6	201
22593		Zero Flow Alarm Timer	unsigned character	METER 6	205
22594		Dual Pulse Error Reset	unsigned character	METER 6	303
22595		Solartron Calib Cert Units	unsigned character	METER 6	411
22596		Sarasota Calib Cert Units	unsigned character	METER 6	441
22597		UGC Calib Cert Units	unsigned character	METER 6	461
22598		Other Den Calib Cert Units	unsigned character	METER 6	491
22599		Densitometer Type	unsigned character	METER 6	401
22600		Turbine Meter Blades	unsigned character	METER 6	310
22601		Turbine Meter Alarm Tolerance	unsigned character	METER 6	311
22602		Pulse security alarm volume accumulation	unsigned character	METER 6	305
22603		Share temperature input with another meter	unsigned character	METER 6	402
22604		Share density input with another meter	unsigned character	METER 6	403
22605		Share pressure input with another meter	unsigned character	METER 6	501
22606		Mass Meter Type	unsigned character	METER 6	425
22607		Mass Meter Pulse Multiplier	unsigned character	METER 6	431
22608		Mass Meter Low Flow Cutoff	unsigned character	METER 6	432
22609		Mass Meter Tube Material	unsigned character	METER 6	433
22610		Mass Meter Model	unsigned character	METER 6	434

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
22611		Pulse Period Sample Count	unsigned character	METER 6	306
22612		Hybrid Plumbing	unsigned character	METER 6	210
22656		Dual Pulse Error Count	unsigned integer	METER 6	302
22657		S-Mass Meter Density Correction Factor	unsigned integer	METER 6	430
22720		S-Mass Sequence Number	unsigned long integer	METER 6	426

Modbus Address	Ending Address	Data Set	Data Point	Data Type
22080	22081	Meter 6 Commands	Meter Signature	IEEE single precision float
22082	22083	Meter 6 Commands	Meter Signature Deviation	IEEE single precision float
22084	22085	Meter 6 Commands	Blade Signature	IEEE single precision float
22086	22087	Meter 6 Commands	Blade Signature Deviation	IEEE single precision float
22088	22089	Meter 6 Commands	Rotation Signature	IEEE single precision float
22090	22091	Meter 6 Commands	Rotation Signature Deviation	IEEE single precision float

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Product Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
6976	6991	Product ID	Text (char[32])	PROD 1	101
6992	7007	HM Class Part 1	Text (char[32])	PROD 1	102
7008	7023	HM Class Part 2	Text (char[32])	PROD 1	103
7040	7041	Minimum Flow Rate	IEEE single precision float	PROD 1	201
7042	7043	High Flow Rate	IEEE single precision float	PROD 1	202
7044	7045	2nd High Flow Rate	IEEE single precision float	PROD 1	203
7046	7047	Flow Tolerance %	IEEE single precision float	PROD 1	204
7048	7049	Flow Tolerance Rate	IEEE single precision float	PROD 1	205
7050	7051	1st Trip Volume	IEEE single precision float	PROD 1	206
7052	7053	2nd Trip Volume	IEEE single precision float	PROD 1	207
7054	7055	Excess High Flow Rate	IEEE single precision float	PROD 1	209
7056	7057	Low Flow Alarm Limit	IEEE single precision float	PROD 1	210
7058	7059	Meter Factor 1	IEEE single precision float	PROD 1	302
7060	7061	Flow Rate 1	IEEE single precision float	PROD 1	303
7062	7063	Meter Factor 2	IEEE single precision float	PROD 1	304
7064	7065	Flow Rate 2	IEEE single precision float	PROD 1	305
7066	7067	Meter Factor 3	IEEE single precision float	PROD 1	306
7068	7069	Flow Rate 3	IEEE single precision float	PROD 1	307
7070	7071	Meter Factor 4	IEEE single precision float	PROD 1	308
7072	7073	Flow Rate 4	IEEE single precision float	PROD 1	309
7074	7075	Master Meter Factor	IEEE single precision float	PROD 1	310
7076	7077	Linear Factor Deviation	IEEE single precision float	PROD 1	311
7078	7079	Meter Factor % Change Per Degree	IEEE single precision float	PROD 1	313
7080	7081	Meter Factor Variation Reference Temp	IEEE single precision float	PROD 1	314
7082	7083	Maintenance Temperature	IEEE single precision float	PROD 1	401
7084	7085	High Temperature Alarm	IEEE single precision float	PROD 1	402
7086	7087	Low Temperature Alarm	IEEE single precision float	PROD 1	403
7088	7089	Reference Density	IEEE single precision float	PROD 1	412
7090	7091	High Density Alarm	IEEE single precision float	PROD 1	413
7092	7093	Low Density Alarm	IEEE single precision float	PROD 1	414
7094	7095	Maintenance Pressure	IEEE single precision float	PROD 1	501
7096	7097	Pressure Coefficient	IEEE single precision float	PROD 1	502

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
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## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

7098	7099	High Pressure Alarm Limit	IEEE single precision float	PROD 1	503
7100	7101	Low Pressure Alarm Limit	IEEE single precision float	PROD 1	504
7102	7103	Differential Pressure	IEEE single precision float	PROD 1	511
7104	7105	Minimum BP Flow Rate	IEEE single precision float	PROD 1	512
7106	7107	BP Percent Reduction	IEEE single precision float	PROD 1	514
7108	7109	BP Flow Recovery Pressure	IEEE single precision float	PROD 1	515
7110	7111	Vapor Pressure 1	IEEE single precision float	PROD 1	522
7112	7113	Vapor Press Temperature 1	IEEE single precision float	PROD 1	523
7114	7115	Vapor Pressure 2	IEEE single precision float	PROD 1	524
7116	7117	Vapor Press Temperature 2	IEEE single precision float	PROD 1	525
7118	7119	Vapor Pressure 3	IEEE single precision float	PROD 1	526
7120	7121	Vapor Press Temperature 3	IEEE single precision float	PROD 1	527
7122	7123	Minimum Batch Volume	IEEE single precision float	PROD 1	301
7124	7125	Unloading Delta Amount	IEEE single precision float	PROD 1	415
7126	7127	Unloading Contaminant Density	IEEE single precision float	PROD 1	416
7128	7129	Product Stop Amount	IEEE single precision float	PROD 1	213
7130	7131	Product Stop Alarm Limit	IEEE single precision float	PROD 1	214
7132	7133	Reference Density's Temperature	IEEE single precision float	PROD 1	418
7134	7135	Reference Density for C Tables	IEEE single precision float	PROD 1	419
7136	7137	Ethanol Coefficient a1	IEEE single precision float	PROD 1	420
7138	7139	Ethanol Coefficient a2	IEEE single precision float	PROD 1	421
7140	7141	Ethanol Coefficient a3	IEEE single precision float	PROD 1	422
7168		2nd Trip Auto Adjust	unsigned character	PROD 1	208
7169		Meter Factor Variation Select	unsigned character	PROD 1	312
7170		API Table	unsigned character	PROD 1	411
7171		Minimum BP Flow Timer	unsigned character	PROD 1	513
7172		BP Flow Recovery Timer	unsigned character	PROD 1	516
7173		Vapor Pressure Calc Method	unsigned character	PROD 1	521
7174		Block Valve Delay to Open	unsigned character	PROD 1	211
7175		Block Valve Delay to Close	unsigned character	PROD 1	212
7176		Calculate Current Reference Density	unsigned character	PROD 1	417
7296	7311	Product ID	Text (char[32])	PROD 2	101
7312	7327	HM Class Part 1	Text (char[32])	PROD 2	102
7328	7343	HM Class Part 2	Text (char[32])	PROD 2	103
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

7360	7361	Minimum Flow Rate	IEEE single precision float	PROD 2	201
7362	7363	High Flow Rate	IEEE single precision float	PROD 2	202
7364	7365	2 <sup>nd</sup> High Flow Rate	IEEE single precision float	PROD 2	203
7366	7367	Flow Tolerance %	IEEE single precision float	PROD 2	204
7368	7369	Flow Tolerance Rate	IEEE single precision float	PROD 2	205
7370	7371	1 <sup>st</sup> Trip Volume	IEEE single precision float	PROD 2	206
7372	7373	2 <sup>nd</sup> Trip Volume	IEEE single precision float	PROD 2	207
7374	7375	Excess High Flow Rate	IEEE single precision float	PROD 2	209
7376	7377	Low Flow Alarm Limit	IEEE single precision float	PROD 2	210
7378	7379	Meter Factor 1	IEEE single precision float	PROD 2	302
7380	7381	Flow Rate 1	IEEE single precision float	PROD 2	303
7382	7383	Meter Factor 2	IEEE single precision float	PROD 2	304
7384	7385	Flow Rate 2	IEEE single precision float	PROD 2	305
7386	7387	Meter Factor 3	IEEE single precision float	PROD 2	306
7388	7389	Flow Rate 3	IEEE single precision float	PROD 2	307
7390	7391	Meter Factor 4	IEEE single precision float	PROD 2	308
7392	7393	Flow Rate 4	IEEE single precision float	PROD 2	309
7394	7395	Master Meter Factor	IEEE single precision float	PROD 2	310
7396	7397	Linear Factor Deviation	IEEE single precision float	PROD 2	311
7398	7399	Meter Factor % Change Per Degree	IEEE single precision float	PROD 2	313
7400	7401	Meter Factor Variation Reference Temperature	IEEE single precision float	PROD 2	314
7402	7403	Maintenance Temperature	IEEE single precision float	PROD 2	401
7404	7405	High Temperature Alarm	IEEE single precision float	PROD 2	402
7406	7407	Low Temperature Alarm	IEEE single precision float	PROD 2	403
7408	7409	Reference Density	IEEE single precision float	PROD 2	412
7410	7411	High Density Alarm	IEEE single precision float	PROD 2	413
7412	7413	Low Density Alarm	IEEE single precision float	PROD 2	414
7414	7415	Maintenance Pressure	IEEE single precision float	PROD 2	501
7416	7417	Pressure Coefficient	IEEE single precision float	PROD 2	502
7418	7419	High Pressure Alarm Limit	IEEE single precision float	PROD 2	503
7420	7421	Low Pressure Alarm Limit	IEEE single precision float	PROD 2	504
7422	7423	Differential Pressure	IEEE single precision float	PROD 2	511
7424	7425	Minimum BP Flow Rate	IEEE single precision float	PROD 2	512
7426	7427	BP Percent Reduction	IEEE single precision float	PROD 2	514
7428	7429	BP Flow Recovery Pressure	IEEE single precision float	PROD 2	515
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

7430	7431	Vapor Pressure 1	IEEE single precision float	PROD 2	522
7432	7433	Vapor Press Temperature 1	IEEE single precision float	PROD 2	523
7434	7435	Vapor Pressure 2	IEEE single precision float	PROD 2	524
7436	7437	Vapor Press Temperature 2	IEEE single precision float	PROD 2	525
7438	7439	Vapor Pressure 3	IEEE single precision float	PROD 2	526
7440	7441	Vapor Press Temperature 3	IEEE single precision float	PROD 2	527
7442	7443	Minimum Batch Volume	IEEE single precision float	PROD 2	301
7444	7445	Unloading Delta Amount	IEEE single precision float	PROD 2	415
7446	7447	Unloading Contaminant Density	IEEE single precision float	PROD 2	416
7448	7449	Product Stop Amount	IEEE single precision float	PROD 2	213
7450	7451	Product Stop Alarm Limit	IEEE single precision float	PROD 2	214
7452	7453	Reference Density's Temperature	IEEE single precision float	PROD 2	418
7454	7455	Reference Density for C Tables	IEEE single precision float	PROD 2	419
7456	7457	Ethanol Coefficient a1	IEEE single precision float	PROD 2	420
7458	7459	Ethanol Coefficient a2	IEEE single precision float	PROD 2	421
7460	7461	Ethanol Coefficient a3	IEEE single precision float	PROD 2	422
7488		2 <sup>nd</sup> Trip Auto Adjust	unsigned character	PROD 2	208
7489		Meter Factor Variation Select	unsigned character	PROD 2	312
7490		API Table	unsigned character	PROD 2	411
7491		Minumum BP Flow Timer	unsigned character	PROD 2	513
7492		BP Flow Recovery Timer	unsigned character	PROD 2	516
7493		Vapor Pressure Calc Method	unsigned character	PROD 2	521
7494		Block Valve Delay to Open	unsigned character	PROD 2	211
7495		Block Valve Delay to Close	unsigned character	PROD 2	212
7496		Calculate Current Reference Density	unsigned character	PROD 2	417
7616	7631	Product ID	Text (char[32])	PROD 3	101
7632	7647	HM Class Part 1	Text (char[32])	PROD 3	102
7648	7663	HM Class Part 2	Text (char[32])	PROD 3	103
7680	7681	Minimum Flow Rate	IEEE single precision float	PROD 3	201
7682	7683	High Flow Rate	IEEE single precision float	PROD 3	202
7684	7685	2nd High Flow Rate	IEEE single precision float	PROD 3	203
7686	7687	Flow Tolerance %	IEEE single precision float	PROD 3	204
7688	7689	Flow Tolerance Rate	IEEE single precision float	PROD 3	205
7690	7691	1st Trip Volume	IEEE single precision float	PROD 3	206
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

7692	7693	2nd Trip Volume	IEEE single precision float	PROD 3	207
7694	7695	Excess High Flow Rate	IEEE single precision float	PROD 3	209
7696	7697	Low Flow Alarm Limit	IEEE single precision float	PROD 3	210
7698	7699	Meter Factor 1	IEEE single precision float	PROD 3	302
7700	7701	Flow Rate 1	IEEE single precision float	PROD 3	303
7702	7703	Meter Factor 2	IEEE single precision float	PROD 3	304
7704	7705	Flow Rate 2	IEEE single precision float	PROD 3	305
7706	7707	Meter Factor 3	IEEE single precision float	PROD 3	306
7708	7709	Flow Rate 3	IEEE single precision float	PROD 3	307
7710	7711	Meter Factor 4	IEEE single precision float	PROD 3	308
7712	7713	Flow Rate 4	IEEE single precision float	PROD 3	309
7714	7715	Master Meter Factor	IEEE single precision float	PROD 3	310
7716	7717	Linear Factor Deviation	IEEE single precision float	PROD 3	311
7718	7719	Meter Factor % Change Per Degree	IEEE single precision float	PROD 3	313
7720	7721	Meter Factor Variation Reference Temperature	IEEE single precision float	PROD 3	314
7722	7723	Maintenance Temperature	IEEE single precision float	PROD 3	401
7724	7725	High Temperature Alarm	IEEE single precision float	PROD 3	402
7726	7727	Low Temperature Alarm	IEEE single precision float	PROD 3	403
7728	7729	Reference Density	IEEE single precision float	PROD 3	412
7730	7731	High Density Alarm	IEEE single precision float	PROD 3	413
7732	7733	Low Density Alarm	IEEE single precision float	PROD 3	414
7734	7735	Maintenance Pressure	IEEE single precision float	PROD 3	501
7736	7737	Pressure Coefficient	IEEE single precision float	PROD 3	502
7738	7739	High Pressure Alarm Limit	IEEE single precision float	PROD 3	503
7740	7741	Low Pressure Alarm Limit	IEEE single precision float	PROD 3	504
7742	7743	Differential Pressure	IEEE single precision float	PROD 3	511
7744	7745	Minimum BP Flow Rate	IEEE single precision float	PROD 3	512
7746	7747	BP Percent Reduction	IEEE single precision float	PROD 3	514
7748	7749	BP Flow Recovery Pressure	IEEE single precision float	PROD 3	515
7750	7751	Vapor Pressure 1	IEEE single precision float	PROD 3	522
7752	7753	Vapor Press Temperature 1	IEEE single precision float	PROD 3	523
7754	7755	Vapor Pressure 2	IEEE single precision float	PROD 3	524
7756	7757	Vapor Press Temperature 2	IEEE single precision float	PROD 3	525
7758	7759	Vapor Pressure 3	IEEE single precision float	PROD 3	526
7760	7761	Vapor Press Temperature 3	IEEE single precision float	PROD 3	527
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

7762	7763	Minimum Batch Volume	IEEE single precision float	PROD 3	301
7764	7765	Unloading Delta Amount	IEEE single precision float	PROD 3	415
7766	7767	Unloading Contaminant Density	IEEE single precision float	PROD 3	416
7768	7769	Product Stop Amount	IEEE single precision float	PROD 3	213
7770	7771	Product Stop Alarm Limit	IEEE single precision float	PROD 3	214
7772	7773	Reference Density's Temperature	IEEE single precision float	PROD 3	418
7774	7775	Reference Density for C Tables	IEEE single precision float	PROD 3	419
7776	7777	Ethanol Coefficient a1	IEEE single precision float	PROD 3	420
7778	7779	Ethanol Coefficient a2	IEEE single precision float	PROD 3	421
7780	7781	Ethanol Coefficient a3	IEEE single precision float	PROD 3	422
7808		2 <sup>nd</sup> Trip Auto Adjust	unsigned character	PROD 3	208
7809		Meter Factor Variation Select	unsigned character	PROD 3	312
7810		API Table	unsigned character	PROD 3	411
7811		Min BP Flow Timer	unsigned character	PROD 3	513
7812		BP Flow Recovery Timer	unsigned character	PROD 3	516
7813		Vapor Pressure Calc Method	unsigned character	PROD 3	521
7814		Block Valve Delay to Open	unsigned character	PROD 3	211
7815		Block Valve Delay to Close	unsigned character	PROD 3	212
7816		Calculate Current Reference Density	unsigned character	PROD 3	417
7936	7951	Product ID	Text (char[32])	PROD 4	101
7952	7967	HM Class Part 1	Text (char[32])	PROD 4	102
7968	7983	HM Class Part 2	Text (char[32])	PROD 4	103
8000	8001	Minimum Flow Rate	IEEE single precision float	PROD 4	201
8002	8003	High Flow Rate	IEEE single precision float	PROD 4	202
8004	8005	2 <sup>nd</sup> High Flow Rate	IEEE single precision float	PROD 4	203
8006	8007	Flow Tolerance %	IEEE single precision float	PROD 4	204
8008	8009	Flow Tolerance Rate	IEEE single precision float	PROD 4	205
8010	8011	1 <sup>st</sup> Trip Volume	IEEE single precision float	PROD 4	206
8012	8013	2 <sup>nd</sup> Trip Volume	IEEE single precision float	PROD 4	207
8014	8015	Excess High Flow Rate	IEEE single precision float	PROD 4	209
8016	8017	Low Flow Alarm Limit	IEEE single precision float	PROD 4	210
8018	8019	Meter Factor 1	IEEE single precision float	PROD 4	302
8020	8021	Flow Rate 1	IEEE single precision float	PROD 4	303
8022	8023	Meter Factor 2	IEEE single precision float	PROD 4	304
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

8024	8025	Flow Rate 2	IEEE single precision float	PROD 4	305
8026	8027	Meter Factor 3	IEEE single precision float	PROD 4	306
8028	8029	Flow Rate 3	IEEE single precision float	PROD 4	307
8030	8031	Meter Factor 4	IEEE single precision float	PROD 4	308
8032	8033	Flow Rate 4	IEEE single precision float	PROD 4	309
8034	8035	Master Meter Factor	IEEE single precision float	PROD 4	310
8036	8037	Linear Factor Deviation	IEEE single precision float	PROD 4	311
8038	8039	Meter Factor % Change Per Degree	IEEE single precision float	PROD 4	313
8040	8041	Meter Factor Variation Reference Temperature	IEEE single precision float	PROD 4	314
8042	8043	Maintenance Temperature	IEEE single precision float	PROD 4	401
8044	8045	High Temperature Alarm	IEEE single precision float	PROD 4	402
8046	8047	Low Temperature Alarm	IEEE single precision float	PROD 4	403
8048	8049	Reference Density	IEEE single precision float	PROD 4	412
8050	8051	High Density Alarm	IEEE single precision float	PROD 4	413
8052	8053	Low Density Alarm	IEEE single precision float	PROD 4	414
8054	8055	Maintenance Pressure	IEEE single precision float	PROD 4	501
8056	8057	Pressure Coefficient	IEEE single precision float	PROD 4	502
8058	8059	High Pressure Alarm Limit	IEEE single precision float	PROD 4	503
8060	8061	Low Pressure Alarm Limit	IEEE single precision float	PROD 4	504
8062	8063	Differential Pressure	IEEE single precision float	PROD 4	511
8064	8065	Minimum BP Flow Rate	IEEE single precision float	PROD 4	512
8066	8067	BP Percent Reduction	IEEE single precision float	PROD 4	514
8068	8069	BP Flow Recovery Pressure	IEEE single precision float	PROD 4	515
8070	8071	Vapor Pressure 1	IEEE single precision float	PROD 4	522
8072	8073	Vapor Press Temperature 1	IEEE single precision float	PROD 4	523
8074	8075	Vapor Pressure 2	IEEE single precision float	PROD 4	524
8076	8077	Vapor Press Temperature 2	IEEE single precision float	PROD 4	525
8078	8079	Vapor Pressure 3	IEEE single precision float	PROD 4	526
8080	8081	Vapor Press Temp 3	IEEE single precision float	PROD 4	527
8082	8083	Minimum Batch Volume	IEEE single precision float	PROD 4	301
8084	8085	Unloading Delta Amount	IEEE single precision float	PROD 4	415
8086	8087	Unloading Contaminant Density	IEEE single precision float	PROD 4	416
8088	8089	Product Stop Amount	IEEE single precision float	PROD 4	213
8090	8091	Product Stop Alarm Limit	IEEE single precision float	PROD 4	214
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

8092	8093	Reference Density's Temperature	IEEE single precision float	PROD 4	418
8094	8095	Reference Density for C Tables	IEEE single precision float	PROD 4	419
8096	8097	Ethanol Coefficient a1	IEEE single precision float	PROD 4	420
8098	8099	Ethanol Coefficient a2	IEEE single precision float	PROD 4	421
8100	8101	Ethanol Coefficient a3	IEEE single precision float	PROD 4	422
8128		2nd Trip Auto Adjust	unsigned character	PROD 4	208
8129		Meter Factor Variation Select	unsigned character	PROD 4	312
8130		API Table	unsigned character	PROD 4	411
8131		Minimum BP Flow Timer	unsigned character	PROD 4	513
8132		BP Flow Recovery Timer	unsigned character	PROD 4	516
8133		Vapor Pressure Calc Method	unsigned character	PROD 4	521
8134		Block Valve Delay to Open	unsigned character	PROD 4	211
8135		Block Valve Delay to Close	unsigned character	PROD 4	212
8136		Calculate Current Reference Density	unsigned character	PROD 4	417
8256	8271	Product ID	Text (char[32])	PROD 5	101
8272	8287	HM Class Part 1	Text (char[32])	PROD 5	102
8288	8303	HM Class Part 2	Text (char[32])	PROD 5	103
8320	8321	Minimum Flow Rate	IEEE single precision float	PROD 5	201
8322	8323	High Flow Rate	IEEE single precision float	PROD 5	202
8324	8325	2nd High Flow Rate	IEEE single precision float	PROD 5	203
8326	8327	Flow Tolerance %	IEEE single precision float	PROD 5	204
8328	8329	Flow Tolerance Rate	IEEE single precision float	PROD 5	205
8330	8331	1st Trip Volume	IEEE single precision float	PROD 5	206
8332	8333	2nd Trip Volume	IEEE single precision float	PROD 5	207
8334	8335	Excess High Flow Rate	IEEE single precision float	PROD 5	209
8336	8337	Low Flow Alarm Limit	IEEE single precision float	PROD 5	210
8338	8339	Meter Factor 1	IEEE single precision float	PROD 5	302
8340	8341	Flow Rate 1	IEEE single precision float	PROD 5	303
8342	8343	Meter Factor 2	IEEE single precision float	PROD 5	304
8344	8345	Flow Rate 2	IEEE single precision float	PROD 5	305
8346	8347	Meter Factor 3	IEEE single precision float	PROD 5	306
8348	8349	Flow Rate 3	IEEE single precision float	PROD 5	307
8350	8351	Meter Factor 4	IEEE single precision float	PROD 5	308
8352	8353	Flow Rate 4	IEEE single precision float	PROD 5	309
8354	8355	Master Meter Factor	IEEE single precision float	PROD 5	310
<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Point</b>	<b>Data Type</b>	<b>Menu</b>	<b>Parameter</b>

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

8356	8357	Linear Factor Deviation	IEEE single precision float	PROD 5	311
8358	8359	Meter Factor % Change Per Degree	IEEE single precision float	PROD 5	313
8360	8361	Meter Factor Variation Reference Temperature	IEEE single precision float	PROD 5	314
8362	8363	Maintenance Temperature	IEEE single precision float	PROD 5	401
8364	8365	High Temperature Alarm	IEEE single precision float	PROD 5	402
8366	8367	Low Temperature Alarm	IEEE single precision float	PROD 5	403
8368	8369	Reference Density	IEEE single precision float	PROD 5	412
8370	8371	High Density Alarm	IEEE single precision float	PROD 5	413
8372	8373	Low Density Alarm	IEEE single precision float	PROD 5	414
8374	8375	Maintenance Pressure	IEEE single precision float	PROD 5	501
8376	8377	Pressure Coefficient	IEEE single precision float	PROD 5	502
8378	8379	High Pressure Alarm Limit	IEEE single precision float	PROD 5	503
8380	8381	Low Pressure Alarm Limit	IEEE single precision float	PROD 5	504
8382	8383	Differential Pressure	IEEE single precision float	PROD 5	511
8384	8385	Minimum BP Flow Rate	IEEE single precision float	PROD 5	512
8386	8387	BP Percent Reduction	IEEE single precision float	PROD 5	514
8388	8389	BP Flow Recovery Pressure	IEEE single precision float	PROD 5	515
8390	8391	Vapor Pressure 1	IEEE single precision float	PROD 5	522
8392	8393	Vapor Press Temperature 1	IEEE single precision float	PROD 5	523
8394	8395	Vapor Pressure 2	IEEE single precision float	PROD 5	524
8396	8397	Vapor Press Temperature 2	IEEE single precision float	PROD 5	525
8398	8399	Vapor Pressure 3	IEEE single precision float	PROD 5	526
8400	8401	Vapor Press Temperature 3	IEEE single precision float	PROD 5	527
8402	8403	Minimum Batch Volume	IEEE single precision float	PROD 5	301
8404	8405	Unloading Delta Amount	IEEE single precision float	PROD 5	415
8406	8407	Unloading Contaminant Density	IEEE single precision float	PROD 5	416
8408	8409	Product Stop Alarm	IEEE single precision float	PROD 5	213
8410	8411	Product Stop Alarm Limit	IEEE single precision float	PROD 5	214
8412	8413	Reference Density's Temperature	IEEE single precision float	PROD 5	418
8414	8415	Reference Density for C Tables	IEEE single precision float	PROD 5	419
8416	8417	Ethanol Coefficient a1	IEEE single precision float	PROD 5	420
8418	8419	Ethanol Coefficient a2	IEEE single precision float	PROD 5	421
8420	8421	Ethanol Coefficient a3	IEEE single precision float	PROD 5	422
8448		2nd Trip Auto Adjust	unsigned character	PROD 5	208
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

8449		Meter Factor Variation Select	unsigned character	PROD 5	312
8450		API Table	unsigned character	PROD 5	411
8451		Minimum BP Flow Timer	unsigned character	PROD 5	513
8452		BP Flow Recovery Timer	unsigned character	PROD 5	516
8453		Vapor Pressure Calc Method	unsigned character	PROD 5	521
8454		Block Valve Delay to Open	unsigned character	PROD 5	211
8455		Block Valve Delay to Close	unsigned character	PROD 5	212
8456		Calculate Current Reference Density	unsigned character	PROD 5	417
8576	8591	Product ID	Text (char[32])	PROD 6	101
8592	8607	HM Class Part 1	Text (char[32])	PROD 6	102
8608	8623	HM Class Part 2	Text (char[32])	PROD 6	103
8640	8641	Minimum Flow Rate	IEEE single precision float	PROD 6	201
8642	8643	High Flow Rate	IEEE single precision float	PROD 6	202
8644	8645	2nd High Flow Rate	IEEE single precision float	PROD 6	203
8646	8647	Flow Tolerance %	IEEE single precision float	PROD 6	204
8648	8649	Flow Tolerance Rate	IEEE single precision float	PROD 6	205
8650	8651	1st Trip Volume	IEEE single precision float	PROD 6	206
8652	8653	2nd Trip Volume	IEEE single precision float	PROD 6	207
8654	8655	Excess High Flow Rate	IEEE single precision float	PROD 6	209
8656	8657	Low Flow Alarm Limit	IEEE single precision float	PROD 6	210
8658	8659	Meter Factor 1	IEEE single precision float	PROD 6	302
8660	8661	Flow Rate 1	IEEE single precision float	PROD 6	303
8662	8663	Meter Factor 2	IEEE single precision float	PROD 6	304
8664	8665	Flow Rate 2	IEEE single precision float	PROD 6	305
8666	8667	Meter Factor 3	IEEE single precision float	PROD 6	306
8668	8669	Flow Rate 3	IEEE single precision float	PROD 6	307
8670	8671	Meter Factor 4	IEEE single precision float	PROD 6	308
8672	8673	Flow Rate 4	IEEE single precision float	PROD 6	309
8674	8675	Master Meter Factor	IEEE single precision float	PROD 6	310
8676	8677	Linear Factor Deviation	IEEE single precision float	PROD 6	311
8678	8679	Meter Factor % Change Per Degree	IEEE single precision float	PROD 6	313
8680	8681	Meter Factor Variation Reference Temperature	IEEE single precision float	PROD 6	314
8682	8683	Maintenance Temperature	IEEE single precision float	PROD 6	401
8684	8685	High Temperature Alarm	IEEE single precision float	PROD 6	402
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

8686	8687	Low Temperature Alarm	IEEE single precision float	PROD 6	403
8688	8689	Reference Density	IEEE single precision float	PROD 6	412
8690	8691	High Density Alarm	IEEE single precision float	PROD 6	413
8692	8693	Low Density Alarm	IEEE single precision float	PROD 6	414
8694	8695	Maintenance Pressure	IEEE single precision float	PROD 6	501
8696	8697	Pressure Coefficient	IEEE single precision float	PROD 6	502
8698	8699	High Pressure Alarm Limit	IEEE single precision float	PROD 6	503
8700	8701	Low Pressure Alarm Limit	IEEE single precision float	PROD 6	504
8702	8703	Differential Pressure	IEEE single precision float	PROD 6	511
8704	8705	Minimum BP Flow Rate	IEEE single precision float	PROD 6	512
8706	8707	BP Percent Reduction	IEEE single precision float	PROD 6	514
8708	8709	BP Flow Recovery Pressure	IEEE single precision float	PROD 6	515
8710	8711	Vapor Pressure 1	IEEE single precision float	PROD 6	522
8712	8713	Vapor Press Temperature 1	IEEE single precision float	PROD 6	523
8714	8715	Vapor Pressure 2	IEEE single precision float	PROD 6	524
8716	8717	Vapor Press Temperature 2	IEEE single precision float	PROD 6	525
8718	8719	Vapor Pressure 3	IEEE single precision float	PROD 6	526
8720	8721	Vapor Press Temperature 3	IEEE single precision float	PROD 6	527
8722	8723	Minimum Batch Volume	IEEE single precision float	PROD 6	301
8724	8725	Unloading Delta Amount	IEEE single precision float	PROD 6	415
8726	8727	Unloading Contaminant Density	IEEE single precision float	PROD 6	416
8728	8729	Product Stop Amount	IEEE single precision float	PROD 6	213
8730	8731	Product Stop Alarm Limit	IEEE single precision float	PROD 6	214
8732	8733	Reference Density's Temperature	IEEE single precision float	PROD 6	418
8734	8735	Reference Density for C Tables	IEEE single precision float	PROD 6	419
8736	8737	Ethanol Coefficient a1	IEEE single precision float	PROD 6	420
8738	8739	Ethanol Coefficient a2	IEEE single precision float	PROD 6	421
8740	8741	Ethanol Coefficient a3	IEEE single precision float	PROD 6	422
8768		2nd Trip Auto Adjust	unsigned character	PROD 6	208
8769		Meter Factor Variation Select	unsigned character	PROD 6	312
8770		API Table	unsigned character	PROD 6	411
8771		Minimum BP Flow Timer	unsigned character	PROD 6	513
8772		BP Flow Recovery Timer	unsigned character	PROD 6	516
8773		Vapor Pressure Calc Method	unsigned character	PROD 6	521
8774		Block Valve Delay to Open	unsigned character	PROD 6	211
Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter

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8775		Block Valve Delay to Close	unsigned character	PROD 6	212
8776		Calculate Current Reference Density	unsigned character	PRDO 6	417

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### Recipe Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9216	9223	Recipe Name	Text (char[16])	REC 1	002
9280	9281	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 1	017
9282	9283	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 1	020
9284	9285	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 1	023
9286	9287	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 1	026
9288	9289	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 1	029
9290	9291	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 1	032
9292	9293	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 1	035
9294	9295	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 1	038
9296	9297	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 1	041
9298	9299	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 1	044
9300	9301	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 1	047
9302	9303	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 1	050
9304	9305	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 1	053
9306	9307	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 1	056
9308	9309	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 1	059
9310	9311	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 1	062
9312	9313	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 1	065
9314	9315	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 1	068
9316	9317	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 1	071
9318	9319	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 1	074
9320	9321	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 1	077
9322	9323	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 1	080
9324	9325	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 1	083
9326	9327	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 1	086
9328	9329	Add Injector 1 Rate	IEEE single precision float	REC 1	018
9330	9331	Add Injector 2 Rate	IEEE single precision float	REC 1	021
9332	9333	Add Injector 3 Rate	IEEE single precision float	REC 1	024
9334	9335	Add Injector 4 Rate	IEEE single precision float	REC 1	027
9336	9337	Add Injector 5 Rate	IEEE single precision float	REC 1	030
9338	9339	Add Injector 6 Rate	IEEE single precision float	REC 1	033
9340	9341	Add Injector 7 Rate	IEEE single precision float	REC 1	036
9342	9343	Add Injector 8 Rate	IEEE single precision float	REC 1	039

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9344		Recipe Used	unsigned character	REC 1	001
9345		HM Class Product	unsigned character	REC 1	003
9346		1 <sup>st</sup> Delivered	unsigned character	REC 1	004
9347		2 <sup>nd</sup> Delivered	unsigned character	REC 1	006
9348		3 <sup>rd</sup> Delivered	unsigned character	REC 1	008
9349		4 <sup>th</sup> Delivered	unsigned character	REC 1	010
9350		5 <sup>th</sup> Delivered	unsigned character	REC 1	012
9351		6 <sup>th</sup> Delivered	unsigned character	REC 1	014
9352		Product Using Inj 1	unsigned character	REC 1	019
9353		Product Using Inj 2	unsigned character	REC 1	022
9354		Product Using Inj 3	unsigned character	REC 1	025
9355		Product Using Inj 4	unsigned character	REC 1	028
9356		Product Using Inj 5	unsigned character	REC 1	031
9357		Product Using Inj 6	unsigned character	REC 1	034
9358		Product Using Inj 7	unsigned character	REC 1	037
9359		Product Using Inj 8	unsigned character	REC 1	040
9360		Product Using Inj 9	unsigned character	REC 1	043
9361		Product Using Inj 10	unsigned character	REC 1	046
9362		Product Using Inj 11	unsigned character	REC 1	049
9363		Product Using Inj 12	unsigned character	REC 1	052
9364		Product Using Inj 13	unsigned character	REC 1	055
9365		Product Using Inj 14	unsigned character	REC 1	058
9366		Product Using Inj 15	unsigned character	REC 1	061
9367		Product Using Inj 16	unsigned character	REC 1	064
9368		Product Using Inj 17	unsigned character	REC 1	067
9369		Product Using Inj 18	unsigned character	REC 1	070
9370		Product Using Inj 19	unsigned character	REC 1	073
9371		Product Using Inj 20	unsigned character	REC 1	076
9372		Product Using Inj 21	unsigned character	REC 1	079
9373		Product Using Inj 22	unsigned character	REC 1	082
9374		Product Using Inj 23	unsigned character	REC 1	085
9375		Product Using Inj 24	unsigned character	REC 1	088
9376		Clean Line Deduct	unsigned character	REC 1	016
9377		Clean Line Product	unsigned character	REC 1	089
9378		Ratio/Sequential Delivery Mode	unsigned character	REC 1	090
9408	9409	Add Injector 9 Rate	IEEE single precision float	REC 1	042

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9410	9411	Add Injector 10 Rate	IEEE single precision float	REC 1	045
9412	9413	Add Injector 11 Rate	IEEE single precision float	REC 1	048
9414	9415	Add Injector 12 Rate	IEEE single precision float	REC 1	051
9416	9417	Add Injector 13 Rate	IEEE single precision float	REC 1	054
9418	9419	Add Injector 14 Rate	IEEE single precision float	REC 1	057
9420	9421	Add Injector 15 Rate	IEEE single precision float	REC 1	060
9422	9423	Add Injector 16 Rate	IEEE single precision float	REC 1	063
9424	9425	Add Injector 17 Rate	IEEE single precision float	REC 1	066
9426	9427	Add Injector 18 Rate	IEEE single precision float	REC 1	069
9428	9429	Add Injector 19 Rate	IEEE single precision float	REC 1	072
9430	9431	Add Injector 20 Rate	IEEE single precision float	REC 1	075
9432	9433	Add Injector 21 Rate	IEEE single precision float	REC 1	078
9434	9435	Add Injector 22 Rate	IEEE single precision float	REC 1	081
9436	9437	Add Injector 23 Rate	IEEE single precision float	REC 1	084
9438	9439	Add Injector 24 Rate	IEEE single precision float	REC 1	087
9440	9441	1st Percentage	IEEE single precision float	REC 1	005
9442	9443	2nd Percentage	IEEE single precision float	REC 1	007
9444	9445	3rd Percentage	IEEE single precision float	REC 1	009
9446	9447	4th Percentage	IEEE single precision float	REC 1	011
9448	9449	5th Percentage	IEEE single precision float	REC 1	013
9450	9451	6th Percentage	IEEE single precision float	REC 1	015
9472	9479	Recipe Name	Text (char[16])	REC 2	002
9536	9537	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 2	017
9538	9539	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 2	020
9540	9541	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 2	023
9542	9543	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 2	026
9544	9545	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 2	029
9546	9547	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 2	032
9548	9549	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 2	035
9550	9551	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 2	038
9552	9553	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 2	041
9554	9555	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 2	044
9556	9557	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 2	047
9558	9559	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 2	050
9560	9561	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 2	053
9562	9563	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 2	056

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9564	9565	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 2	059
9566	9567	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 2	062
9568	9569	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 2	065
9570	9571	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 2	068
9572	9573	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 2	071
9574	9575	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 2	074
9576	9577	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 2	077
9578	9579	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 2	080
9580	9581	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 2	083
9582	9583	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 2	086
9584	9585	Add Injector 1 Rate	IEEE single precision float	REC 2	018
9586	9587	Add Injector 2 Rate	IEEE single precision float	REC 2	021
9588	9589	Add Injector 3 Rate	IEEE single precision float	REC 2	024
9590	9591	Add Injector 4 Rate	IEEE single precision float	REC 2	027
9592	9593	Add Injector 5 Rate	IEEE single precision float	REC 2	030
9594	9595	Add Injector 6 Rate	IEEE single precision float	REC 2	033
9596	9597	Add Injector 7 Rate	IEEE single precision float	REC 2	036
9598	9599	Add Injector 8 Rate	IEEE single precision float	REC 2	039
9600		Recipe Used	unsigned character	REC 2	001
9601		HM Class Prod	unsigned character	REC 2	003
9602		1 <sup>st</sup> Delivered	unsigned character	REC 2	004
9603		2 <sup>nd</sup> Delivered	unsigned character	REC 2	006
9604		3 <sup>rd</sup> Delivered	unsigned character	REC 2	008
9605		4 <sup>th</sup> Delivered	unsigned character	REC 2	010
9606		5 <sup>th</sup> Delivered	unsigned character	REC 2	012
9607		6 <sup>th</sup> Delivered	unsigned character	REC 2	014
9608		Product Using Inj 1	unsigned character	REC 2	019
9609		Product Using Inj 2	unsigned character	REC 2	022
9610		Product Using Inj 3	unsigned character	REC 2	025
9611		Product Using Inj 4	unsigned character	REC 2	028
9612		Product Using Inj 5	unsigned character	REC 2	031
9613		Product Using Inj 6	unsigned character	REC 2	034
9614		Product Using Inj 7	unsigned character	REC 2	037
9615		Product Using Inj 8	unsigned character	REC 2	040
9616		Product Using Inj 9	unsigned character	REC 2	043

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9617		Product Using Inj 10	unsigned character	REC 2	046
9618		Product Using Inj 11	unsigned character	REC 2	049
9619		Product Using Inj 12	unsigned character	REC 2	052
9620		Product Using Inj 13	unsigned character	REC 2	055
9621		Product Using Inj 14	unsigned character	REC 2	058
9622		Product Using Inj 15	unsigned character	REC 2	061
9623		Product Using Inj 16	unsigned character	REC 2	064
9624		Product Using Inj 17	unsigned character	REC 2	067
9625		Product Using Inj 18	unsigned character	REC 2	070
9626		Product Using Inj 19	unsigned character	REC 2	073
9627		Product Using Inj 20	unsigned character	REC 2	076
9628		Product Using Inj 21	unsigned character	REC 2	079
9629		Product Using Inj 22	unsigned character	REC 2	082
9630		Product Using Inj 23	unsigned character	REC 2	085
9631		Product Using Inj 24	unsigned character	REC 2	088
9632		Clean Line Deduct	unsigned character	REC 2	016
9633		Clean Line Product	unsigned character	REC 2	089
9634		Ratio/Sequential Delivery Mode	unsigned character	REC 2	090
9664	9665	Add Injector 9 Rate	IEEE single precision float	REC 2	042
9666	9667	Add Injector 10 Rate	IEEE single precision float	REC 2	045
9668	9669	Add Injector 11 Rate	IEEE single precision float	REC 2	048
9670	9671	Add Injector 12 Rate	IEEE single precision float	REC 2	051
9672	9673	Add Injector 13 Rate	IEEE single precision float	REC 2	054
9674	9675	Add Injector 14 Rate	IEEE single precision float	REC 2	057
9676	9677	Add Injector 15 Rate	IEEE single precision float	REC 2	060
9678	9679	Add Injector 16 Rate	IEEE single precision float	REC 2	063
9680	9681	Add Injector 17 Rate	IEEE single precision float	REC 2	066
9682	9683	Add Injector 18 Rate	IEEE single precision float	REC 2	069
9684	9685	Add Injector 19 Rate	IEEE single precision float	REC 2	072
9686	9687	Add Injector 20 Rate	IEEE single precision float	REC 2	075
9688	9689	Add Injector 21 Rate	IEEE single precision float	REC 2	078
9690	9691	Add Injector 22 Rate	IEEE single precision float	REC 2	081
9692	9693	Add Injector 23 Rate	IEEE single precision float	REC 2	084
9694	9695	Add Injector 24 Rate	IEEE single precision float	REC 2	087
9696	9697	1st Percentage	IEEE single precision float	REC 2	005
9698	9699	2nd Percentage	IEEE single precision float	REC 2	007



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9700	9701	3rd Percentage	IEEE single precision float	REC 2	009
9702	9703	4 <sup>th</sup> Percentage	IEEE single precision float	REC 2	011
9704	9705	5 <sup>th</sup> Percentage	IEEE single precision float	REC 2	013
9706	9707	6 <sup>th</sup> Percentage	IEEE single precision float	REC 2	015
9728	9735	Recipe Name	Text (char[16])	REC 3	002
9792	9793	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 3	017
9794	9795	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 3	020
9796	9797	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 3	023
9798	9799	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 3	026
9800	9801	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 3	029
9802	9803	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 3	032
9804	9805	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 3	035
9806	9807	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 3	038
9808	9809	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 3	041
9810	9811	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 3	044
9812	9813	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 3	047
9814	9815	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 3	050
9816	9817	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 3	053
9818	9819	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 3	056
9820	9821	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 3	059
9822	9823	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 3	062
9824	9825	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 3	065
9826	9827	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 3	068
9828	9829	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 3	071
9830	9831	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 3	074
9832	9833	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 3	077
9834	9835	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 3	080
9836	9837	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 3	083
9838	9839	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 3	086
9840	9841	Add Injector 1 Rate	IEEE single precision float	REC 3	018
9842	9843	Add Injector 2 Rate	IEEE single precision float	REC 3	021
9844	9845	Add Injector 3 Rate	IEEE single precision float	REC 3	024
9846	9847	Add Injector 4 Rate	IEEE single precision float	REC 3	027
9848	9849	Add Injector 5 Rate	IEEE single precision float	REC 3	030
9850	9851	Add Injector 6 Rate	IEEE single precision float	REC 3	033
9852	9853	Add Injector 7 Rate	IEEE single precision float	REC 3	036

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9854	9855	Add Injector 8 Rate	IEEE single precision float	REC 3	039
9856		Recipe Used	unsigned character	REC 3	001
9857		HM Class Prod	unsigned character	REC 3	003
9858		1st Delivered	unsigned character	REC 3	004
9859		2nd Delivered	unsigned character	REC 3	006
9860		3rd Delivered	unsigned character	REC 3	008
9861		4th Delivered	unsigned character	REC 3	010
9862		5th Delivered	unsigned character	REC 3	012
9863		6th Delivered	unsigned character	REC 3	014
9864		Product Using Inj 1	unsigned character	REC 3	019
9865		Product Using Inj 2	unsigned character	REC 3	022
9866		Product Using Inj 3	unsigned character	REC 3	025
9867		Product Using Inj 4	unsigned character	REC 3	028
9868		Product Using Inj 5	unsigned character	REC 3	031
9869		Product Using Inj 6	unsigned character	REC 3	034
9870		Product Using Inj 7	unsigned character	REC 3	037
9871		Product Using Inj 8	unsigned character	REC 3	040
9872		Product Using Inj 9	unsigned character	REC 3	043
9873		Product Using Inj 10	unsigned character	REC 3	046
9874		Product Using Inj 11	unsigned character	REC 3	049
9875		Product Using Inj 12	unsigned character	REC 3	052
9876		Product Using Inj 13	unsigned character	REC 3	055
9877		Product Using Inj 14	unsigned character	REC 3	058
9878		Product Using Inj 15	unsigned character	REC 3	061
9879		Product Using Inj 16	unsigned character	REC 3	064
9880		Product Using Inj 17	unsigned character	REC 3	067
9881		Product Using Inj 18	unsigned character	REC 3	070
9882		Product Using Inj 19	unsigned character	REC 3	073
9883		Product Using Inj 20	unsigned character	REC 3	076
9884		Product Using Inj 21	unsigned character	REC 3	079
9885		Product Using Inj 22	unsigned character	REC 3	082
9886		Product Using Inj 23	unsigned character	REC 3	085
9887		Product Using Inj 24	unsigned character	REC 3	088
9888		Clean Line Deduct	unsigned character	REC 3	016
9889		Clean Line Product	unsigned character	REC 3	089
9890		Ratio/Sequential Delivery Mode	unsigned character	REC 3	090

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
9920	9921	Add Injector 9 Rate	IEEE single precision float	REC 3	042
9922	9923	Add Injector 10 Rate	IEEE single precision float	REC 3	045
9924	9925	Add Injector 11 Rate	IEEE single precision float	REC 3	048
9926	9927	Add Injector 12 Rate	IEEE single precision float	REC 3	051
9928	9929	Add Injector 13 Rate	IEEE single precision float	REC 3	054
9930	9931	Add Injector 14 Rate	IEEE single precision float	REC 3	057
9932	9933	Add Injector 15 Rate	IEEE single precision float	REC 3	060
9934	9935	Add Injector 16 Rate	IEEE single precision float	REC 3	063
9936	9937	Add Injector 17 Rate	IEEE single precision float	REC 3	066
9938	9939	Add Injector 18 Rate	IEEE single precision float	REC 3	069
9940	9941	Add Injector 19 Rate	IEEE single precision float	REC 3	072
9942	9943	Add Injector 20 Rate	IEEE single precision float	REC 3	075
9944	9945	Add Injector 21 Rate	IEEE single precision float	REC 3	078
9946	9947	Add Injector 22 Rate	IEEE single precision float	REC 3	081
9948	9949	Add Injector 23 Rate	IEEE single precision float	REC 3	084
9950	9951	Add Injector 24 Rate	IEEE single precision float	REC 3	087
9952	9953	1st Percentage	IEEE single precision float	REC 3	005
9954	9955	2nd Percentage	IEEE single precision float	REC 3	007
9956	9957	3rd Percentage	IEEE single precision float	REC 3	009
9958	9959	4th Percentage	IEEE single precision float	REC 3	011
9960	9961	5th Percentage	IEEE single precision float	REC 3	013
9962	9963	6th Percentage	IEEE single precision float	REC 3	015
9984	9991	Recipe Name	Text (char[16])	REC 4	002
10048	10049	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 4	017
10050	10051	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 4	020
10052	10053	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 4	023
10054	10055	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 4	026
10056	10057	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 4	029
10058	10059	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 4	032
10060	10061	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 4	035
10062	10063	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 4	038
10064	10065	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 4	041
10066	10067	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 4	044
10068	10069	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 4	047
10070	10071	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 4	050
10072	10073	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 4	053

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10074	10075	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 4	056
10076	10077	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 4	059
10078	10079	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 4	062
10080	10081	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 4	065
10082	10083	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 4	068
10084	10085	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 4	071
10086	10087	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 4	074
10088	10089	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 4	077
10090	10091	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 4	080
10092	10093	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 4	083
10094	10095	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 4	086
10096	10097	Add Injector 1 Rate	IEEE single precision float	REC 4	018
10098	10099	Add Injector 2 Rate	IEEE single precision float	REC 4	021
10100	10101	Add Injector 3 Rate	IEEE single precision float	REC 4	024
10102	10103	Add Injector 4 Rate	IEEE single precision float	REC 4	027
10104	10105	Add Injector 5 Rate	IEEE single precision float	REC 4	030
10106	10107	Add Injector 6 Rate	IEEE single precision float	REC 4	033
10108	10109	Add Injector 7 Rate	IEEE single precision float	REC 4	036
10110	10111	Add Injector 8 Rate	IEEE single precision float	REC 4	039
10112		Recipe Used	unsigned character	REC 4	001
10113		HM Class Prod	unsigned character	REC 4	003
10114		1st Delivered	unsigned character	REC 4	004
10115		2nd Delivered	unsigned character	REC 4	006
10116		3rd Delivered	unsigned character	REC 4	008
10117		4th Delivered	unsigned character	REC 4	010
10118		5th Delivered	unsigned character	REC 4	012
10119		6th Delivered	unsigned character	REC 4	014
10120		Product Using Inj 1	unsigned character	REC 4	019
10121		Product Using Inj 2	unsigned character	REC 4	022
10122		Product Using Inj 3	unsigned character	REC 4	025
10123		Product Using Inj 4	unsigned character	REC 4	028
10124		Product Using Inj 5	unsigned character	REC 4	031
10125		Product Using Inj 6	unsigned character	REC 4	034
10126		Product Using Inj 7	unsigned character	REC 4	037
10127		Product Using Inj 8	unsigned character	REC 4	040

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10128		Product Using Inj 9	unsigned character	REC 4	043
10129		Product Using Inj 10	unsigned character	REC 4	046
10130		Product Using Inj 11	unsigned character	REC 4	049
10131		Product Using Inj 12	unsigned character	REC 4	052
10132		Product Using Inj 13	unsigned character	REC 4	055
10133		Product Using Inj 14	unsigned character	REC 4	058
10134		Product Using Inj 15	unsigned character	REC 4	061
10135		Product Using Inj 16	unsigned character	REC 4	064
10136		Product Using Inj 17	unsigned character	REC 4	067
10137		Product Using Inj 18	unsigned character	REC 4	070
10138		Product Using Inj 19	unsigned character	REC 4	073
10139		Product Using Inj 20	unsigned character	REC 4	076
10140		Product Using Inj 21	unsigned character	REC 4	079
10141		Product Using Inj 22	unsigned character	REC 4	082
10142		Product Using Inj 23	unsigned character	REC 4	085
10143		Product Using Inj 24	unsigned character	REC 4	088
10144		Clean Line Deduct	unsigned character	REC 4	016
10145		Clean Line Product	unsigned character	REC 4	089
10146		Ratio/Sequential Delivery Mode	unsigned character	REC 4	090
10176	10177	Add Injector 9 Rate	IEEE single precision float	REC 4	042
10178	10179	Add Injector 10 Rate	IEEE single precision float	REC 4	045
10180	10181	Add Injector 11 Rate	IEEE single precision float	REC 4	048
10182	10183	Add Injector 12 Rate	IEEE single precision float	REC 4	051
10184	10185	Add Injector 13 Rate	IEEE single precision float	REC 4	054
10186	10187	Add Injector 14 Rate	IEEE single precision float	REC 4	057
10188	10189	Add Injector 15 Rate	IEEE single precision float	REC 4	060
10190	10191	Add Injector 16 Rate	IEEE single precision float	REC 4	063
10192	10193	Add Injector 17 Rate	IEEE single precision float	REC 4	066
10194	10195	Add Injector 18 Rate	IEEE single precision float	REC 4	069
10196	10197	Add Injector 19 Rate	IEEE single precision float	REC 4	072
10198	10199	Add Injector 20 Rate	IEEE single precision float	REC 4	075
10200	10201	Add Injector 21 Rate	IEEE single precision float	REC 4	078
10202	10203	Add Injector 22 Rate	IEEE single precision float	REC 4	081
10204	10205	Add Injector 23 Rate	IEEE single precision float	REC 4	084
10206	10207	Add Injector 24 Rate	IEEE single precision float	REC 4	087
10208	10209	1 <sup>st</sup> Percentage	IEEE single precision float	REC 4	005

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10210	10211	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 4	007
10212	10213	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 4	009
10214	10215	4 <sup>th</sup> Percentage	IEEE single precision float	REC 4	011
10216	10217	5 <sup>th</sup> Percentage	IEEE single precision float	REC 4	013
10218	10219	6 <sup>th</sup> Percentage	IEEE single precision float	REC 4	015
10240	10247	Recipe Name	Text (char[16])	REC 5	002
10304	10305	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 5	017
10306	10307	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 5	020
10308	10309	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 5	023
10310	10311	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 5	026
10312	10313	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 5	029
10314	10315	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 5	032
10316	10317	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 5	035
10318	10319	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 5	038
10320	10321	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 5	041
10322	10323	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 5	044
10324	10325	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 5	047
10326	10327	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 5	050
10328	10329	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 5	053
10330	10331	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 5	056
10332	10333	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 5	059
10334	10335	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 5	062
10336	10337	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 5	065
10338	10339	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 5	068
10340	10341	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 5	071
10342	10343	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 5	074
10344	10345	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 5	077
10346	10347	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 5	080
10348	10349	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 5	083
10350	10351	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 5	086
10352	10353	Add Injector 1 Rate	IEEE single precision float	REC 5	018
10354	10355	Add Injector 2 Rate	IEEE single precision float	REC 5	021
10356	10357	Add Injector 3 Rate	IEEE single precision float	REC 5	024
10358	10359	Add Injector 4 Rate	IEEE single precision float	REC 5	027
10360	10361	Add Injector 5 Rate	IEEE single precision float	REC 5	030
10362	10363	Add Injector 6 Rate	IEEE single precision float	REC 5	033

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10364	10365	Add Injector 7 Rate	IEEE single precision float	REC 5	036
10366	10367	Add Injector 8 Rate	IEEE single precision float	REC 5	039
10368		Recipe Used	unsigned character	REC 5	001
10369		HM Class Prod	unsigned character	REC 5	003
10370		1 <sup>st</sup> Delivered	unsigned character	REC 5	004
10371		2 <sup>nd</sup> Delivered	unsigned character	REC 5	006
10372		3 <sup>rd</sup> Delivered	unsigned character	REC 5	008
10373		4 <sup>th</sup> Delivered	unsigned character	REC 5	010
10374		5 <sup>th</sup> Delivered	unsigned character	REC 5	012
10375		6 <sup>th</sup> Delivered	unsigned character	REC 5	014
10376		Product Using Inj 1	unsigned character	REC 5	019
10377		Product Using Inj 2	unsigned character	REC 5	022
10378		Product Using Inj 3	unsigned character	REC 5	025
10379		Product Using Inj 4	unsigned character	REC 5	028
10380		Product Using Inj 5	unsigned character	REC 5	031
10381		Product Using Inj 6	unsigned character	REC 5	034
10382		Product Using Inj 7	unsigned character	REC 5	037
10383		Product Using Inj 8	unsigned character	REC 5	040
10384		Product Using Inj 9	unsigned character	REC 5	043
10385		Product Using Inj 10	unsigned character	REC 5	046
10386		Product Using Inj 11	unsigned character	REC 5	049
10387		Product Using Inj 12	unsigned character	REC 5	052
10388		Product Using Inj 13	unsigned character	REC 5	055
10389		Product Using Inj 14	unsigned character	REC 5	058
10390		Product Using Inj 15	unsigned character	REC 5	061
10391		Product Using Inj 16	unsigned character	REC 5	064
10392		Product Using Inj 17	unsigned character	REC 5	067
10393		Product Using Inj 18	unsigned character	REC 5	070
10394		Product Using Inj 19	unsigned character	REC 5	073
10395		Product Using Inj 20	unsigned character	REC 5	076
10396		Product Using Inj 21	unsigned character	REC 5	079
10397		Product Using Inj 22	unsigned character	REC 5	082
10398		Product Using Inj 23	unsigned character	REC 5	085
10399		Product Using Inj 24	unsigned character	REC 5	088
10400		Clean Line Deduct	unsigned character	REC 5	016
10401		Clean Line Product	unsigned character	REC 5	089

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10402		Ratio/Sequential Delivery Mode	unsigned character	REC 5	090
10432	10433	Add Injector 9 Rate	IEEE single precision float	REC 5	042
10434	10435	Add Injector 10 Rate	IEEE single precision float	REC 5	045
10436	10437	Add Injector 11 Rate	IEEE single precision float	REC 5	048
10438	10439	Add Injector 12 Rate	IEEE single precision float	REC 5	051
10440	10441	Add Injector 13 Rate	IEEE single precision float	REC 5	054
10442	10443	Add Injector 14 Rate	IEEE single precision float	REC 5	057
10444	10445	Add Injector 15 Rate	IEEE single precision float	REC 5	060
10446	10447	Add Injector 16 Rate	IEEE single precision float	REC 5	063
10448	10449	Add Injector 17 Rate	IEEE single precision float	REC 5	066
10450	10451	Add Injector 18 Rate	IEEE single precision float	REC 5	069
10452	10453	Add Injector 19 Rate	IEEE single precision float	REC 5	072
10454	10455	Add Injector 20 Rate	IEEE single precision float	REC 5	075
10456	10457	Add Injector 21 Rate	IEEE single precision float	REC 5	078
10458	10459	Add Injector 22 Rate	IEEE single precision float	REC 5	081
10460	10461	Add Injector 23 Rate	IEEE single precision float	REC 5	084
10462	10463	Add Injector 24 Rate	IEEE single precision float	REC 5	087
10464	10465	1st Percentage	IEEE single precision float	REC 5	005
10466	10467	2nd Percentage	IEEE single precision float	REC 5	007
10468	10469	3rd Percentage	IEEE single precision float	REC 5	009
10470	10471	4th Percentage	IEEE single precision float	REC 5	011
10472	10473	5th Percentage	IEEE single precision float	REC 5	013
10474	10475	6th Percentage	IEEE single precision float	REC 5	015
10496	10503	Recipe Name	Text (char[16])	REC 6	002
10560	10561	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 6	017
10562	10563	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 6	020
10564	10565	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 6	023
10566	10567	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 6	026
10568	10569	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 6	029
10570	10571	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 6	032
10572	10573	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 6	035
10574	10575	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 6	038
10576	10577	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 6	041
10578	10579	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 6	044
10580	10581	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 6	047
10582	10583	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 6	050



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10584	10585	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 6	053
10586	10587	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 6	056
10588	10589	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 6	059
10590	10591	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 6	062
10592	10593	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 6	065
10594	10595	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 6	068
10596	10597	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 6	071
10598	10599	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 6	074
10600	10601	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 6	077
10602	10603	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 6	080
10604	10605	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 6	083
10606	10607	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 6	086
10608	10609	Add Injector 1 Rate	IEEE single precision float	REC 6	018
10610	10611	Add Injector 2 Rate	IEEE single precision float	REC 6	021
10612	10613	Add Injector 3 Rate	IEEE single precision float	REC 6	024
10614	10615	Add Injector 4 Rate	IEEE single precision float	REC 6	027
10616	10617	Add Injector 5 Rate	IEEE single precision float	REC 6	030
10618	10619	Add Injector 6 Rate	IEEE single precision float	REC 6	033
10620	10621	Add Injector 7 Rate	IEEE single precision float	REC 6	036
10622	10623	Add Injector 8 Rate	IEEE single precision float	REC 6	039
10624		Recipe Used	unsigned character	REC 6	001
10625		HM Class Product	unsigned character	REC 6	003
10626		1 <sup>st</sup> Delivered	unsigned character	REC 6	004
10627		2 <sup>nd</sup> Delivered	unsigned character	REC 6	006
10628		3 <sup>rd</sup> Delivered	unsigned character	REC 6	008
10629		4 <sup>th</sup> Delivered	unsigned character	REC 6	010
10630		5 <sup>th</sup> Delivered	unsigned character	REC 6	012
10631		6 <sup>th</sup> Delivered	unsigned character	REC 6	014
10632		Product Using Inj 1	unsigned character	REC 6	019
10633		Product Using Inj 2	unsigned character	REC 6	022
10634		Product Using Inj 3	unsigned character	REC 6	025
10635		Product Using Inj 4	unsigned character	REC 6	028
10636		Product Using Inj 5	unsigned character	REC 6	031
10637		Product Using Inj 6	unsigned character	REC 6	034
10638		Product Using Inj 7	unsigned character	REC 6	037

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10639		Product Using Inj 8	unsigned character	REC 6	040
10640		Product Using Inj 9	unsigned character	REC 6	043
10641		Product Using Inj 10	unsigned character	REC 6	046
10642		Product Using Inj 11	unsigned character	REC 6	049
10643		Product Using Inj 12	unsigned character	REC 6	052
10644		Product Using Inj 13	unsigned character	REC 6	055
10645		Product Using Inj 14	unsigned character	REC 6	058
10646		Product Using Inj 15	unsigned character	REC 6	061
10647		Product Using Inj 16	unsigned character	REC 6	064
10648		Product Using Inj 17	unsigned character	REC 6	067
10649		Product Using Inj 18	unsigned character	REC 6	070
10650		Product Using Inj 19	unsigned character	REC 6	073
10651		Product Using Inj 20	unsigned character	REC 6	076
10652		Product Using Inj 21	unsigned character	REC 6	079
10653		Product Using Inj 22	unsigned character	REC 6	082
10654		Product Using Inj 23	unsigned character	REC 6	085
10655		Product Using Inj 24	unsigned character	REC 6	088
10656		Clean Line Deduct	unsigned character	REC 6	016
10657		Clean Line product	unsigned character	REC 6	089
10658		Ratio/Sequential Delivery Mode	unsigned character	REC 6	090
10688	10689	Add Injector 9 Rate	IEEE single precision float	REC 6	042
10690	10691	Add Injector 10 Rate	IEEE single precision float	REC 6	045
10692	10693	Add Injector 11 Rate	IEEE single precision float	REC 6	048
10694	10695	Add Injector 12 Rate	IEEE single precision float	REC 6	051
10696	10697	Add Injector 13 Rate	IEEE single precision float	REC 6	054
10698	10699	Add Injector 14 Rate	IEEE single precision float	REC 6	057
10700	10701	Add Injector 15 Rate	IEEE single precision float	REC 6	060
10702	10703	Add Injector 16 Rate	IEEE single precision float	REC 6	063
10704	10705	Add Injector 17 Rate	IEEE single precision float	REC 6	066
10706	10707	Add Injector 18 Rate	IEEE single precision float	REC 6	069
10708	10709	Add Injector 19 Rate	IEEE single precision float	REC 6	072
10710	10711	Add Injector 20 Rate	IEEE single precision float	REC 6	075
10712	10713	Add Injector 21 Rate	IEEE single precision float	REC 6	078
10714	10715	Add Injector 22 Rate	IEEE single precision float	REC 6	081
10716	10717	Add Injector 23 Rate	IEEE single precision float	REC 6	084
10718	10719	Add Injector 24 Rate	IEEE single precision float	REC 6	087

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10720	10721	1st Percentage	IEEE single precision float	REC 6	005
10722	10723	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 6	007
10724	10725	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 6	009
10726	10727	4 <sup>th</sup> Percentage	IEEE single precision float	REC 6	011
10728	10729	5 <sup>th</sup> Percentage	IEEE single precision float	REC 6	013
10730	10731	6 <sup>th</sup> Percentage	IEEE single precision float	REC 6	015
10752	10759	Recipe Name	Text (char[16])	REC 7	002
10816	10817	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 7	017
10818	10819	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 7	020
10820	10821	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 7	023
10822	10823	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 7	026
10824	10825	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 7	029
10826	10827	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 7	032
10828	10829	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 7	035
10830	10831	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 7	038
10832	10833	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 7	041
10834	10835	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 7	044
10836	10837	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 7	047
10838	10839	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 7	050
10840	10841	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 7	053
10842	10843	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 7	056
10844	10845	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 7	059
10846	10847	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 7	062
10848	10849	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 7	065
10850	10851	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 7	068
10852	10853	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 7	071
10854	10855	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 7	074
10856	10857	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 7	077
10858	10859	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 7	080
10860	10861	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 7	083
10862	10863	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 7	086
10864	10865	Add Injector 1 Rate	IEEE single precision float	REC 7	018
10866	10867	Add Injector 2 Rate	IEEE single precision float	REC 7	021
10868	10869	Add Injector 3 Rate	IEEE single precision float	REC 7	024
10870	10871	Add Injector 4 Rate	IEEE single precision float	REC 7	027
10872	10873	Add Injector 5 Rate	IEEE single precision float	REC 7	030

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10874	10875	Add Injector 6 Rate	IEEE single precision float	REC 7	033
10876	10877	Add Injector 7 Rate	IEEE single precision float	REC 7	036
10878	10879	Add Injector 8 Rate	IEEE single precision float	REC 7	039
10880		Recipe Used	unsigned character	REC 7	001
10881		HM Class Product	unsigned character	REC 7	003
10882		1 <sup>st</sup> Delivered	unsigned character	REC 7	004
10883		2 <sup>nd</sup> Delivered	unsigned character	REC 7	006
10884		3 <sup>rd</sup> Delivered	unsigned character	REC 7	008
10885		4 <sup>th</sup> Delivered	unsigned character	REC 7	010
10886		5 <sup>th</sup> Delivered	unsigned character	REC 7	012
10887		6 <sup>th</sup> Delivered	unsigned character	REC 7	014
10888		Product Using Inj 1	unsigned character	REC 7	019
10889		Product Using Inj 2	unsigned character	REC 7	022
10890		Product Using Inj 3	unsigned character	REC 7	025
10891		Product Using Inj 4	unsigned character	REC 7	028
10892		Product Using Inj 5	unsigned character	REC 7	031
10893		Product Using Inj 6	unsigned character	REC 7	034
10894		Product Using Inj 7	unsigned character	REC 7	037
10895		Product Using Inj 8	unsigned character	REC 7	040
10896		Product Using Inj 9	unsigned character	REC 7	043
10897		Product Using Inj 10	unsigned character	REC 7	046
10898		Product Using Inj 11	unsigned character	REC 7	049
10899		Product Using Inj 12	unsigned character	REC 7	052
10900		Product Using Inj 13	unsigned character	REC 7	055
10901		Product Using Inj 14	unsigned character	REC 7	058
10902		Product Using Inj 15	unsigned character	REC 7	061
10903		Product Using Inj 16	unsigned character	REC 7	064
10904		Product Using Inj 17	unsigned character	REC 7	067
10905		Product Using Inj 18	unsigned character	REC 7	070
10906		Product Using Inj 19	unsigned character	REC 7	073
10907		Product Using Inj 20	unsigned character	REC 7	076
10908		Product Using Inj 21	unsigned character	REC 7	079
10909		Product Using Inj 22	unsigned character	REC 7	082
10910		Product Using Inj 23	unsigned character	REC 7	085
10911		Product Using Inj 24	unsigned character	REC 7	088

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
10912		Clean Line Deduct	unsigned character	REC 7	016
10913		Clean Line Product	unsigned character	REC 7	089
10914		Ratio/Sequential Delivery Mode	unsigned character	REC 7	090
10944	10945	Add Injector 9 Rate	IEEE single precision float	REC 7	042
10946	10947	Add Injector 10 Rate	IEEE single precision float	REC 7	045
10948	10949	Add Injector 11 Rate	IEEE single precision float	REC 7	048
10950	10951	Add Injector 12 Rate	IEEE single precision float	REC 7	051
10952	10953	Add Injector 13 Rate	IEEE single precision float	REC 7	054
10954	10955	Add Injector 14 Rate	IEEE single precision float	REC 7	057
10956	10957	Add Injector 15 Rate	IEEE single precision float	REC 7	060
10958	10959	Add Injector 16 Rate	IEEE single precision float	REC 7	063
10960	10961	Add Injector 17 Rate	IEEE single precision float	REC 7	066
10962	10963	Add Injector 18 Rate	IEEE single precision float	REC 7	069
10964	10965	Add Injector 19 Rate	IEEE single precision float	REC 7	072
10966	10967	Add Injector 20 Rate	IEEE single precision float	REC 7	075
10968	10969	Add Injector 21 Rate	IEEE single precision float	REC 7	078
10970	10971	Add Injector 22 Rate	IEEE single precision float	REC 7	081
10972	10973	Add Injector 23 Rate	IEEE single precision float	REC 7	084
10974	10975	Add Injector 24 Rate	IEEE single precision float	REC 7	087
10976	10977	1st Percentage	IEEE single precision float	REC 7	005
10978	10979	2nd Percentage	IEEE single precision float	REC 7	007
10980	10981	3rd Percentage	IEEE single precision float	REC 7	009
10982	10983	4th Percentage	IEEE single precision float	REC 7	011
10984	10985	5th Percentage	IEEE single precision float	REC 7	013
10986	10987	6th Percentage	IEEE single precision float	REC 7	015
11008	11015	Recipe Name	Text (char[16])	REC 8	002
11072	11073	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 8	017
11074	11075	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 8	020
11076	11077	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 8	023
11078	11079	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 8	026
11080	11081	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 8	029
11082	11083	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 8	032
11084	11085	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 8	035
11086	11087	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 8	038
11088	11089	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 8	041
11090	11091	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 8	044

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11092	11093	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 8	047
11094	11095	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 8	050
11096	11097	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 8	053
11098	11099	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 8	056
11100	11101	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 8	059
11102	11103	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 8	062
11104	11105	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 8	065
11106	11107	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 8	068
11108	11109	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 8	071
11110	11111	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 8	074
11112	11113	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 8	077
11114	11115	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 8	080
11116	11117	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 8	083
11118	11119	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 8	086
11120	11121	Add Injector 1 Rate	IEEE single precision float	REC 8	018
11122	11123	Add Injector 2 Rate	IEEE single precision float	REC 8	021
11124	11125	Add Injector 3 Rate	IEEE single precision float	REC 8	024
11126	11127	Add Injector 4 Rate	IEEE single precision float	REC 8	027
11128	11129	Add Injector 5 Rate	IEEE single precision float	REC 8	030
11130	11131	Add Injector 6 Rate	IEEE single precision float	REC 8	033
11132	11133	Add Injector 7 Rate	IEEE single precision float	REC 8	036
11134	11135	Add Injector 8 Rate	IEEE single precision float	REC 8	039
11136		Recipe Used	unsigned character	REC 8	001
11137		HM Class Product	unsigned character	REC 8	003
11138		1 <sup>st</sup> Delivered	unsigned character	REC 8	004
11139		2 <sup>nd</sup> Delivered	unsigned character	REC 8	006
11140		3 <sup>rd</sup> Delivered	unsigned character	REC 8	008
11141		4 <sup>th</sup> Delivered	unsigned character	REC 8	010
11142		5 <sup>th</sup> Delivered	unsigned character	REC 8	012
11143		6 <sup>th</sup> Delivered	unsigned character	REC 8	014
11144		Product Using Inj 1	unsigned character	REC 8	019
11145		Product Using Inj 2	unsigned character	REC 8	022
11146		Product Using Inj 3	unsigned character	REC 8	025
11147		Product Using Inj 4	unsigned character	REC 8	028
11148		Product Using Inj 5	unsigned character	REC 8	031
11149		Product Using Inj 6	unsigned character	REC 8	034

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11150		Product Using Inj 7	unsigned character	REC 8	037
11151		Product Using Inj 8	unsigned character	REC 8	040
11152		Product Using Inj 9	unsigned character	REC 8	043
11153		Product Using Inj 10	unsigned character	REC 8	046
11154		Product Using Inj 11	unsigned character	REC 8	049
11155		Product Using Inj 12	unsigned character	REC 8	052
11156		Product Using Inj 13	unsigned character	REC 8	055
11157		Product Using Inj 14	unsigned character	REC 8	058
11158		Product Using Inj 15	unsigned character	REC 8	061
11159		Product Using Inj 16	unsigned character	REC 8	064
11160		Product Using Inj 17	unsigned character	REC 8	067
11161		Product Using Inj 18	unsigned character	REC 8	070
11162		Product Using Inj 19	unsigned character	REC 8	073
11163		Product Using Inj 20	unsigned character	REC 8	076
11164		Product Using Inj 21	unsigned character	REC 8	079
11165		Product Using Inj 22	unsigned character	REC 8	082
11166		Product Using Inj 23	unsigned character	REC 8	085
11167		Product Using Inj 24	unsigned character	REC 8	088
11168		Clean Line Deduct	unsigned character	REC 8	016
11169		Clean Line Product	unsigned character	REC 8	089
11170		Ratio/Sequential Delivery Mode	unsigned character	REC 8	090
11200	11201	Add Injector 9 Rate	IEEE single precision float	REC 8	042
11202	11203	Add Injector 10 Rate	IEEE single precision float	REC 8	045
11204	11205	Add Injector 11 Rate	IEEE single precision float	REC 8	048
11206	11207	Add Injector 12 Rate	IEEE single precision float	REC 8	051
11208	11209	Add Injector 13 Rate	IEEE single precision float	REC 8	054
11210	11211	Add Injector 14 Rate	IEEE single precision float	REC 8	057
11212	11213	Add Injector 15 Rate	IEEE single precision float	REC 8	060
11214	11215	Add Injector 16 Rate	IEEE single precision float	REC 8	063
11216	11217	Add Injector 17 Rate	IEEE single precision float	REC 8	066
11218	11219	Add Injector 18 Rate	IEEE single precision float	REC 8	069
11220	11221	Add Injector 19 Rate	IEEE single precision float	REC 8	072
11222	11223	Add Injector 20 Rate	IEEE single precision float	REC 8	075
11224	11225	Add Injector 21 Rate	IEEE single precision float	REC 8	078
11226	11227	Add Injector 22 Rate	IEEE single precision float	REC 8	081
11228	11229	Add Injector 23 Rate	IEEE single precision float	REC 8	084

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11230	11231	Add Injector 24 Rate	IEEE single precision float	REC 8	087
11232	11233	1 <sup>st</sup> Percentage	IEEE single precision float	REC 8	005
11234	11235	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 8	007
11236	11237	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 8	009
11238	11239	4 <sup>th</sup> Percentage	IEEE single precision float	REC 8	011
11240	11241	5 <sup>th</sup> Percentage	IEEE single precision float	REC 8	013
11242	11243	6 <sup>th</sup> Percentage	IEEE single precision float	REC 8	015
11264	11271	Recipe Name	Text (char[16])	REC 9	002
11328	11329	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 9	017
11330	11331	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 9	020
11332	11333	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 9	023
11334	11335	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 9	026
11336	11337	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 9	029
11338	11339	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 9	032
11340	11341	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 9	035
11342	11343	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 9	038
11344	11345	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 9	041
11346	11347	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 9	044
11348	11349	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 9	047
11350	11351	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 9	050
11352	11353	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 9	053
11354	11355	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 9	056
11356	11357	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 9	059
11358	11359	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 9	062
11360	11361	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 9	065
11362	11363	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 9	068
11364	11365	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 9	071
11366	11367	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 9	074
11368	11369	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 9	077
11370	11371	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 9	080
11372	11373	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 9	083
11374	11375	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 9	086
11376	11377	Add Injector 1 Rate	IEEE single precision float	REC 9	018
11378	11379	Add Injector 2 Rate	IEEE single precision float	REC 9	021
11380	11381	Add Injector 3 Rate	IEEE single precision float	REC 9	024
11382	11383	Add Injector 4 Rate	IEEE single precision float	REC 9	027



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11384	11385	Add Injector 5 Rate	IEEE single precision float	REC 9	030
11386	11387	Add Injector 6 Rate	IEEE single precision float	REC 9	033
11388	11389	Add Injector 7 Rate	IEEE single precision float	REC 9	036
11390	11391	Add Injector 8 Rate	IEEE single precision float	REC 9	039
11392		Recipe Used	unsigned character	REC 9	001
11393		HM Class Product	unsigned character	REC 9	003
11394		1 <sup>st</sup> Delivered	unsigned character	REC 9	004
11395		2 <sup>nd</sup> Delivered	unsigned character	REC 9	006
11396		3 <sup>rd</sup> Delivered	unsigned character	REC 9	008
11397		4 <sup>th</sup> Delivered	unsigned character	REC 9	010
11398		5 <sup>th</sup> Delivered	unsigned character	REC 9	012
11399		6 <sup>th</sup> Delivered	unsigned character	REC 9	014
11400		Product Using Inj 1	unsigned character	REC 9	019
11401		Product Using Inj 2	unsigned character	REC 9	022
11402		Product Using Inj 3	unsigned character	REC 9	025
11403		Product Using Inj 4	unsigned character	REC 9	028
11404		Product Using Inj 5	unsigned character	REC 9	031
11405		Product Using Inj 6	unsigned character	REC 9	034
11406		Product Using Inj 7	unsigned character	REC 9	037
11407		Product Using Inj 8	unsigned character	REC 9	040
11408		Product Using Inj 9	unsigned character	REC 9	043
11409		Product Using Inj 10	unsigned character	REC 9	046
11410		Product Using Inj 11	unsigned character	REC 9	049
11411		Product Using Inj 12	unsigned character	REC 9	052
11412		Product Using Inj 13	unsigned character	REC 9	055
11413		Product Using Inj 14	unsigned character	REC 9	058
11414		Product Using Inj 15	unsigned character	REC 9	061
11415		Product Using Inj 16	unsigned character	REC 9	064
11416		Product Using Inj 17	unsigned character	REC 9	067
11417		Product Using Inj 18	unsigned character	REC 9	070
11418		Product Using Inj 19	unsigned character	REC 9	073
11419		Product Using Inj 20	unsigned character	REC 9	076
11420		Product Using Inj 21	unsigned character	REC 9	079
11421		Product Using Inj 22	unsigned character	REC 9	082
11422		Product Using Inj 23	unsigned character	REC 9	085

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11423		Product Using Inj 24	unsigned character	REC 9	088
11424		Clean Line Deduct	unsigned character	REC 9	016
11425		Clean Line Product	unsigned character	REC 9	089
11426		Ratio/Sequential Delivery Mode	unsigned character	REC 9	090
11456	11457	Add Injector 9 Rate	IEEE single precision float	REC 9	042
11458	11459	Add Injector 10 Rate	IEEE single precision float	REC 9	045
11460	11461	Add Injector 11 Rate	IEEE single precision float	REC 9	048
11462	11463	Add Injector 12 Rate	IEEE single precision float	REC 9	051
11464	11465	Add Injector 13 Rate	IEEE single precision float	REC 9	054
11466	11467	Add Injector 14 Rate	IEEE single precision float	REC 9	057
11468	11469	Add Injector 15 Rate	IEEE single precision float	REC 9	060
11470	11471	Add Injector 16 Rate	IEEE single precision float	REC 9	063
11472	11473	Add Injector 17 Rate	IEEE single precision float	REC 9	066
11474	11475	Add Injector 18 Rate	IEEE single precision float	REC 9	069
11476	11477	Add Injector 19 Rate	IEEE single precision float	REC 9	072
11478	11479	Add Injector 20 Rate	IEEE single precision float	REC 9	075
11480	11481	Add Injector 21 Rate	IEEE single precision float	REC 9	078
11482	11483	Add Injector 22 Rate	IEEE single precision float	REC 9	081
11484	11485	Add Injector 23 Rate	IEEE single precision float	REC 9	084
11486	11487	Add Injector 24 Rate	IEEE single precision float	REC 9	087
11488	11489	1st Percentage	IEEE single precision float	REC 9	005
11490	11491	2nd Percentage	IEEE single precision float	REC 9	007
11492	11493	3rd Percentage	IEEE single precision float	REC 9	009
11494	11495	4th Percentage	IEEE single precision float	REC 9	011
11496	11497	5th Percentage	IEEE single precision float	REC 9	013
11498	11499	6th Percentage	IEEE single precision float	REC 9	015
11520	11527	Recipe Name	Text (char[16])	REC 10	002
11584	11585	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 10	017
11586	11587	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 10	020
11588	11589	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 10	023
11590	11591	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 10	026
11592	11593	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 10	029
11594	11595	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 10	032
11596	11597	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 10	035
11598	11599	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 10	038
11600	11601	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 10	041

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11602	11603	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 10	044
11604	11605	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 10	047
11606	11607	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 10	050
11608	11609	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 10	053
11610	11611	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 10	056
11612	11613	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 10	059
11614	11615	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 10	062
11616	11617	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 10	065
11618	11619	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 10	068
11620	11621	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 10	071
11622	11623	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 10	074
11624	11625	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 10	077
11626	11627	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 10	080
11628	11629	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 10	083
11630	11631	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 10	086
11632	11633	Add Injector 1 Rate	IEEE single precision float	REC 10	018
11634	11635	Add Injector 2 Rate	IEEE single precision float	REC 10	021
11636	11637	Add Injector 3 Rate	IEEE single precision float	REC 10	024
11638	11639	Add Injector 4 Rate	IEEE single precision float	REC 10	027
11640	11641	Add Injector 5 Rate	IEEE single precision float	REC 10	030
11642	11643	Add Injector 6 Rate	IEEE single precision float	REC 10	033
11644	11645	Add Injector 7 Rate	IEEE single precision float	REC 10	036
11646	11647	Add Injector 8 Rate	IEEE single precision float	REC 10	039
11648		Recipe Used	unsigned character	REC 10	001
11649		HM Class Product	unsigned character	REC 10	003
11650		1 <sup>st</sup> Delivered	unsigned character	REC 10	004
11651		2 <sup>nd</sup> Delivered	unsigned character	REC 10	006
11652		3 <sup>rd</sup> Delivered	unsigned character	REC 10	008
11653		4 <sup>th</sup> Delivered	unsigned character	REC 10	010
11654		5 <sup>th</sup> Delivered	unsigned character	REC 10	012
11655		6 <sup>th</sup> Delivered	unsigned character	REC 10	014
11656		Product Using Inj 1	unsigned character	REC 10	019
11657		Product Using Inj 2	unsigned character	REC 10	022
11658		Product Using Inj 3	unsigned character	REC 10	025
11659		Product Using Inj 4	unsigned character	REC 10	028
11660		Product Using Inj 5	unsigned character	REC 10	031

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11661		Product Using Inj 6	unsigned character	REC 10	034
11662		Product Using Inj 7	unsigned character	REC 10	037
11663		Product Using Inj 8	unsigned character	REC 10	040
11664		Product Using Inj 9	unsigned character	REC 10	043
11665		Product Using Inj 10	unsigned character	REC 10	046
11666		Product Using Inj 11	unsigned character	REC 10	049
11667		Product Using Inj 12	unsigned character	REC 10	052
11668		Product Using Inj 13	unsigned character	REC 10	055
11669		Product Using Inj 14	unsigned character	REC 10	058
11670		Product Using Inj 15	unsigned character	REC 10	061
11671		Product Using Inj 16	unsigned character	REC 10	064
11672		Product Using Inj 17	unsigned character	REC 10	067
11673		Product Using Inj 18	unsigned character	REC 10	070
11674		Product Using Inj 19	unsigned character	REC 10	073
11675		Product Using Inj 20	unsigned character	REC 10	076
11676		Product Using Inj 21	unsigned character	REC 10	079
11677		Product Using Inj 22	unsigned character	REC 10	082
11678		Product Using Inj 23	unsigned character	REC 10	085
11679		Product Using Inj 24	unsigned character	REC 10	088
11680		Clean Line Deduct	unsigned character	REC 10	016
11681		Clean Line Product	unsigned character	REC 10	089
11682		Ratio/Sequential Delivery Mode	unsigned character	REC 10	090
11712	11713	Add Injector 9 Rate	IEEE single precision float	REC 10	042
11714	11715	Add Injector 10 Rate	IEEE single precision float	REC 10	045
11716	11717	Add Injector 11 Rate	IEEE single precision float	REC 10	048
11718	11719	Add Injector 12 Rate	IEEE single precision float	REC 10	051
11720	11721	Add Injector 13 Rate	IEEE single precision float	REC 10	054
11722	11723	Add Injector 14 Rate	IEEE single precision float	REC 10	057
11724	11725	Add Injector 15 Rate	IEEE single precision float	REC 10	060
11726	11727	Add Injector 16 Rate	IEEE single precision float	REC 10	063
11728	11729	Add Injector 17 Rate	IEEE single precision float	REC 10	066
11730	11731	Add Injector 18 Rate	IEEE single precision float	REC 10	069
11732	11733	Add Injector 19 Rate	IEEE single precision float	REC 10	072
11734	11735	Add Injector 20 Rate	IEEE single precision float	REC 10	075
11736	11737	Add Injector 21 Rate	IEEE single precision float	REC 10	078
11738	11739	Add Injector 22 Rate	IEEE single precision float	REC 10	081

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11740	11741	Add Injector 23 Rate	IEEE single precision float	REC 10	084
11742	11743	Add Injector 24 Rate	IEEE single precision float	REC 10	087
11744	11745	1 <sup>st</sup> Percentage	IEEE single precision float	REC 10	005
11746	11747	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 10	007
11748	11749	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 10	009
11750	11751	4 <sup>th</sup> Percentage	IEEE single precision float	REC 10	011
11752	11753	5 <sup>th</sup> Percentage	IEEE single precision float	REC 10	013
11754	11755	6 <sup>th</sup> Percentage	IEEE single precision float	REC 10	015
11776	11783	Recipe Name	Text (char[16])	REC 11	002
11840	11841	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 11	017
11842	11843	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 11	020
11844	11845	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 11	023
11846	11847	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 11	026
11848	11849	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 11	029
11850	11851	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 11	032
11852	11853	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 11	035
11854	11855	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 11	038
11856	11857	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 11	041
11858	11859	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 11	044
11860	11861	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 11	047
11862	11863	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 11	050
11864	11865	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 11	053
11866	11867	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 11	056
11868	11869	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 11	059
11870	11871	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 11	062
11872	11873	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 11	065
11874	11875	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 11	068
11876	11877	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 11	071
11878	11879	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 11	074
11880	11881	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 11	077
11882	11883	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 11	080
11884	11885	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 11	083
11886	11887	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 11	086
11888	11889	Add Injector 1 Rate	IEEE single precision float	REC 11	018
11890	11891	Add Injector 2 Rate	IEEE single precision float	REC 11	021
11892	11893	Add Injector 3 Rate	IEEE single precision float	REC 11	024

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11894	11895	Add Injector 4 Rate	IEEE single precision float	REC 11	027
11896	11897	Add Injector 5 Rate	IEEE single precision float	REC 11	030
11898	11899	Add Injector 6 Rate	IEEE single precision float	REC 11	033
11900	11901	Add Injector 7 Rate	IEEE single precision float	REC 11	036
11902	11903	Add Injector 8 Rate	IEEE single precision float	REC 11	039
11904		Recipe Used	unsigned character	REC 11	001
11905		HM Class Product	unsigned character	REC 11	003
11906		1 <sup>st</sup> Delivered	unsigned character	REC 11	004
11907		2 <sup>nd</sup> Delivered	unsigned character	REC 11	006
11908		3 <sup>rd</sup> Delivered	unsigned character	REC 11	008
11909		4 <sup>th</sup> Delivered	unsigned character	REC 11	010
11910		5 <sup>th</sup> Delivered	unsigned character	REC 11	012
11911		6 <sup>th</sup> Delivered	unsigned character	REC 11	014
11912		Product Using Inj 1	unsigned character	REC 11	019
11913		Product Using Inj 2	unsigned character	REC 11	022
11914		Product Using Inj 3	unsigned character	REC 11	025
11915		Product Using Inj 4	unsigned character	REC 11	028
11916		Product Using Inj 5	unsigned character	REC 11	031
11917		Product Using Inj 6	unsigned character	REC 11	034
11918		Product Using Inj 7	unsigned character	REC 11	037
11919		Product Using Inj 8	unsigned character	REC 11	040
11920		Product Using Inj 9	unsigned character	REC 11	043
11921		Product Using Inj 10	unsigned character	REC 11	046
11922		Product Using Inj 11	unsigned character	REC 11	049
11923		Product Using Inj 12	unsigned character	REC 11	052
11924		Product Using Inj 13	unsigned character	REC 11	055
11925		Product Using Inj 14	unsigned character	REC 11	058
11926		Product Using Inj 15	unsigned character	REC 11	061
11927		Product Using Inj 16	unsigned character	REC 11	064
11928		Product Using Inj 17	unsigned character	REC 11	067
11929		Product Using Inj 18	unsigned character	REC 11	070
11930		Product Using Inj 19	unsigned character	REC 11	073
11931		Product Using Inj 20	unsigned character	REC 11	076
11932		Product Using Inj 21	unsigned character	REC 11	079
11933		Product Using Inj 22	unsigned character	REC 11	082

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
11934		Product Using Inj 23	unsigned character	REC 11	085
11935		Product Using Inj 24	unsigned character	REC 11	088
11936		Clean Line Deduct	unsigned character	REC 11	016
11937		Clean Line Product	unsigned character	REC 11	089
11938		Ratio/Sequential Delivery Mode	unsigned character	REC 11	090
11968	11969	Add Injector 9 Rate	IEEE single precision float	REC 11	042
11970	11971	Add Injector 10 Rate	IEEE single precision float	REC 11	045
11972	11973	Add Injector 11 Rate	IEEE single precision float	REC 11	048
11974	11975	Add Injector 12 Rate	IEEE single precision float	REC 11	051
11976	11977	Add Injector 13 Rate	IEEE single precision float	REC 11	054
11978	11979	Add Injector 14 Rate	IEEE single precision float	REC 11	057
11980	11981	Add Injector 15 Rate	IEEE single precision float	REC 11	060
11982	11983	Add Injector 16 Rate	IEEE single precision float	REC 11	063
11984	11985	Add Injector 17 Rate	IEEE single precision float	REC 11	066
11986	11987	Add Injector 18 Rate	IEEE single precision float	REC 11	069
11988	11989	Add Injector 19 Rate	IEEE single precision float	REC 11	072
11990	11991	Add Injector 20 Rate	IEEE single precision float	REC 11	075
11992	11993	Add Injector 21 Rate	IEEE single precision float	REC 11	078
11994	11995	Add Injector 22 Rate	IEEE single precision float	REC 11	081
11996	11997	Add Injector 23 Rate	IEEE single precision float	REC 11	084
11998	11999	Add Injector 24 Rate	IEEE single precision float	REC 11	087
12000	12001	1st Percentage	IEEE single precision float	REC 11	005
12002	12003	2nd Percentage	IEEE single precision float	REC 11	007
12004	12005	3rd Percentage	IEEE single precision float	REC 11	009
12006	12007	4th Percentage	IEEE single precision float	REC 11	011
12008	12009	5th Percentage	IEEE single precision float	REC 11	013
12010	12011	6th Percentage	IEEE single precision float	REC 11	015
12032	12039	Recipe Name	Text (char[16])	REC 12	002
12096	12097	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 12	017
12098	12099	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 12	020
12100	12101	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 12	023
12102	12103	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 12	026
12104	12105	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 12	029
12106	12107	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 12	032
12108	12109	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 12	035
12110	12111	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 12	038

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12112	12113	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 12	041
12114	12115	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 12	044
12116	12117	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 12	047
12118	12119	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 12	050
12120	12121	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 12	053
12122	12123	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 12	056
12124	12125	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 12	059
12126	12127	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 12	062
12128	12129	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 12	065
12130	12131	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 12	068
12132	12133	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 12	071
12134	12135	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 12	074
12136	12137	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 12	077
12138	12139	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 12	080
12140	12141	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 12	083
12142	12143	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 12	086
12144	12145	Add Injector 1 Rate	IEEE single precision float	REC 12	018
12146	12147	Add Injector 2 Rate	IEEE single precision float	REC 12	021
12148	12149	Add Injector 3 Rate	IEEE single precision float	REC 12	024
12150	12151	Add Injector 4 Rate	IEEE single precision float	REC 12	027
12152	12153	Add Injector 5 Rate	IEEE single precision float	REC 12	030
12154	12155	Add Injector 6 Rate	IEEE single precision float	REC 12	033
12156	12157	Add Injector 7 Rate	IEEE single precision float	REC 12	036
12158	12159	Add Injector 8 Rate	IEEE single precision float	REC 12	039
12160		Recipe Used	unsigned character	REC 12	001
12161		HM Class Product	unsigned character	REC 12	003
12162		1 <sup>st</sup> Delivered	unsigned character	REC 12	004
12163		2 <sup>nd</sup> Delivered	unsigned character	REC 12	006
12164		3 <sup>rd</sup> Delivered	unsigned character	REC 12	008
12165		4 <sup>th</sup> Delivered	unsigned character	REC 12	010
12166		5 <sup>th</sup> Delivered	unsigned character	REC 12	012
12167		6 <sup>th</sup> Delivered	unsigned character	REC 12	014
12168		Product Using Inj 1	unsigned character	REC 12	019
12169		Product Using Inj 2	unsigned character	REC 12	022
12170		Product Using Inj 3	unsigned character	REC 12	025
12171		Product Using Inj 4	unsigned character	REC 12	028



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12172		Product Using Inj 5	unsigned character	REC 12	031
12173		Product Using Inj 6	unsigned character	REC 12	034
12174		Product Using Inj 7	unsigned character	REC 12	037
12175		Product Using Inj 8	unsigned character	REC 12	040
12176		Product Using Inj 9	unsigned character	REC 12	043
12177		Product Using Inj 10	unsigned character	REC 12	046
12178		Product Using Inj 11	unsigned character	REC 12	049
12179		Product Using Inj 12	unsigned character	REC 12	052
12180		Product Using Inj 13	unsigned character	REC 12	055
12181		Product Using Inj 14	unsigned character	REC 12	058
12182		Product Using Inj 15	unsigned character	REC 12	061
12183		Product Using Inj 16	unsigned character	REC 12	064
12184		Product Using Inj 17	unsigned character	REC 12	067
12185		Product Using Inj 18	unsigned character	REC 12	070
12186		Product Using Inj 19	unsigned character	REC 12	073
12187		Product Using Inj 20	unsigned character	REC 12	076
12188		Product Using Inj 21	unsigned character	REC 12	079
12189		Product Using Inj 22	unsigned character	REC 12	082
12190		Product Using Inj 23	unsigned character	REC 12	085
12191		Product Using Inj 24	unsigned character	REC 12	088
12192		Clean Line Deduct	unsigned character	REC 12	016
12193		Clean Line Product	unsigned character	REC 12	089
12194		Ration/Sequential Delivery Mode	unsigned character	REC 12	090
12224	12225	Add Injector 9 Rate	IEEE single precision float	REC 12	042
12226	12227	Add Injector 10 Rate	IEEE single precision float	REC 12	045
12228	12229	Add Injector 11 Rate	IEEE single precision float	REC 12	048
12230	12231	Add Injector 12 Rate	IEEE single precision float	REC 12	051
12232	12233	Add Injector 13 Rate	IEEE single precision float	REC 12	054
12234	12235	Add Injector 14 Rate	IEEE single precision float	REC 12	057
12236	12237	Add Injector 15 Rate	IEEE single precision float	REC 12	060
12238	12239	Add Injector 16 Rate	IEEE single precision float	REC 12	063
12240	12241	Add Injector 17 Rate	IEEE single precision float	REC 12	066
12242	12243	Add Injector 18 Rate	IEEE single precision float	REC 12	069
12244	12245	Add Injector 19 Rate	IEEE single precision float	REC 12	072
12246	12247	Add Injector 20 Rate	IEEE single precision float	REC 12	075
12248	12249	Add Injector 21 Rate	IEEE single precision float	REC 12	078

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12250	12251	Add Injector 22 Rate	IEEE single precision float	REC 12	081
12252	12253	Add Injector 23 Rate	IEEE single precision float	REC 12	084
12254	12255	Add Injector 24 Rate	IEEE single precision float	REC 12	087
12256	12257	1 <sup>st</sup> Percentage	IEEE single precision float	REC 12	005
12258	12259	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 12	007
12260	12261	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 12	009
12262	12263	4 <sup>th</sup> Percentage	IEEE single precision float	REC 12	011
12264	12265	5 <sup>th</sup> Percentage	IEEE single precision float	REC 12	013
12266	12267	6 <sup>th</sup> Percentage	IEEE single precision float	REC 12	015
12288	12295	Recipe Name	Text (char[16])	REC 13	002
12352	12353	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 13	017
12354	12355	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 13	020
12356	12357	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 13	023
12358	12359	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 13	026
12360	12361	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 13	029
12362	12363	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 13	032
12364	12365	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 13	035
12366	12367	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 13	038
12368	12369	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 13	041
12370	12371	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 13	044
12372	12373	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 13	047
12374	12375	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 13	050
12376	12377	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 13	053
12378	12379	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 13	056
12380	12381	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 13	059
12382	12383	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 13	062
12384	12385	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 13	065
12386	12387	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 13	068
12388	12389	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 13	071
12390	12391	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 13	074
12392	12393	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 13	077
12394	12395	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 13	080
12396	12397	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 13	083
12398	12399	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 13	086
12400	12401	Add Injector 1 Rate	IEEE single precision float	REC 13	018
12402	12403	Add Injector 2 Rate	IEEE single precision float	REC 13	021

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12404	12405	Add Injector 3 Rate	IEEE single precision float	REC 13	024
12406	12407	Add Injector 4 Rate	IEEE single precision float	REC 13	027
12408	12409	Add Injector 5 Rate	IEEE single precision float	REC 13	030
12410	12411	Add Injector 6 Rate	IEEE single precision float	REC 13	033
12412	12413	Add Injector 7 Rate	IEEE single precision float	REC 13	036
12414	12415	Add Injector 8 Rate	IEEE single precision float	REC 13	039
12416		Recipe Used	unsigned character	REC 13	001
12417		HM Class Product	unsigned character	REC 13	003
12418		1st Delivered	unsigned character	REC 13	004
12419		2nd Delivered	unsigned character	REC 13	006
12420		3rd Delivered	unsigned character	REC 13	008
12421		4th Delivered	unsigned character	REC 13	010
12422		5th Delivered	unsigned character	REC 13	012
12423		6th Delivered	unsigned character	REC 13	014
12424		Product Using Inj 1	unsigned character	REC 13	019
12425		Product Using Inj 2	unsigned character	REC 13	022
12426		Product Using Inj 3	unsigned character	REC 13	025
12427		Product Using Inj 4	unsigned character	REC 13	028
12428		Product Using Inj 5	unsigned character	REC 13	031
12429		Product Using Inj 6	unsigned character	REC 13	034
12430		Product Using Inj 7	unsigned character	REC 13	037
12431		Product Using Inj 8	unsigned character	REC 13	040
12432		Product Using Inj 9	unsigned character	REC 13	043
12433		Product Using Inj 10	unsigned character	REC 13	046
12434		Product Using Inj 11	unsigned character	REC 13	049
12435		Product Using Inj 12	unsigned character	REC 13	052
12436		Product Using Inj 13	unsigned character	REC 13	055
12437		Product Using Inj 14	unsigned character	REC 13	058
12438		Product Using Inj 15	unsigned character	REC 13	061
12439		Product Using Inj 16	unsigned character	REC 13	064
12440		Product Using Inj 17	unsigned character	REC 13	067
12441		Product Using Inj 18	unsigned character	REC 13	070
12442		Product Using Inj 19	unsigned character	REC 13	073
12443		Product Using Inj 20	unsigned character	REC 13	076
12444		Product Using Inj 21	unsigned character	REC 13	079

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12445		Product Using Inj 22	unsigned character	REC 13	082
12446		Product Using Inj 23	unsigned character	REC 13	085
12447		Product Using Inj 24	unsigned character	REC 13	088
12448		Clean Line Deduct	unsigned character	REC 13	016
12449		Clean Line Product	unsigned character	REC 13	089
12450		Ratio/Sequential Delivery Mode	unsigned character	REC 13	090
12480	12481	Add Injector 9 Rate	IEEE single precision float	REC 13	042
12482	12483	Add Injector 10 Rate	IEEE single precision float	REC 13	045
12484	12485	Add Injector 11 Rate	IEEE single precision float	REC 13	048
12486	12487	Add Injector 12 Rate	IEEE single precision float	REC 13	051
12488	12489	Add Injector 13 Rate	IEEE single precision float	REC 13	054
12490	12491	Add Injector 14 Rate	IEEE single precision float	REC 13	057
12492	12493	Add Injector 15 Rate	IEEE single precision float	REC 13	060
12494	12495	Add Injector 16 Rate	IEEE single precision float	REC 13	063
12496	12497	Add Injector 17 Rate	IEEE single precision float	REC 13	066
12498	12499	Add Injector 18 Rate	IEEE single precision float	REC 13	069
12500	12501	Add Injector 19 Rate	IEEE single precision float	REC 13	072
12502	12503	Add Injector 20 Rate	IEEE single precision float	REC 13	075
12504	12505	Add Injector 21 Rate	IEEE single precision float	REC 13	078
12506	12507	Add Injector 22 Rate	IEEE single precision float	REC 13	081
12508	12509	Add Injector 23 Rate	IEEE single precision float	REC 13	084
12510	12511	Add Injector 24 Rate	IEEE single precision float	REC 13	087
12512	12513	1 <sup>st</sup> Percentage	IEEE single precision float	REC 13	005
12514	12515	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 13	007
12516	12517	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 13	009
12518	12519	4 <sup>th</sup> Percentage	IEEE single precision float	REC 13	011
12520	12521	5 <sup>th</sup> Percentage	IEEE single precision float	REC 13	013
12522	12523	6 <sup>th</sup> Percentage	IEEE single precision float	REC 13	015
12544	12551	Recipe Name	Text (char[16])	REC 14	002
12608	12609	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 14	017
12610	12611	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 14	020
12612	12613	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 14	023
12614	12615	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 14	026
12616	12617	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 14	029
12618	12619	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 14	032
12620	12621	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 14	035

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12622	12623	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 14	038
12624	12625	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 14	041
12626	12627	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 14	044
12628	12629	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 14	047
12630	12631	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 14	050
12632	12633	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 14	053
12634	12635	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 14	056
12636	12637	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 14	059
12638	12639	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 14	062
12640	12641	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 14	065
12642	12643	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 14	068
12644	12645	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 14	071
12646	12647	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 14	074
12648	12649	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 14	077
12650	12651	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 14	080
12652	12653	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 14	083
12654	12655	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 14	086
12656	12657	Add Injector 1 Rate	IEEE single precision float	REC 14	018
12658	12659	Add Injector 2 Rate	IEEE single precision float	REC 14	021
12660	12661	Add Injector 3 Rate	IEEE single precision float	REC 14	024
12662	12663	Add Injector 4 Rate	IEEE single precision float	REC 14	027
12664	12665	Add Injector 5 Rate	IEEE single precision float	REC 14	030
12666	12667	Add Injector 6 Rate	IEEE single precision float	REC 14	033
12668	12669	Add Injector 7 Rate	IEEE single precision float	REC 14	036
12670	12671	Add Injector 8 Rate	IEEE single precision float	REC 14	039
12672		Recipe Used	unsigned character	REC 14	001
12673		HM Class Product	unsigned character	REC 14	003
12674		1 <sup>st</sup> Delivered	unsigned character	REC 14	004
12675		2 <sup>nd</sup> Delivered	unsigned character	REC 14	006
12676		3 <sup>rd</sup> Delivered	unsigned character	REC 14	008
12677		4 <sup>th</sup> Delivered	unsigned character	REC 14	010
12678		5 <sup>th</sup> Delivered	unsigned character	REC 14	012
12679		6 <sup>th</sup> Delivered	unsigned character	REC 14	014
12680		Product Using Inj 1	unsigned character	REC 14	019
12681		Product Using Inj 2	unsigned character	REC 14	022
12682		Product Using Inj 3	unsigned character	REC 14	025

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12683		Product Using Inj 4	unsigned character	REC 14	028
12684		Product Using Inj 5	unsigned character	REC 14	031
12685		Product Using Inj 6	unsigned character	REC 14	034
12686		Product Using Inj 7	unsigned character	REC 14	037
12687		Product Using Inj 8	unsigned character	REC 14	040
12688		Product Using Inj 9	unsigned character	REC 14	043
12689		Product Using Inj 10	unsigned character	REC 14	046
12690		Product Using Inj 11	unsigned character	REC 14	049
12691		Product Using Inj 12	unsigned character	REC 14	052
12692		Product Using Inj 13	unsigned character	REC 14	055
12693		Product Using Inj 14	unsigned character	REC 14	058
12694		Product Using Inj 15	unsigned character	REC 14	061
12695		Product Using Inj 16	unsigned character	REC 14	064
12696		Product Using Inj 17	unsigned character	REC 14	067
12697		Product Using Inj 18	unsigned character	REC 14	070
12698		Product Using Inj 19	unsigned character	REC 14	073
12699		Product Using Inj 20	unsigned character	REC 14	076
12700		Product Using Inj 21	unsigned character	REC 14	079
12701		Product Using Inj 22	unsigned character	REC 14	082
12702		Product Using Inj 23	unsigned character	REC 14	085
12703		Product Using Inj 24	unsigned character	REC 14	088
12704		Clean Line Deduct	unsigned character	REC 14	016
12705		Clean Line Product	unsigned character	REC 14	089
12706		Ratio/Sequential Delivery mode	unsigned character	REC 14	090
12736	12737	Add Injector 9 Rate	IEEE single precision float	REC 14	042
12738	12739	Add Injector 10 Rate	IEEE single precision float	REC 14	045
12740	12741	Add Injector 11 Rate	IEEE single precision float	REC 14	048
12742	12743	Add Injector 12 Rate	IEEE single precision float	REC 14	051
12744	12745	Add Injector 13 Rate	IEEE single precision float	REC 14	054
12746	12747	Add Injector 14 Rate	IEEE single precision float	REC 14	057
12748	12749	Add Injector 15 Rate	IEEE single precision float	REC 14	060
12750	12751	Add Injector 16 Rate	IEEE single precision float	REC 14	063
12752	12753	Add Injector 17 Rate	IEEE single precision float	REC 14	066
12754	12755	Add Injector 18 Rate	IEEE single precision float	REC 14	069
12756	12757	Add Injector 19 Rate	IEEE single precision float	REC 14	072
12758	12759	Add Injector 20 Rate	IEEE single precision float	REC 14	075

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12760	12761	Add Injector 21 Rate	IEEE single precision float	REC 14	078
12762	12763	Add Injector 22 Rate	IEEE single precision float	REC 14	081
12764	12765	Add Injector 23 Rate	IEEE single precision float	REC 14	084
12766	12767	Add Injector 24 Rate	IEEE single precision float	REC 14	087
12768	12769	1 <sup>st</sup> Percentage	IEEE single precision float	REC 14	005
12770	12771	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 14	007
12772	12773	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 14	009
12774	12775	4 <sup>th</sup> Percentage	IEEE single precision float	REC 14	011
12776	12777	5 <sup>th</sup> Percentage	IEEE single precision float	REC 14	013
12778	12779	6 <sup>th</sup> Percentage	IEEE single precision float	REC 14	015
12800	12807	Recipe Name	Text (char[16])	REC 15	002
12864	12865	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 15	017
12866	12867	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 15	020
12868	12869	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 15	023
12870	12871	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 15	026
12872	12873	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 15	029
12874	12875	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 15	032
12876	12877	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 15	035
12878	12879	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 15	038
12880	12881	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 15	041
12882	12883	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 15	044
12884	12885	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 15	047
12886	12887	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 15	050
12888	12889	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 15	053
12890	12891	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 15	056
12892	12893	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 15	059
12894	12895	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 15	062
12896	12897	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 15	065
12898	12899	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 15	068
12900	12901	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 15	071
12902	12903	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 15	074
12904	12905	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 15	077
12906	12907	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 15	080
12908	12909	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 15	083
12910	12911	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 15	086
12912	12913	Add Injector 1 Rate	IEEE single precision float	REC 15	018

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12914	12915	Add Injector 2 Rate	IEEE single precision float	REC 15	021
12916	12917	Add Injector 3 Rate	IEEE single precision float	REC 15	024
12918	12919	Add Injector 4 Rate	IEEE single precision float	REC 15	027
12920	12921	Add Injector 5 Rate	IEEE single precision float	REC 15	030
12922	12923	Add Injector 6 Rate	IEEE single precision float	REC 15	033
12924	12925	Add Injector 7 Rate	IEEE single precision float	REC 15	036
12926	12927	Add Injector 8 Rate	IEEE single precision float	REC 15	039
12928		Recipe Used	unsigned character	REC 15	001
12929		HM Class Product	unsigned character	REC 15	003
12930		1 <sup>st</sup> Delivered	unsigned character	REC 15	004
12931		2 <sup>nd</sup> Delivered	unsigned character	REC 15	006
12932		3 <sup>rd</sup> Delivered	unsigned character	REC 15	008
12933		4 <sup>th</sup> Delivered	unsigned character	REC 15	010
12934		5 <sup>th</sup> Delivered	unsigned character	REC 15	012
12935		6 <sup>th</sup> Delivered	unsigned character	REC 15	014
12936		Product Using Inj 1	unsigned character	REC 15	019
12937		Product Using Inj 2	unsigned character	REC 15	022
12938		Product Using Inj 3	unsigned character	REC 15	025
12939		Product Using Inj 4	unsigned character	REC 15	028
12940		Product Using Inj 5	unsigned character	REC 15	031
12941		Product Using Inj 6	unsigned character	REC 15	034
12942		Product Using Inj 7	unsigned character	REC 15	037
12943		Product Using Inj 8	unsigned character	REC 15	040
12944		Product Using Inj 9	unsigned character	REC 15	043
12945		Product Using Inj 10	unsigned character	REC 15	046
12946		Product Using Inj 11	unsigned character	REC 15	049
12947		Product Using Inj 12	unsigned character	REC 15	052
12948		Product Using Inj 13	unsigned character	REC 15	055
12949		Product Using Inj 14	unsigned character	REC 15	058
12950		Product Using Inj 15	unsigned character	REC 15	061
12951		Product Using Inj 16	unsigned character	REC 15	064
12952		Product Using Inj 17	unsigned character	REC 15	067
12953		Product Using Inj 18	unsigned character	REC 15	070
12954		Product Using Inj 19	unsigned character	REC 15	073
12955		Product Using Inj 20	unsigned character	REC 15	076



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
12956		Product Using Inj 21	unsigned character	REC 15	079
12957		Product Using Inj 22	unsigned character	REC 15	082
12958		Product Using Inj 23	unsigned character	REC 15	085
12959		Product Using Inj 24	unsigned character	REC 15	088
12960		Clean Line Deduct	unsigned character	REC 15	016
12961		Clean Line Product	unsigned character	REC 15	089
12962		Ratio/Sequential Delivery mode	unsigned character	REC 15	090
12992	12993	Add Injector 9 Rate	IEEE single precision float	REC 15	042
12994	12995	Add Injector 10 Rate	IEEE single precision float	REC 15	045
12996	12997	Add Injector 11 Rate	IEEE single precision float	REC 15	048
12998	12999	Add Injector 12 Rate	IEEE single precision float	REC 15	051
13000	13001	Add Injector 13 Rate	IEEE single precision float	REC 15	054
13002	13003	Add Injector 14 Rate	IEEE single precision float	REC 15	057
13004	13005	Add Injector 15 Rate	IEEE single precision float	REC 15	060
13006	13007	Add Injector 16 Rate	IEEE single precision float	REC 15	063
13008	13009	Add Injector 17 Rate	IEEE single precision float	REC 15	066
13010	13011	Add Injector 18 Rate	IEEE single precision float	REC 15	069
13012	13013	Add Injector 19 Rate	IEEE single precision float	REC 15	072
13014	13015	Add Injector 20 Rate	IEEE single precision float	REC 15	075
13016	13017	Add Injector 21 Rate	IEEE single precision float	REC 15	078
13018	13019	Add Injector 22 Rate	IEEE single precision float	REC 15	081
13020	13021	Add Injector 23 Rate	IEEE single precision float	REC 15	084
13022	13023	Add Injector 24 Rate	IEEE single precision float	REC 15	087
13024	13025	1st Percentage	IEEE single precision float	REC 15	005
13026	13027	2nd Percentage	IEEE single precision float	REC 15	007
13028	13029	3rd Percentage	IEEE single precision float	REC 15	009
13030	13031	4th Percentage	IEEE single precision float	REC 15	011
13032	13033	5th Percentage	IEEE single precision float	REC 15	013
13034	13035	6th Percentage	IEEE single precision float	REC 15	015
13056	13063	Recipe Name	Text (char[16])	REC 16	002
13120	13121	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 16	017
13122	13123	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 16	020
13124	13125	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 16	023
13126	13127	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 16	026
13128	13129	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 16	029
13130	13131	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 16	032

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13132	13133	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 16	035
13134	13135	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 16	038
13136	13137	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 16	041
13138	13139	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 16	044
13140	13141	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 16	047
13142	13143	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 16	050
13144	13145	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 16	053
13146	13147	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 16	056
13148	13149	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 16	059
13150	13151	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 16	062
13152	13153	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 16	065
13154	13155	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 16	068
13156	13157	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 16	071
13158	13159	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 16	074
13160	13161	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 16	077
13162	13163	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 16	080
13164	13165	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 16	083
13166	13167	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 16	086
13168	13169	Add Injector 1 Rate	IEEE single precision float	REC 16	018
13170	13171	Add Injector 2 Rate	IEEE single precision float	REC 16	021
13172	13173	Add Injector 3 Rate	IEEE single precision float	REC 16	024
13174	13175	Add Injector 4 Rate	IEEE single precision float	REC 16	027
13176	13177	Add Injector 5 Rate	IEEE single precision float	REC 16	030
13178	13179	Add Injector 6 Rate	IEEE single precision float	REC 16	033
13180	13181	Add Injector 7 Rate	IEEE single precision float	REC 16	036
13182	13183	Add Injector 8 Rate	IEEE single precision float	REC 16	039
13184		Recipe Used	unsigned character	REC 16	001
13185		HM Class Product	unsigned character	REC 16	003
13186		1 <sup>st</sup> Delivered	unsigned character	REC 16	004
13187		2 <sup>nd</sup> Delivered	unsigned character	REC 16	006
13188		3 <sup>rd</sup> Delivered	unsigned character	REC 16	008
13189		4 <sup>th</sup> Delivered	unsigned character	REC 16	010
13190		5 <sup>th</sup> Delivered	unsigned character	REC 16	012
13191		6 <sup>th</sup> Delivered	unsigned character	REC 16	014
13192		Product Using Inj 1	unsigned character	REC 16	019
13193		Product Using Inj 2	unsigned character	REC 16	022

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13194		Product Using Inj 3	unsigned character	REC 16	025
13195		Product Using Inj 4	unsigned character	REC 16	028
13196		Product Using Inj 5	unsigned character	REC 16	031
13197		Product Using Inj 6	unsigned character	REC 16	034
13198		Product Using Inj 7	unsigned character	REC 16	037
13199		Product Using Inj 8	unsigned character	REC 16	040
13200		Product Using Inj 9	unsigned character	REC 16	043
13201		Product Using Inj 10	unsigned character	REC 16	046
13202		Product Using Inj 11	unsigned character	REC 16	049
13203		Product Using Inj 12	unsigned character	REC 16	052
13204		Product Using Inj 13	unsigned character	REC 16	055
13205		Product Using Inj 14	unsigned character	REC 16	058
13206		Product Using Inj 15	unsigned character	REC 16	061
13207		Product Using Inj 16	unsigned character	REC 16	064
13208		Product Using Inj 17	unsigned character	REC 16	067
13209		Product Using Inj 18	unsigned character	REC 16	070
13210		Product Using Inj 19	unsigned character	REC 16	073
13211		Product Using Inj 20	unsigned character	REC 16	076
13212		Product Using Inj 21	unsigned character	REC 16	079
13213		Product Using Inj 22	unsigned character	REC 16	082
13214		Product Using Inj 23	unsigned character	REC 16	085
13215		Product Using Inj 24	unsigned character	REC 16	088
13216		Clean Line Deduct	unsigned character	REC 16	016
13217		Clean Line Product	unsigned character	REC 16	089
13218		Ratio/Sequential Delivery Mode	unsigned character	REC 16	090
13248	13249	Add Injector 9 Rate	IEEE single precision float	REC 16	042
13250	13251	Add Injector 10 Rate	IEEE single precision float	REC 16	045
13252	13253	Add Injector 11 Rate	IEEE single precision float	REC 16	048
13254	13255	Add Injector 12 Rate	IEEE single precision float	REC 16	051
13256	13257	Add Injector 13 Rate	IEEE single precision float	REC 16	054
13258	13259	Add Injector 14 Rate	IEEE single precision float	REC 16	057
13260	13261	Add Injector 15 Rate	IEEE single precision float	REC 16	060
13262	13263	Add Injector 16 Rate	IEEE single precision float	REC 16	063
13264	13265	Add Injector 17 Rate	IEEE single precision float	REC 16	066
13266	13267	Add Injector 18 Rate	IEEE single precision float	REC 16	069
13268	13269	Add Injector 19 Rate	IEEE single precision float	REC 16	072

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13270	13271	Add Injector 20 Rate	IEEE single precision float	REC 16	075
13272	13273	Add Injector 21 Rate	IEEE single precision float	REC 16	078
13274	13275	Add Injector 22 Rate	IEEE single precision float	REC 16	081
13276	13277	Add Injector 23 Rate	IEEE single precision float	REC 16	084
13278	13279	Add Injector 24 Rate	IEEE single precision float	REC 16	087
13280	13281	1 <sup>st</sup> Percentage	IEEE single precision float	REC 16	005
13282	13283	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 16	007
13284	13285	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 16	009
13286	13287	4 <sup>th</sup> Percentage	IEEE single precision float	REC 16	011
13288	13289	5 <sup>th</sup> Percentage	IEEE single precision float	REC 16	013
13290	13291	6 <sup>th</sup> Percentage	IEEE single precision float	REC 16	015
13312	13319	Recipe Name	Text (char[16])	REC 17	002
13376	13377	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 17	017
13378	13379	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 17	020
13380	13381	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 17	023
13382	13383	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 17	026
13384	13385	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 17	029
13386	13387	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 17	032
13388	13389	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 17	035
13390	13391	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 17	038
13392	13393	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 17	041
13394	13395	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 17	044
13396	13397	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 17	047
13398	13399	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 17	050
13400	13401	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 17	053
13402	13403	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 17	056
13404	13405	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 17	059
13406	13407	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 17	062
13408	13409	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 17	065
13410	13411	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 17	068
13412	13413	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 17	071
13414	13415	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 17	074
13416	13417	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 17	077
13418	13419	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 17	080
13420	13421	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 17	083
13422	13423	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 17	086

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13424	13425	Add Injector 1 Rate	IEEE single precision float	REC 17	018
13426	13427	Add Injector 2 Rate	IEEE single precision float	REC 17	021
13428	13429	Add Injector 3 Rate	IEEE single precision float	REC 17	024
13430	13431	Add Injector 4 Rate	IEEE single precision float	REC 17	027
13432	13433	Add Injector 5 Rate	IEEE single precision float	REC 17	030
13434	13435	Add Injector 6 Rate	IEEE single precision float	REC 17	033
13436	13437	Add Injector 7 Rate	IEEE single precision float	REC 17	036
13438	13439	Add Injector 8 Rate	IEEE single precision float	REC 17	039
13440		Recipe Used	unsigned character	REC 17	001
13441		HM Class Product	unsigned character	REC 17	003
13442		1 <sup>st</sup> Delivered	unsigned character	REC 17	004
13443		2 <sup>nd</sup> Delivered	unsigned character	REC 17	006
13444		3 <sup>rd</sup> Delivered	unsigned character	REC 17	008
13445		4 <sup>th</sup> Delivered	unsigned character	REC 17	010
13446		5 <sup>th</sup> Delivered	unsigned character	REC 17	012
13447		6 <sup>th</sup> Delivered	unsigned character	REC 17	014
13448		Product Using Inj 1	unsigned character	REC 17	019
13449		Product Using Inj 2	unsigned character	REC 17	022
13450		Product Using Inj 3	unsigned character	REC 17	025
13451		Product Using Inj 4	unsigned character	REC 17	028
13452		Product Using Inj 5	unsigned character	REC 17	031
13453		Product Using Inj 6	unsigned character	REC 17	034
13454		Product Using Inj 7	unsigned character	REC 17	037
13455		Product Using Inj 8	unsigned character	REC 17	040
13456		Product Using Inj 9	unsigned character	REC 17	043
13457		Product Using Inj 10	unsigned character	REC 17	046
13458		Product Using Inj 11	unsigned character	REC 17	049
13459		Product Using Inj 12	unsigned character	REC 17	052
13460		Product Using Inj 13	unsigned character	REC 17	055
13461		Product Using Inj 14	unsigned character	REC 17	058
13462		Product Using Inj 15	unsigned character	REC 17	061
13463		Product Using Inj 16	unsigned character	REC 17	064
13464		Product Using Inj 17	unsigned character	REC 17	067
13465		Product Using Inj 18	unsigned character	REC 17	070
13466		Product Using Inj 19	unsigned character	REC 17	073

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13467		Product Using Inj 20	unsigned character	REC 17	076
13468		Product Using Inj 21	unsigned character	REC 17	079
13469		Product Using Inj 22	unsigned character	REC 17	082
13470		Product Using Inj 23	unsigned character	REC 17	085
13471		Product Using Inj 24	unsigned character	REC 17	088
13472		Clean Line Deduct	unsigned character	REC 17	016
13473		Clean Line Product	unsigned character	REC 17	089
13474		Ratio/Sequential Delivery Mode	unsigned character	REC 17	090
13504	13505	Add Injector 9 Rate	IEEE single precision float	REC 17	042
13506	13507	Add Injector 10 Rate	IEEE single precision float	REC 17	045
13508	13509	Add Injector 11 Rate	IEEE single precision float	REC 17	048
13510	13511	Add Injector 12 Rate	IEEE single precision float	REC 17	051
13512	13513	Add Injector 13 Rate	IEEE single precision float	REC 17	054
13514	13515	Add Injector 14 Rate	IEEE single precision float	REC 17	057
13516	13517	Add Injector 15 Rate	IEEE single precision float	REC 17	060
13518	13519	Add Injector 16 Rate	IEEE single precision float	REC 17	063
13520	13521	Add Injector 17 Rate	IEEE single precision float	REC 17	066
13522	13523	Add Injector 18 Rate	IEEE single precision float	REC 17	069
13524	13525	Add Injector 19 Rate	IEEE single precision float	REC 17	072
13526	13527	Add Injector 20 Rate	IEEE single precision float	REC 17	075
13528	13529	Add Injector 21 Rate	IEEE single precision float	REC 17	078
13530	13531	Add Injector 22 Rate	IEEE single precision float	REC 17	081
13532	13533	Add Injector 23 Rate	IEEE single precision float	REC 17	084
13534	13535	Add Injector 24 Rate	IEEE single precision float	REC 17	087
13536	13537	1st Percentage	IEEE single precision float	REC 17	005
13538	13539	2nd Percentage	IEEE single precision float	REC 17	007
13540	13541	3rd Percentage	IEEE single precision float	REC 17	009
13542	13543	4th Percentage	IEEE single precision float	REC 17	011
13544	13545	5th Percentage	IEEE single precision float	REC 17	013
13546	13547	6th Percentage	IEEE single precision float	REC 17	015
13568	13575	Recipe Name	Text (char[16])	REC 18	002
13632	13633	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 18	017
13634	13635	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 18	020
13636	13637	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 18	023
13638	13639	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 18	026
13640	13641	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 18	029

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13642	13643	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 18	032
13644	13645	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 18	035
13646	13647	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 18	038
13648	13649	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 18	041
13650	13651	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 18	044
13652	13653	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 18	047
13654	13655	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 18	050
13656	13657	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 18	053
13658	13659	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 18	056
13660	13661	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 18	059
13662	13663	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 18	062
13664	13665	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 18	065
13666	13667	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 18	068
13668	13669	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 18	071
13670	13671	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 18	074
13672	13673	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 18	077
13674	13675	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 18	080
13676	13677	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 18	083
13678	13679	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 18	086
13680	13681	Add Injector 1 Rate	IEEE single precision float	REC 18	018
13682	13683	Add Injector 2 Rate	IEEE single precision float	REC 18	021
13684	13685	Add Injector 3 Rate	IEEE single precision float	REC 18	024
13686	13687	Add Injector 4 Rate	IEEE single precision float	REC 18	027
13688	13689	Add Injector 5 Rate	IEEE single precision float	REC 18	030
13690	13691	Add Injector 6 Rate	IEEE single precision float	REC 18	033
13692	13693	Add Injector 7 Rate	IEEE single precision float	REC 18	036
13694	13695	Add Injector 8 Rate	IEEE single precision float	REC 18	039
13696		Recipe Used	unsigned character	REC 18	001
13697		HM Class Product	unsigned character	REC 18	003
13698		1 <sup>st</sup> Delivered	unsigned character	REC 18	004
13699		2 <sup>nd</sup> Delivered	unsigned character	REC 18	006
13700		3 <sup>rd</sup> Delivered	unsigned character	REC 18	008
13701		4 <sup>th</sup> Delivered	unsigned character	REC 18	010
13702		5 <sup>th</sup> Delivered	unsigned character	REC 18	012
13703		6 <sup>th</sup> Delivered	unsigned character	REC 18	014
13704		Product Using Inj 1	unsigned character	REC 18	019

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13705		Product Using Inj 2	unsigned character	REC 18	022
13706		Product Using Inj 3	unsigned character	REC 18	025
13707		Product Using Inj 4	unsigned character	REC 18	028
13708		Product Using Inj 5	unsigned character	REC 18	031
13709		Product Using Inj 6	unsigned character	REC 18	034
13710		Product Using Inj 7	unsigned character	REC 18	037
13711		Product Using Inj 8	unsigned character	REC 18	040
13712		Product Using Inj 9	unsigned character	REC 18	043
13713		Product Using Inj 10	unsigned character	REC 18	046
13714		Product Using Inj 11	unsigned character	REC 18	049
13715		Product Using Inj 12	unsigned character	REC 18	052
13716		Product Using Inj 13	unsigned character	REC 18	055
13717		Product Using Inj 14	unsigned character	REC 18	058
13718		Product Using Inj 15	unsigned character	REC 18	061
13719		Product Using Inj 16	unsigned character	REC 18	064
13720		Product Using Inj 17	unsigned character	REC 18	067
13721		Product Using Inj 18	unsigned character	REC 18	070
13722		Product Using Inj 19	unsigned character	REC 18	073
13723		Product Using Inj 20	unsigned character	REC 18	076
13724		Product Using Inj 21	unsigned character	REC 18	079
13725		Product Using Inj 22	unsigned character	REC 18	082
13726		Product Using Inj 23	unsigned character	REC 18	085
13727		Product Using Inj 24	unsigned character	REC 18	088
13728		Clean Line Deduct	unsigned character	REC 18	016
13729		Clean Line Product	unsigned character	REC 18	089
13730		Ratio/Sequential Delivery mode	unsigned character	REC 18	090
13760	13761	Add Injector 9 Rate	IEEE single precision float	REC 18	042
13762	13763	Add Injector 10 Rate	IEEE single precision float	REC 18	045
13764	13765	Add Injector 11 Rate	IEEE single precision float	REC 18	048
13766	13767	Add Injector 12 Rate	IEEE single precision float	REC 18	051
13768	13769	Add Injector 13 Rate	IEEE single precision float	REC 18	054
13770	13771	Add Injector 14 Rate	IEEE single precision float	REC 18	057
13772	13773	Add Injector 15 Rate	IEEE single precision float	REC 18	060
13774	13775	Add Injector 16 Rate	IEEE single precision float	REC 18	063
13776	13777	Add Injector 17 Rate	IEEE single precision float	REC 18	066
13778	13779	Add Injector 18 Rate	IEEE single precision float	REC 18	069



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13780	13781	Add Injector 19 Rate	IEEE single precision float	REC 18	072
13782	13783	Add Injector 20 Rate	IEEE single precision float	REC 18	075
13784	13785	Add Injector 21 Rate	IEEE single precision float	REC 18	078
13786	13787	Add Injector 22 Rate	IEEE single precision float	REC 18	081
13788	13789	Add Injector 23 Rate	IEEE single precision float	REC 18	084
13790	13791	Add Injector 24 Rate	IEEE single precision float	REC 18	087
13792	13793	1 <sup>st</sup> Percentage	IEEE single precision float	REC 18	005
13794	13795	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 18	007
13796	13797	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 18	009
13798	13799	4 <sup>th</sup> Percentage	IEEE single precision float	REC 18	011
13800	13801	5 <sup>th</sup> Percentage	IEEE single precision float	REC 18	013
13802	13803	6 <sup>th</sup> Percentage	IEEE single precision float	REC 18	015
13824	13831	Recipe Name	Text (char[16])	REC 19	002
13888	13889	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 19	017
13890	13891	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 19	020
13892	13893	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 19	023
13894	13895	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 19	026
13896	13897	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 19	029
13898	13899	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 19	032
13900	13901	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 19	035
13902	13903	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 19	038
13904	13905	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 19	041
13906	13907	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 19	044
13908	13909	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 19	047
13910	13911	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 19	050
13912	13913	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 19	053
13914	13915	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 19	056
13916	13917	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 19	059
13918	13919	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 19	062
13920	13921	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 19	065
13922	13923	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 19	068
13924	13925	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 19	071
13926	13927	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 19	074
13928	13929	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 19	077
13930	13931	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 19	080
13932	13933	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 19	083

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13934	13935	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 19	086
13936	13937	Add Injector 1 Rate	IEEE single precision float	REC 19	018
13938	13939	Add Injector 2 Rate	IEEE single precision float	REC 19	021
13940	13941	Add Injector 3 Rate	IEEE single precision float	REC 19	024
13942	13943	Add Injector 4 Rate	IEEE single precision float	REC 19	027
13944	13945	Add Injector 5 Rate	IEEE single precision float	REC 19	030
13946	13947	Add Injector 6 Rate	IEEE single precision float	REC 19	033
13948	13949	Add Injector 7 Rate	IEEE single precision float	REC 19	036
13950	13951	Add Injector 8 Rate	IEEE single precision float	REC 19	039
13952		Recipe Used	unsigned character	REC 19	001
13953		HM Class Product	unsigned character	REC 19	003
13954		1 <sup>st</sup> Delivered	unsigned character	REC 19	004
13955		2 <sup>nd</sup> Delivered	unsigned character	REC 19	006
13956		3 <sup>rd</sup> Delivered	unsigned character	REC 19	008
13957		4 <sup>th</sup> Delivered	unsigned character	REC 19	010
13958		5 <sup>th</sup> Delivered	unsigned character	REC 19	012
13959		6 <sup>th</sup> Delivered	unsigned character	REC 19	014
13960		Product Using Inj 1	unsigned character	REC 19	019
13961		Product Using Inj 2	unsigned character	REC 19	022
13962		Product Using Inj 3	unsigned character	REC 19	025
13963		Product Using Inj 4	unsigned character	REC 19	028
13964		Product Using Inj 5	unsigned character	REC 19	031
13965		Product Using Inj 6	unsigned character	REC 19	034
13966		Product Using Inj 7	unsigned character	REC 19	037
13967		Product Using Inj 8	unsigned character	REC 19	040
13968		Product Using Inj 9	unsigned character	REC 19	043
13969		Product Using Inj 10	unsigned character	REC 19	046
13970		Product Using Inj 11	unsigned character	REC 19	049
13971		Product Using Inj 12	unsigned character	REC 19	052
13972		Product Using Inj 13	unsigned character	REC 19	055
13973		Product Using Inj 14	unsigned character	REC 19	058
13974		Product Using Inj 15	unsigned character	REC 19	061
13975		Product Using Inj 16	unsigned character	REC 19	064
13976		Product Using Inj 17	unsigned character	REC 19	067
13977		Product Using Inj 18	unsigned character	REC 19	070

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
13978		Product Using Inj 19	unsigned character	REC 19	073
13979		Product Using Inj 20	unsigned character	REC 19	076
13980		Product Using Inj 21	unsigned character	REC 19	079
13981		Product Using Inj 22	unsigned character	REC 19	082
13982		Product Using Inj 23	unsigned character	REC 19	085
13983		Product Using Inj 24	unsigned character	REC 19	088
13984		Clean Line Deduct	unsigned character	REC 19	016
13985		Clean Line Product	unsigned character	REC 19	089
13986		Ratio/Sequential Delivery Mode	unsigned character	REC 19	090
14016	14017	Add Injector 9 Rate	IEEE single precision float	REC 19	042
14018	14019	Add Injector 10 Rate	IEEE single precision float	REC 19	045
14020	14021	Add Injector 11 Rate	IEEE single precision float	REC 19	048
14022	14023	Add Injector 12 Rate	IEEE single precision float	REC 19	051
14024	14025	Add Injector 13 Rate	IEEE single precision float	REC 19	054
14026	14027	Add Injector 14 Rate	IEEE single precision float	REC 19	057
14028	14029	Add Injector 15 Rate	IEEE single precision float	REC 19	060
14030	14031	Add Injector 16 Rate	IEEE single precision float	REC 19	063
14032	14033	Add Injector 17 Rate	IEEE single precision float	REC 19	066
14034	14035	Add Injector 18 Rate	IEEE single precision float	REC 19	069
14036	14037	Add Injector 19 Rate	IEEE single precision float	REC 19	072
14038	14039	Add Injector 20 Rate	IEEE single precision float	REC 19	075
14040	14041	Add Injector 21 Rate	IEEE single precision float	REC 19	078
14042	14043	Add Injector 22 Rate	IEEE single precision float	REC 19	081
14044	14045	Add Injector 23 Rate	IEEE single precision float	REC 19	084
14046	14047	Add Injector 24 Rate	IEEE single precision float	REC 19	087
14048	14049	1st Percentage	IEEE single precision float	REC 19	005
14050	14051	2nd Percentage	IEEE single precision float	REC 19	007
14052	14053	3rd Percentage	IEEE single precision float	REC 19	009
14054	14055	4th Percentage	IEEE single precision float	REC 19	011
14056	14057	5th Percentage	IEEE single precision float	REC 19	013
14058	14059	6th Percentage	IEEE single precision float	REC 19	015
14080	14087	Recipe Name	Text (char[16])	REC 20	002
14144	14145	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 20	017
14146	14147	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 20	020
14148	14149	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 20	023
14150	14151	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 20	026

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14152	14153	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 20	029
14154	14155	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 20	032
14156	14157	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 20	035
14158	14159	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 20	038
14160	14161	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 20	041
14162	14163	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 20	044
14164	14165	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 20	047
14166	14167	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 20	050
14168	14169	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 20	053
14170	14171	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 20	056
14172	14173	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 20	059
14174	14175	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 20	062
14176	14177	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 20	065
14178	14179	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 20	068
14180	14181	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 20	071
14182	14183	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 20	074
14184	14185	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 20	077
14186	14187	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 20	080
14188	14189	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 20	083
14190	14191	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 20	086
14192	14193	Add Injector 1 Rate	IEEE single precision float	REC 20	018
14194	14195	Add Injector 2 Rate	IEEE single precision float	REC 20	021
14196	14197	Add Injector 3 Rate	IEEE single precision float	REC 20	024
14198	14199	Add Injector 4 Rate	IEEE single precision float	REC 20	027
14200	14201	Add Injector 5 Rate	IEEE single precision float	REC 20	030
14202	14203	Add Injector 6 Rate	IEEE single precision float	REC 20	033
14204	14205	Add Injector 7 Rate	IEEE single precision float	REC 20	036
14206	14207	Add Injector 8 Rate	IEEE single precision float	REC 20	039
14208		Recipe Used	unsigned character	REC 20	001
14209		HM Class Product	unsigned character	REC 20	003
14210		1 <sup>st</sup> Delivered	unsigned character	REC 20	004
14211		2 <sup>nd</sup> Delivered	unsigned character	REC 20	006
14212		3 <sup>rd</sup> Delivered	unsigned character	REC 20	008
14213		4 <sup>th</sup> Delivered	unsigned character	REC 20	010
14214		5 <sup>th</sup> Delivered	unsigned character	REC 20	012
14215		6 <sup>th</sup> Delivered	unsigned character	REC 20	014

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14216		Product Using Inj 1	unsigned character	REC 20	019
14217		Product Using Inj 2	unsigned character	REC 20	022
14218		Product Using Inj 3	unsigned character	REC 20	025
14219		Product Using Inj 4	unsigned character	REC 20	028
14220		Product Using Inj 5	unsigned character	REC 20	031
14221		Product Using Inj 6	unsigned character	REC 20	034
14222		Product Using Inj 7	unsigned character	REC 20	037
14223		Product Using Inj 8	unsigned character	REC 20	040
14224		Product Using Inj 9	unsigned character	REC 20	043
14225		Product Using Inj 10	unsigned character	REC 20	046
14226		Product Using Inj 11	unsigned character	REC 20	049
14227		Product Using Inj 12	unsigned character	REC 20	052
14228		Product Using Inj 13	unsigned character	REC 20	055
14229		Product Using Inj 14	unsigned character	REC 20	058
14230		Product Using Inj 15	unsigned character	REC 20	061
14231		Product Using Inj 16	unsigned character	REC 20	064
14232		Product Using Inj 17	unsigned character	REC 20	067
14233		Product Using Inj 18	unsigned character	REC 20	070
14234		Product Using Inj 19	unsigned character	REC 20	073
14235		Product Using Inj 20	unsigned character	REC 20	076
14236		Product Using Inj 21	unsigned character	REC 20	079
14237		Product Using Inj 22	unsigned character	REC 20	082
14238		Product Using Inj 23	unsigned character	REC 20	085
14239		Product Using Inj 24	unsigned character	REC 20	088
14240		Clean Line Deduct	unsigned character	REC 20	016
14241		Clean Line Product	unsigned character	REC 20	189
14242		Ratio/Sequential Delivery Mode	unsigned character	REC 20	090
14272	14273	Add Injector 9 Rate	IEEE single precision float	REC 20	042
14274	14275	Add Injector 10 Rate	IEEE single precision float	REC 20	045
14276	14277	Add Injector 11 Rate	IEEE single precision float	REC 20	048
14278	14279	Add Injector 12 Rate	IEEE single precision float	REC 20	051
14280	14281	Add Injector 13 Rate	IEEE single precision float	REC 20	054
14282	14283	Add Injector 14 Rate	IEEE single precision float	REC 20	057
14284	14285	Add Injector 15 Rate	IEEE single precision float	REC 20	060
14286	14287	Add Injector 16 Rate	IEEE single precision float	REC 20	063
14288	14289	Add Injector 17 Rate	IEEE single precision float	REC 20	066

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14290	14291	Add Injector 18 Rate	IEEE single precision float	REC 20	069
14292	14293	Add Injector 19 Rate	IEEE single precision float	REC 20	072
14294	14295	Add Injector 20 Rate	IEEE single precision float	REC 20	075
14296	14297	Add Injector 21 Rate	IEEE single precision float	REC 20	078
14298	14299	Add Injector 22 Rate	IEEE single precision float	REC 20	081
14300	14301	Add Injector 23 Rate	IEEE single precision float	REC 20	084
14302	14303	Add Injector 24 Rate	IEEE single precision float	REC 20	087
14304	14305	1 <sup>st</sup> Percentage	IEEE single precision float	REC 20	005
14306	14307	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 20	007
14308	14309	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 20	009
14310	14311	4 <sup>th</sup> Percentage	IEEE single precision float	REC 20	011
14312	14313	5 <sup>th</sup> Percentage	IEEE single precision float	REC 20	013
14314	14315	6 <sup>th</sup> Percentage	IEEE single precision float	REC 20	015
14336	14343	Recipe Name	Text (char[16])	REC 21	002
14400	14401	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 21	017
14402	14403	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 21	020
14404	14405	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 21	023
14406	14407	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 21	026
14408	14409	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 21	029
14410	14411	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 21	032
14412	14413	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 21	035
14414	14415	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 21	038
14416	14417	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 21	041
14418	14419	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 21	044
14420	14421	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 21	047
14422	14423	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 21	050
14424	14425	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 21	053
14426	14427	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 21	056
14428	14429	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 21	059
14430	14431	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 21	062
14432	14433	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 21	065
14434	14435	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 21	068
14436	14437	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 21	071
14438	14439	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 21	074
14440	14441	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 21	077
14442	14443	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 21	080

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14444	14445	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 21	083
14446	14447	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 21	086
14448	14449	Add Injector 1 Rate	IEEE single precision float	REC 21	018
14450	14451	Add Injector 2 Rate	IEEE single precision float	REC 21	021
14452	14453	Add Injector 3 Rate	IEEE single precision float	REC 21	024
14454	14455	Add Injector 4 Rate	IEEE single precision float	REC 21	027
14456	14457	Add Injector 5 Rate	IEEE single precision float	REC 21	030
14458	14459	Add Injector 6 Rate	IEEE single precision float	REC 21	033
14460	14461	Add Injector 7 Rate	IEEE single precision float	REC 21	036
14462	14463	Add Injector 8 Rate	IEEE single precision float	REC 21	039
14464		Recipe Used	unsigned character	REC 21	001
14465		HM Class Product	unsigned character	REC 21	003
14466		1 <sup>st</sup> Delivered	unsigned character	REC 21	004
14467		2 <sup>nd</sup> Delivered	unsigned character	REC 21	006
14468		3 <sup>rd</sup> Delivered	unsigned character	REC 21	008
14469		4 <sup>th</sup> Delivered	unsigned character	REC 21	010
14470		5 <sup>th</sup> Delivered	unsigned character	REC 21	012
14471		6 <sup>th</sup> Delivered	unsigned character	REC 21	014
14472		Product Using Inj 1	unsigned character	REC 21	019
14473		Product Using Inj 2	unsigned character	REC 21	022
14474		Product Using Inj 3	unsigned character	REC 21	025
14475		Product Using Inj 4	unsigned character	REC 21	028
14476		Product Using Inj 5	unsigned character	REC 21	031
14477		Product Using Inj 6	unsigned character	REC 21	034
14478		Product Using Inj 7	unsigned character	REC 21	037
14479		Product Using Inj 8	unsigned character	REC 21	040
14480		Product Using Inj 9	unsigned character	REC 21	043
14481		Product Using Inj 10	unsigned character	REC 21	046
14482		Product Using Inj 11	unsigned character	REC 21	049
14483		Product Using Inj 12	unsigned character	REC 21	052
14484		Product Using Inj 13	unsigned character	REC 21	055
14485		Product Using Inj 14	unsigned character	REC 21	058
14486		Product Using Inj 15	unsigned character	REC 21	061
14487		Product Using Inj 16	unsigned character	REC 21	064
14488		Product Using Inj 17	unsigned character	REC 21	067

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14489		Product Using Inj 18	unsigned character	REC 21	070
14490		Product Using Inj 19	unsigned character	REC 21	073
14491		Product Using Inj 20	unsigned character	REC 21	076
14492		Product Using Inj 21	unsigned character	REC 21	079
14493		Product Using Inj 22	unsigned character	REC 21	082
14494		Product Using Inj 23	unsigned character	REC 21	085
14495		Product Using Inj 24	unsigned character	REC 21	088
14496		Clean Line Deduct	unsigned character	REC 21	016
14497		Clean Line Product	unsigned character	REC 21	089
14978		Ratio/Sequential Delivery Mode	unsigned character	REC 21	090
14528	14529	Add Injector 9 Rate	IEEE single precision float	REC 21	042
14530	14531	Add Injector 10 Rate	IEEE single precision float	REC 21	045
14532	14533	Add Injector 11 Rate	IEEE single precision float	REC 21	048
14534	14535	Add Injector 12 Rate	IEEE single precision float	REC 21	051
14536	14537	Add Injector 13 Rate	IEEE single precision float	REC 21	054
14538	14539	Add Injector 14 Rate	IEEE single precision float	REC 21	057
14540	14541	Add Injector 15 Rate	IEEE single precision float	REC 21	060
14542	14543	Add Injector 16 Rate	IEEE single precision float	REC 21	063
14544	14545	Add Injector 17 Rate	IEEE single precision float	REC 21	066
14546	14547	Add Injector 18 Rate	IEEE single precision float	REC 21	069
14548	14549	Add Injector 19 Rate	IEEE single precision float	REC 21	072
14550	14551	Add Injector 20 Rate	IEEE single precision float	REC 21	075
14552	14553	Add Injector 21 Rate	IEEE single precision float	REC 21	078
14554	14555	Add Injector 22 Rate	IEEE single precision float	REC 21	081
14556	14557	Add Injector 23 Rate	IEEE single precision float	REC 21	084
14558	14559	Add Injector 24 Rate	IEEE single precision float	REC 21	087
14560	14561	1st Percentage	IEEE single precision float	REC 21	005
14562	14563	2nd Percentage	IEEE single precision float	REC 21	007
14564	14565	3rd Percentage	IEEE single precision float	REC 21	009
14566	14567	4th Percentage	IEEE single precision float	REC 21	011
14568	14569	5th Percentage	IEEE single precision float	REC 21	013
14570	14571	6th Percentage	IEEE single precision float	REC 21	015
14592	14599	Recipe Name	Text (char[16])	REC 22	002
14656	14657	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 22	017
14658	14659	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 22	020
14660	14661	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 22	023



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14662	14663	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 22	026
14664	14665	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 22	029
14666	14667	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 22	032
14668	14669	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 22	035
14670	14671	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 22	038
14672	14673	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 22	041
14674	14675	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 22	044
14676	14677	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 22	047
14678	14679	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 22	050
14680	14681	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 22	053
14682	14683	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 22	056
14684	14685	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 22	059
14686	14687	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 22	062
14688	14689	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 22	065
14690	14691	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 22	068
14692	14693	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 22	071
14694	14695	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 22	074
14696	14697	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 22	077
14698	14699	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 22	080
14700	14701	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 22	083
14702	14703	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 22	086
14704	14705	Add Injector 1 Rate	IEEE single precision float	REC 22	018
14706	14707	Add Injector 2 Rate	IEEE single precision float	REC 22	021
14708	14709	Add Injector 3 Rate	IEEE single precision float	REC 22	024
14710	14711	Add Injector 4 Rate	IEEE single precision float	REC 22	027
14712	14713	Add Injector 5 Rate	IEEE single precision float	REC 22	030
14714	14715	Add Injector 6 Rate	IEEE single precision float	REC 22	033
14716	14717	Add Injector 7 Rate	IEEE single precision float	REC 22	036
14718	14719	Add Injector 8 Rate	IEEE single precision float	REC 22	039
14720		Recipe Used	unsigned character	REC 22	001
14721		HM Class Product	unsigned character	REC 22	003
14722		1 <sup>st</sup> Delivered	unsigned character	REC 22	004
14723		2 <sup>nd</sup> Delivered	unsigned character	REC 22	006
14724		3 <sup>rd</sup> Delivered	unsigned character	REC 22	008
14725		4 <sup>th</sup> Delivered	unsigned character	REC 22	010
14726		5 <sup>th</sup> Delivered	unsigned character	REC 22	012

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14727		6th Delivered	unsigned character	REC 22	014
14728		Product Using Inj 1	unsigned character	REC 22	019
14729		Product Using Inj 2	unsigned character	REC 22	022
14730		Product Using Inj 3	unsigned character	REC 22	025
14731		Product Using Inj 4	unsigned character	REC 22	028
14732		Product Using Inj 5	unsigned character	REC 22	031
14733		Product Using Inj 6	unsigned character	REC 22	034
14734		Product Using Inj 7	unsigned character	REC 22	037
14735		Product Using Inj 8	unsigned character	REC 22	040
14736		Product Using Inj 9	unsigned character	REC 22	043
14737		Product Using Inj 10	unsigned character	REC 22	046
14738		Product Using Inj 11	unsigned character	REC 22	049
14739		Product Using Inj 12	unsigned character	REC 22	052
14740		Product Using Inj 13	unsigned character	REC 22	055
14741		Product Using Inj 14	unsigned character	REC 22	058
14742		Product Using Inj 15	unsigned character	REC 22	061
14743		Product Using Inj 16	unsigned character	REC 22	064
14744		Product Using Inj 17	unsigned character	REC 22	067
14745		Product Using Inj 18	unsigned character	REC 22	070
14746		Product Using Inj 19	unsigned character	REC 22	073
14747		Product Using Inj 20	unsigned character	REC 22	076
14748		Product Using Inj 21	unsigned character	REC 22	079
14749		Product Using Inj 22	unsigned character	REC 22	082
14750		Product Using Inj 23	unsigned character	REC 22	085
14751		Product Using Inj 24	unsigned character	REC 22	088
14752		Clean Line Deduct	unsigned character	REC 22	016
14753		Clean Line Product	unsigned character	REC 22	089
14754		Ratio/Sequential Delivery Mode	unsigned character	REC 22	090
14784	14785	Add Injector 9 Rate	IEEE single precision float	REC 22	042
14786	14787	Add Injector 10 Rate	IEEE single precision float	REC 22	045
14788	14789	Add Injector 11 Rate	IEEE single precision float	REC 22	048
14790	14791	Add Injector 12 Rate	IEEE single precision float	REC 22	051
14792	14793	Add Injector 13 Rate	IEEE single precision float	REC 22	054
14794	14795	Add Injector 14 Rate	IEEE single precision float	REC 22	057
14796	14797	Add Injector 15 Rate	IEEE single precision float	REC 22	060
14798	14799	Add Injector 16 Rate	IEEE single precision float	REC 22	063

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14800	14801	Add Injector 17 Rate	IEEE single precision float	REC 22	066
14802	14803	Add Injector 18 Rate	IEEE single precision float	REC 22	069
14804	14805	Add Injector 19 Rate	IEEE single precision float	REC 22	072
14806	14807	Add Injector 20 Rate	IEEE single precision float	REC 22	075
14808	14809	Add Injector 21 Rate	IEEE single precision float	REC 22	078
14810	14811	Add Injector 22 Rate	IEEE single precision float	REC 22	081
14812	14813	Add Injector 23 Rate	IEEE single precision float	REC 22	084
14814	14815	Add Injector 24 Rate	IEEE single precision float	REC 22	087
14816	14817	1st Percentage	IEEE single precision float	REC 22	005
14818	14819	2nd Percentage	IEEE single precision float	REC 22	007
14820	14821	3rd Percentage	IEEE single precision float	REC 22	009
14822	14823	4th Percentage	IEEE single precision float	REC 22	011
14824	14825	5th Percentage	IEEE single precision float	REC 22	013
14826	14827	6th Percentage	IEEE single precision float	REC 22	015
14848	14855	Recipe Name	Text (char[16])	REC 23	002
14912	14913	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 23	017
14914	14915	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 23	020
14916	14917	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 23	023
14918	14919	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 23	026
14920	14921	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 23	029
14922	14923	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 23	032
14924	14925	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 23	035
14926	14927	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 23	038
14928	14929	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 23	041
14930	14931	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 23	044
14932	14933	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 23	047
14934	14935	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 23	050
14936	14937	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 23	053
14938	14939	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 23	056
14940	14941	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 23	059
14942	14943	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 23	062
14944	14945	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 23	065
14946	14947	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 23	068
14948	14949	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 23	071
14950	14951	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 23	074
14952	14953	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 23	077

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
14954	14955	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 23	080
14956	14957	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 23	083
14958	14959	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 23	086
14960	14961	Add Injector 1 Rate	IEEE single precision float	REC 23	018
14962	14963	Add Injector 2 Rate	IEEE single precision float	REC 23	021
14964	14965	Add Injector 3 Rate	IEEE single precision float	REC 23	024
14966	14967	Add Injector 4 Rate	IEEE single precision float	REC 23	027
14968	14969	Add Injector 5 Rate	IEEE single precision float	REC 23	030
14970	14971	Add Injector 6 Rate	IEEE single precision float	REC 23	033
14972	14973	Add Injector 7 Rate	IEEE single precision float	REC 23	036
14974	14975	Add Injector 8 Rate	IEEE single precision float	REC 23	039
14976		Recipe Used	unsigned character	REC 23	001
14977		HM Class Product	unsigned character	REC 23	003
14978		1 <sup>st</sup> Delivered	unsigned character	REC 23	004
14979		2 <sup>nd</sup> Delivered	unsigned character	REC 23	006
14980		3 <sup>rd</sup> Delivered	unsigned character	REC 23	008
14981		4 <sup>th</sup> Delivered	unsigned character	REC 23	010
14982		5 <sup>th</sup> Delivered	unsigned character	REC 23	012
14983		6 <sup>th</sup> Delivered	unsigned character	REC 23	014
14984		Product Using Inj 1	unsigned character	REC 23	019
14985		Product Using Inj 2	unsigned character	REC 23	022
14986		Product Using Inj 3	unsigned character	REC 23	025
14987		Product Using Inj 4	unsigned character	REC 23	028
14988		Product Using Inj 5	unsigned character	REC 23	031
14989		Product Using Inj 6	unsigned character	REC 23	034
14990		Product Using Inj 7	unsigned character	REC 23	037
14991		Product Using Inj 8	unsigned character	REC 23	040
14992		Product Using Inj 9	unsigned character	REC 23	043
14993		Product Using Inj 10	unsigned character	REC 23	046
14994		Product Using Inj 11	unsigned character	REC 23	049
14995		Product Using Inj 12	unsigned character	REC 23	052
14996		Product Using Inj 13	unsigned character	REC 23	055
14997		Product Using Inj 14	unsigned character	REC 23	058
14998		Product Using Inj 15	unsigned character	REC 23	061
14999		Product Using Inj 16	unsigned character	REC 23	064

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15000		Product Using Inj 17	unsigned character	REC 23	067
15001		Product Using Inj 18	unsigned character	REC 23	070
15002		Product Using Inj 19	unsigned character	REC 23	073
15003		Product Using Inj 20	unsigned character	REC 23	076
15004		Product Using Inj 21	unsigned character	REC 23	079
15005		Product Using Inj 22	unsigned character	REC 23	082
15006		Product Using Inj 23	unsigned character	REC 23	085
15007		Product Using Inj 24	unsigned character	REC 23	088
15008		Clean Line Deduct	unsigned character	REC 23	016
15009		Clean Line Product	unsigned character	REC 23	089
15010		Ratio/Sequential Delivery Mode	unsigned character	REC 23	090
15040	15041	Add Injector 9 Rate	IEEE single precision float	REC 23	042
15042	15043	Add Injector 10 Rate	IEEE single precision float	REC 23	045
15044	15045	Add Injector 11 Rate	IEEE single precision float	REC 23	048
15046	15047	Add Injector 12 Rate	IEEE single precision float	REC 23	051
15048	15049	Add Injector 13 Rate	IEEE single precision float	REC 23	054
15050	15051	Add Injector 14 Rate	IEEE single precision float	REC 23	057
15052	15053	Add Injector 15 Rate	IEEE single precision float	REC 23	060
15054	15055	Add Injector 16 Rate	IEEE single precision float	REC 23	063
15056	15057	Add Injector 17 Rate	IEEE single precision float	REC 23	066
15058	15059	Add Injector 18 Rate	IEEE single precision float	REC 23	069
15060	15061	Add Injector 19 Rate	IEEE single precision float	REC 23	072
15062	15063	Add Injector 20 Rate	IEEE single precision float	REC 23	075
15064	15065	Add Injector 21 Rate	IEEE single precision float	REC 23	078
15066	15067	Add Injector 22 Rate	IEEE single precision float	REC 23	081
15068	15069	Add Injector 23 Rate	IEEE single precision float	REC 23	084
15070	15071	Add Injector 24 Rate	IEEE single precision float	REC 23	087
15072	15073	1st Percentage	IEEE single precision float	REC 23	005
15074	15075	2nd Percentage	IEEE single precision float	REC 23	007
15076	15077	3rd Percentage	IEEE single precision float	REC 23	009
15078	15079	4th Percentage	IEEE single precision float	REC 23	011
15080	15081	5th Percentage	IEEE single precision float	REC 23	013
15082	15083	6th Percentage	IEEE single precision float	REC 23	015
15104	15111	Recipe Name	Text (char[16])	REC 24	002
15168	15169	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 24	017
15170	15171	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 24	020

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15172	15173	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 24	023
15174	15175	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 24	026
15176	15177	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 24	029
15178	15179	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 24	032
15180	15181	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 24	035
15182	15183	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 24	038
15184	15185	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 24	041
15186	15187	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 24	044
15188	15189	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 24	047
15190	15191	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 24	050
15192	15193	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 24	053
15194	15195	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 24	056
15196	15197	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 24	059
15198	15199	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 24	062
15200	15201	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 24	065
15202	15203	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 24	068
15204	15205	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 24	071
15206	15207	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 24	074
15208	15209	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 24	077
15210	15211	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 24	080
15212	15213	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 24	083
15214	15215	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 24	086
15216	15217	Add Injector 1 Rate	IEEE single precision float	REC 24	018
15218	15219	Add Injector 2 Rate	IEEE single precision float	REC 24	021
15220	15221	Add Injector 3 Rate	IEEE single precision float	REC 24	024
15222	15223	Add Injector 4 Rate	IEEE single precision float	REC 24	027
15224	15225	Add Injector 5 Rate	IEEE single precision float	REC 24	030
15226	15227	Add Injector 6 Rate	IEEE single precision float	REC 24	033
15228	15229	Add Injector 7 Rate	IEEE single precision float	REC 24	036
15230	15231	Add Injector 8 Rate	IEEE single precision float	REC 24	039
15232		Recipe Used	unsigned character	REC 24	001
15233		HM Class Product	unsigned character	REC 24	003
15234		1 <sup>st</sup> Delivered	unsigned character	REC 24	004
15235		2 <sup>nd</sup> Delivered	unsigned character	REC 24	006
15236		3 <sup>rd</sup> Delivered	unsigned character	REC 24	008
15237		4 <sup>th</sup> Delivered	unsigned character	REC 24	010

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15238		5th Delivered	unsigned character	REC 24	012
15239		6th Delivered	unsigned character	REC 24	014
15240		Product Using Inj 1	unsigned character	REC 24	019
15241		Product Using Inj 2	unsigned character	REC 24	022
15242		Product Using Inj 3	unsigned character	REC 24	025
15243		Product Using Inj 4	unsigned character	REC 24	028
15244		Product Using Inj 5	unsigned character	REC 24	031
15245		Product Using Inj 6	unsigned character	REC 24	034
15246		Product Using Inj 7	unsigned character	REC 24	037
15247		Product Using Inj 8	unsigned character	REC 24	040
15248		Product Using Inj 9	unsigned character	REC 24	043
15249		Product Using Inj 10	unsigned character	REC 24	046
15250		Product Using Inj 11	unsigned character	REC 24	049
15251		Product Using Inj 12	unsigned character	REC 24	052
15252		Product Using Inj 13	unsigned character	REC 24	055
15253		Product Using Inj 14	unsigned character	REC 24	058
15254		Product Using Inj 15	unsigned character	REC 24	061
15255		Product Using Inj 16	unsigned character	REC 24	064
15256		Product Using Inj 17	unsigned character	REC 24	067
15257		Product Using Inj 18	unsigned character	REC 24	070
15258		Product Using Inj 19	unsigned character	REC 24	073
15259		Product Using Inj 20	unsigned character	REC 24	076
15260		Product Using Inj 21	unsigned character	REC 24	079
15261		Product Using Inj 22	unsigned character	REC 24	082
15262		Product Using Inj 23	unsigned character	REC 24	085
15263		Product Using Inj 24	unsigned character	REC 24	088
15264		Clean Line Deduct	unsigned character	REC 24	016
15265		Clean Line Product	unsigned character	REC 24	089
15266		Ratio/Sequential Delivery Mode	unsigned character	REC 24	090
15296	15297	Add Injector 9 Rate	IEEE single precision float	REC 24	042
15298	15299	Add Injector 10 Rate	IEEE single precision float	REC 24	045
15300	15301	Add Injector 11 Rate	IEEE single precision float	REC 24	048
15302	15303	Add Injector 12 Rate	IEEE single precision float	REC 24	051
15304	15305	Add Injector 13 Rate	IEEE single precision float	REC 24	054
15306	15307	Add Injector 14 Rate	IEEE single precision float	REC 24	057
15308	15309	Add Injector 15 Rate	IEEE single precision float	REC 24	060

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15310	15311	Add Injector 16 Rate	IEEE single precision float	REC 24	063
15312	15313	Add Injector 17 Rate	IEEE single precision float	REC 24	066
15314	15315	Add Injector 18 Rate	IEEE single precision float	REC 24	069
15316	15317	Add Injector 19 Rate	IEEE single precision float	REC 24	072
15318	15319	Add Injector 20 Rate	IEEE single precision float	REC 24	075
15320	15321	Add Injector 21 Rate	IEEE single precision float	REC 24	078
15322	15323	Add Injector 22 Rate	IEEE single precision float	REC 24	081
15324	15325	Add Injector 23 Rate	IEEE single precision float	REC 24	084
15326	15327	Add Injector 24 Rate	IEEE single precision float	REC 24	087
15328	15329	1 <sup>st</sup> Percentage	IEEE single precision float	REC 24	005
15330	15331	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 24	007
15332	15333	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 24	009
15334	15335	4 <sup>th</sup> Percentage	IEEE single precision float	REC 24	011
15336	15337	5 <sup>th</sup> Percentage	IEEE single precision float	REC 24	013
15338	15339	6 <sup>th</sup> Percentage	IEEE single precision float	REC 24	015
15360	15367	Recipe Name	Text (char[16])	REC 25	002
15424	15425	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 25	017
15426	15427	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 25	020
15428	15429	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 25	023
15430	15431	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 25	026
15432	15433	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 25	029
15434	15435	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 25	032
15436	15437	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 25	035
15438	15439	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 25	038
15440	15441	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 25	041
15442	15443	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 25	044
15444	15445	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 25	047
15446	15447	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 25	050
15448	15449	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 25	053
15450	15451	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 25	056
15452	15453	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 25	059
15454	15455	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 25	062
15456	15457	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 25	065
15458	15459	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 25	068
15460	15461	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 25	071
15462	15463	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 25	074



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15464	15465	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 25	077
15466	15467	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 25	080
15468	15469	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 25	083
15470	15471	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 25	086
15472	15473	Add Injector 1 Rate	IEEE single precision float	REC 25	018
15474	15475	Add Injector 2 Rate	IEEE single precision float	REC 25	021
15476	15477	Add Injector 3 Rate	IEEE single precision float	REC 25	024
15478	15479	Add Injector 4 Rate	IEEE single precision float	REC 25	027
15480	15481	Add Injector 5 Rate	IEEE single precision float	REC 25	030
15482	15483	Add Injector 6 Rate	IEEE single precision float	REC 25	033
15484	15485	Add Injector 7 Rate	IEEE single precision float	REC 25	036
15486	15487	Add Injector 8 Rate	IEEE single precision float	REC 25	039
15488		Recipe Used	unsigned character	REC 25	001
15489		HM Class Product	unsigned character	REC 25	003
15490		1 <sup>st</sup> Delivered	unsigned character	REC 25	004
15491		2 <sup>nd</sup> Delivered	unsigned character	REC 25	006
15492		3 <sup>rd</sup> Delivered	unsigned character	REC 25	008
15493		4 <sup>th</sup> Delivered	unsigned character	REC 25	010
15494		5 <sup>th</sup> Delivered	unsigned character	REC 25	012
15495		6 <sup>th</sup> Delivered	unsigned character	REC 25	014
15496		Product Using Inj 1	unsigned character	REC 25	019
15497		Product Using Inj 2	unsigned character	REC 25	022
15498		Product Using Inj 3	unsigned character	REC 25	025
15499		Product Using Inj 4	unsigned character	REC 25	028
15500		Product Using Inj 5	unsigned character	REC 25	031
15501		Product Using Inj 6	unsigned character	REC 25	034
15502		Product Using Inj 7	unsigned character	REC 25	037
15503		Product Using Inj 8	unsigned character	REC 25	040
15504		Product Using Inj 9	unsigned character	REC 25	043
15505		Product Using Inj 10	unsigned character	REC 25	046
15506		Product Using Inj 11	unsigned character	REC 25	049
15507		Product Using Inj 12	unsigned character	REC 25	052
15508		Product Using Inj 13	unsigned character	REC 25	055
15509		Product Using Inj 14	unsigned character	REC 25	058
15510		Product Using Inj 15	unsigned character	REC 25	061

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15511		Product Using Inj 16	unsigned character	REC 25	064
15512		Product Using Inj 17	unsigned character	REC 25	067
15513		Product Using Inj 18	unsigned character	REC 25	070
15514		Product Using Inj 19	unsigned character	REC 25	073
15515		Product Using Inj 20	unsigned character	REC 25	076
15516		Product Using Inj 21	unsigned character	REC 25	079
15517		Product Using Inj 22	unsigned character	REC 25	082
15518		Product Using Inj 23	unsigned character	REC 25	085
15519		Product Using Inj 24	unsigned character	REC 25	088
15520		Clean Line Deduct	unsigned character	REC 25	016
15521		Clean Line Product	unsigned character	REC 25	089
15522		Ratio/Sequential Delivery Mode	unsigned character	REC 25	090
15552	15553	Add Injector 9 Rate	IEEE single precision float	REC 25	042
15554	15555	Add Injector 10 Rate	IEEE single precision float	REC 25	045
15556	15557	Add Injector 11 Rate	IEEE single precision float	REC 25	048
15558	15559	Add Injector 12 Rate	IEEE single precision float	REC 25	051
15560	15561	Add Injector 13 Rate	IEEE single precision float	REC 25	054
15562	15563	Add Injector 14 Rate	IEEE single precision float	REC 25	057
15564	15565	Add Injector 15 Rate	IEEE single precision float	REC 25	060
15566	15567	Add Injector 16 Rate	IEEE single precision float	REC 25	063
15568	15569	Add Injector 17 Rate	IEEE single precision float	REC 25	066
15570	15571	Add Injector 18 Rate	IEEE single precision float	REC 25	069
15572	15573	Add Injector 19 Rate	IEEE single precision float	REC 25	072
15574	15575	Add Injector 20 Rate	IEEE single precision float	REC 25	075
15576	15577	Add Injector 21 Rate	IEEE single precision float	REC 25	078
15578	15579	Add Injector 22 Rate	IEEE single precision float	REC 25	081
15580	15581	Add Injector 23 Rate	IEEE single precision float	REC 25	084
15582	15583	Add Injector 24 Rate	IEEE single precision float	REC 25	087
15584	15585	1st Percentage	IEEE single precision float	REC 25	005
15586	15587	2nd Percentage	IEEE single precision float	REC 25	007
15588	15589	3rd Percentage	IEEE single precision float	REC 25	009
15590	15591	4th Percentage	IEEE single precision float	REC 25	011
15592	15593	5th Percentage	IEEE single precision float	REC 25	013
15594	15595	6th Percentage	IEEE single precision float	REC 25	015
15616	15623	Recipe Name	Text (char[16])	REC 26	002
15680	15681	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 26	017

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15682	15683	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 26	020
15684	15685	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 26	023
15686	15687	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 26	026
15688	15689	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 26	029
15690	15691	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 26	032
15692	15693	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 26	035
15694	15695	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 26	038
15696	15697	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 26	041
15698	15699	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 26	044
15700	15701	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 26	047
15702	15703	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 26	050
15704	15705	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 26	053
15706	15707	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 26	056
15708	15709	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 26	059
15710	15711	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 26	062
15712	15713	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 26	065
15714	15715	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 26	068
15716	15717	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 26	071
15718	15719	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 26	074
15720	15721	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 26	077
15722	15723	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 26	080
15724	15725	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 26	083
15726	15727	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 26	086
15728	15729	Add Injector 1 Rate	IEEE single precision float	REC 26	018
15730	15731	Add Injector 2 Rate	IEEE single precision float	REC 26	021
15732	15733	Add Injector 3 Rate	IEEE single precision float	REC 26	024
15734	15735	Add Injector 4 Rate	IEEE single precision float	REC 26	027
15736	15737	Add Injector 5 Rate	IEEE single precision float	REC 26	030
15738	15739	Add Injector 6 Rate	IEEE single precision float	REC 26	033
15740	15741	Add Injector 7 Rate	IEEE single precision float	REC 26	036
15742	15743	Add Injector 8 Rate	IEEE single precision float	REC 26	039
15744		Recipe Used	unsigned character	REC 26	001
15745		HM Class Product	unsigned character	REC 26	003
15746		1 <sup>st</sup> Delivered	unsigned character	REC 26	004
15747		2 <sup>nd</sup> Delivered	unsigned character	REC 26	006
15748		3 <sup>rd</sup> Delivered	unsigned character	REC 26	008

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15749		4th Delivered	unsigned character	REC 26	010
15750		5th Delivered	unsigned character	REC 26	012
15751		6th Delivered	unsigned character	REC 26	014
15752		Product Using Inj 1	unsigned character	REC 26	019
15753		Product Using Inj 2	unsigned character	REC 26	022
15754		Product Using Inj 3	unsigned character	REC 26	025
15755		Product Using Inj 4	unsigned character	REC 26	028
15756		Product Using Inj 5	unsigned character	REC 26	031
15757		Product Using Inj 6	unsigned character	REC 26	034
15758		Product Using Inj 7	unsigned character	REC 26	037
15759		Product Using Inj 8	unsigned character	REC 26	040
15760		Product Using Inj 9	unsigned character	REC 26	043
15761		Product Using Inj 10	unsigned character	REC 26	046
15762		Product Using Inj 11	unsigned character	REC 26	049
15763		Product Using Inj 12	unsigned character	REC 26	052
15764		Product Using Inj 13	unsigned character	REC 26	055
15765		Product Using Inj 14	unsigned character	REC 26	058
15766		Product Using Inj 15	unsigned character	REC 26	061
15767		Product Using Inj 16	unsigned character	REC 26	064
15768		Product Using Inj 17	unsigned character	REC 26	067
15769		Product Using Inj 18	unsigned character	REC 26	070
15770		Product Using Inj 19	unsigned character	REC 26	073
15771		Product Using Inj 20	unsigned character	REC 26	076
15772		Product Using Inj 21	unsigned character	REC 26	079
15773		Product Using Inj 22	unsigned character	REC 26	082
15774		Product Using Inj 23	unsigned character	REC 26	085
15775		Product Using Inj 24	unsigned character	REC 26	088
15776		Clean Line Deduct	unsigned character	REC 26	016
15777		Clean Line Product	unsigned character	REC 26	089
15778		Ratio/Sequential Delivery Mode	unsigned character	REC 26	090
15808	15809	Add Injector 9 Rate	IEEE single precision float	REC 26	042
15810	15811	Add Injector 10 Rate	IEEE single precision float	REC 26	045
15812	15813	Add Injector 11 Rate	IEEE single precision float	REC 26	048
15814	15815	Add Injector 12 Rate	IEEE single precision float	REC 26	051
15816	15817	Add Injector 13 Rate	IEEE single precision float	REC 26	054
15818	15819	Add Injector 14 Rate	IEEE single precision float	REC 26	057

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15820	15821	Add Injector 15 Rate	IEEE single precision float	REC 26	060
15822	15823	Add Injector 16 Rate	IEEE single precision float	REC 26	063
15824	15825	Add Injector 17 Rate	IEEE single precision float	REC 26	066
15826	15827	Add Injector 18 Rate	IEEE single precision float	REC 26	069
15828	15829	Add Injector 19 Rate	IEEE single precision float	REC 26	072
15830	15831	Add Injector 20 Rate	IEEE single precision float	REC 26	075
15832	15833	Add Injector 21 Rate	IEEE single precision float	REC 26	078
15834	15835	Add Injector 22 Rate	IEEE single precision float	REC 26	081
15836	15837	Add Injector 23 Rate	IEEE single precision float	REC 26	084
15838	15839	Add Injector 24 Rate	IEEE single precision float	REC 26	087
15840	15841	1st Percentage	IEEE single precision float	REC 26	005
15842	15843	2nd Percentage	IEEE single precision float	REC 26	007
15844	15845	3rd Percentage	IEEE single precision float	REC 26	009
15846	15847	4th Percentage	IEEE single precision float	REC 26	011
15848	15849	5th Percentage	IEEE single precision float	REC 26	013
15850	15851	6th Percentage	IEEE single precision float	REC 26	015
15872	15879	Recipe Name	Text (char[16])	REC 27	002
15936	15937	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 27	017
15938	15939	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 27	020
15940	15941	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 27	023
15942	15943	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 27	026
15944	15945	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 27	029
15946	15947	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 27	032
15948	15949	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 27	035
15950	15951	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 27	038
15952	15953	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 27	041
15954	15955	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 27	044
15956	15957	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 27	047
15958	15959	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 27	050
15960	15961	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 27	053
15962	15963	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 27	056
15964	15965	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 27	059
15966	15967	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 27	062
15968	15969	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 27	065
15970	15971	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 27	068
15972	15973	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 27	071

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
15974	15975	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 27	074
15976	15977	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 27	077
15978	15979	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 27	080
15980	15981	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 27	083
15982	15983	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 27	086
15984	15985	Add Injector 1 Rate	IEEE single precision float	REC 27	018
15986	15987	Add Injector 2 Rate	IEEE single precision float	REC 27	021
15988	15989	Add Injector 3 Rate	IEEE single precision float	REC 27	024
15990	15991	Add Injector 4 Rate	IEEE single precision float	REC 27	027
15992	15993	Add Injector 5 Rate	IEEE single precision float	REC 27	030
15994	15995	Add Injector 6 Rate	IEEE single precision float	REC 27	033
15996	15997	Add Injector 7 Rate	IEEE single precision float	REC 27	036
15998	15999	Add Injector 8 Rate	IEEE single precision float	REC 27	039
16000		Recipe Used	unsigned character	REC 27	001
16001		HM Class Product	unsigned character	REC 27	003
16002		1 <sup>st</sup> Delivered	unsigned character	REC 27	004
16003		2 <sup>nd</sup> Delivered	unsigned character	REC 27	006
16004		3 <sup>rd</sup> Delivered	unsigned character	REC 27	008
16005		4 <sup>th</sup> Delivered	unsigned character	REC 27	010
16006		5 <sup>th</sup> Delivered	unsigned character	REC 27	012
16007		6 <sup>th</sup> Delivered	unsigned character	REC 27	014
16008		Product Using Inj 1	unsigned character	REC 27	019
16009		Product Using Inj 2	unsigned character	REC 27	022
16010		Product Using Inj 3	unsigned character	REC 27	025
16011		Product Using Inj 4	unsigned character	REC 27	028
16012		Product Using Inj 5	unsigned character	REC 27	031
16013		Product Using Inj 6	unsigned character	REC 27	034
16014		Product Using Inj 7	unsigned character	REC 27	037
16015		Product Using Inj 8	unsigned character	REC 27	040
16016		Product Using Inj 9	unsigned character	REC 27	043
16017		Product Using Inj 10	unsigned character	REC 27	046
16018		Product Using Inj 11	unsigned character	REC 27	049
16019		Product Using Inj 12	unsigned character	REC 27	052
16020		Product Using Inj 13	unsigned character	REC 27	055
16021		Product Using Inj 14	unsigned character	REC 27	058

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16022		Product Using Inj 15	unsigned character	REC 27	061
16023		Product Using Inj 16	unsigned character	REC 27	064
16024		Product Using Inj 17	unsigned character	REC 27	067
16025		Product Using Inj 18	unsigned character	REC 27	070
16026		Product Using Inj 19	unsigned character	REC 27	073
16027		Product Using Inj 20	unsigned character	REC 27	076
16028		Product Using Inj 21	unsigned character	REC 27	079
16029		Product Using Inj 22	unsigned character	REC 27	082
16030		Product Using Inj 23	unsigned character	REC 27	085
16031		Product Using Inj 24	unsigned character	REC 27	088
16032		Clean Line Deduct	unsigned character	REC 27	016
16033		Clean Line Product	unsigned character	REC 27	089
16034		Ratio/Sequential Delivery mode	unsigned character	REC 27	090
16064	16065	Add Injector 9 Rate	IEEE single precision float	REC 27	042
16066	16067	Add Injector 10 Rate	IEEE single precision float	REC 27	045
16068	16069	Add Injector 11 Rate	IEEE single precision float	REC 27	048
16070	16071	Add Injector 12 Rate	IEEE single precision float	REC 27	051
16072	16073	Add Injector 13 Rate	IEEE single precision float	REC 27	054
16074	16075	Add Injector 14 Rate	IEEE single precision float	REC 27	057
16076	16077	Add Injector 15 Rate	IEEE single precision float	REC 27	060
16078	16079	Add Injector 16 Rate	IEEE single precision float	REC 27	063
16080	16081	Add Injector 17 Rate	IEEE single precision float	REC 27	066
16082	16083	Add Injector 18 Rate	IEEE single precision float	REC 27	069
16084	16085	Add Injector 19 Rate	IEEE single precision float	REC 27	072
16086	16087	Add Injector 20 Rate	IEEE single precision float	REC 27	075
16088	16089	Add Injector 21 Rate	IEEE single precision float	REC 27	078
16090	16091	Add Injector 22 Rate	IEEE single precision float	REC 27	081
16092	16093	Add Injector 23 Rate	IEEE single precision float	REC 27	084
16094	16095	Add Injector 24 Rate	IEEE single precision float	REC 27	087
16096	16097	1st Percentage	IEEE single precision float	REC 27	005
16098	16099	2nd Percentage	IEEE single precision float	REC 27	007
16100	16101	3rd Percentage	IEEE single precision float	REC 27	009
16102	16103	4th Percentage	IEEE single precision float	REC 27	011
16104	16105	5th Percentage	IEEE single precision float	REC 27	013
16106	16107	6th Percentage	IEEE single precision float	REC 27	015
16128	16135	Recipe Name	Text (char[16])	REC 28	002

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16192	16193	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 28	017
16194	16195	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 28	020
16196	16197	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 28	023
16198	16199	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 28	026
16200	16201	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 28	029
16202	16203	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 28	032
16204	16205	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 28	035
16206	16207	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 28	038
16208	16209	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 28	041
16210	16211	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 28	044
16212	16213	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 28	047
16214	16215	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 28	050
16216	16217	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 28	053
16218	16219	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 28	056
16220	16221	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 28	059
16222	16223	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 28	062
16224	16225	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 28	065
16226	16227	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 28	068
16228	16229	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 28	071
16230	16231	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 28	074
16232	16233	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 28	077
16234	16235	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 28	080
16236	16237	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 28	083
16238	16239	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 28	086
16240	16241	Add Injector 1 Rate	IEEE single precision float	REC 28	018
16242	16243	Add Injector 2 Rate	IEEE single precision float	REC 28	021
16244	16245	Add Injector 3 Rate	IEEE single precision float	REC 28	024
16246	16247	Add Injector 4 Rate	IEEE single precision float	REC 28	027
16248	16249	Add Injector 5 Rate	IEEE single precision float	REC 28	030
16250	16251	Add Injector 6 Rate	IEEE single precision float	REC 28	033
16252	16253	Add Injector 7 Rate	IEEE single precision float	REC 28	036
16254	16255	Add Injector 8 Rate	IEEE single precision float	REC 28	039
16256		Recipe Used	unsigned character	REC 28	001
16257		HM Class Product	unsigned character	REC 28	003
16258		1 <sup>st</sup> Delivered	unsigned character	REC 28	004
16259		2 <sup>nd</sup> Delivered	unsigned character	REC 28	006



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16260		3rd Delivered	unsigned character	REC 28	008
16261		4th Delivered	unsigned character	REC 28	010
16262		5th Delivered	unsigned character	REC 28	012
16263		6th Delivered	unsigned character	REC 28	014
16264		Product Using Inj 1	unsigned character	REC 28	019
16265		Product Using Inj 2	unsigned character	REC 28	022
16266		Product Using Inj 3	unsigned character	REC 28	025
16267		Product Using Inj 4	unsigned character	REC 28	028
16268		Product Using Inj 5	unsigned character	REC 28	031
16269		Product Using Inj 6	unsigned character	REC 28	034
16270		Product Using Inj 7	unsigned character	REC 28	037
16271		Product Using Inj 8	unsigned character	REC 28	040
16272		Product Using Inj 9	unsigned character	REC 28	043
16273		Product Using Inj 10	unsigned character	REC 28	046
16274		Product Using Inj 11	unsigned character	REC 28	049
16275		Product Using Inj 12	unsigned character	REC 28	052
16276		Product Using Inj 13	unsigned character	REC 28	055
16277		Product Using Inj 14	unsigned character	REC 28	058
16278		Product Using Inj 15	unsigned character	REC 28	061
16279		Product Using Inj 16	unsigned character	REC 28	064
16280		Product Using Inj 17	unsigned character	REC 28	067
16281		Product Using Inj 18	unsigned character	REC 28	070
16282		Product Using Inj 19	unsigned character	REC 28	073
16283		Product Using Inj 20	unsigned character	REC 28	076
16284		Product Using Inj 21	unsigned character	REC 28	079
16285		Product Using Inj 22	unsigned character	REC 28	082
16286		Product Using Inj 23	unsigned character	REC 28	085
16287		Product Using Inj 24	unsigned character	REC 28	088
16288		Clean Line Deduct	unsigned character	REC 28	016
16289		Clean Line Product	unsigned character	REC 28	089
16290		Ratio/Sequential Delivery Mode	unsigned character	REC 28	090
16320	16321	Add Injector 9 Rate	IEEE single precision float	REC 28	042
16322	16323	Add Injector 10 Rate	IEEE single precision float	REC 28	045
16324	16325	Add Injector 11 Rate	IEEE single precision float	REC 28	048
16326	16327	Add Injector 12 Rate	IEEE single precision float	REC 28	051
16328	16329	Add Injector 13 Rate	IEEE single precision float	REC 28	054

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16330	16331	Add Injector 14 Rate	IEEE single precision float	REC 28	057
16332	16333	Add Injector 15 Rate	IEEE single precision float	REC 28	060
16334	16335	Add Injector 16 Rate	IEEE single precision float	REC 28	063
16336	16337	Add Injector 17 Rate	IEEE single precision float	REC 28	066
16338	16339	Add Injector 18 Rate	IEEE single precision float	REC 28	069
16340	16341	Add Injector 19 Rate	IEEE single precision float	REC 28	072
16342	16343	Add Injector 20 Rate	IEEE single precision float	REC 28	075
16344	16345	Add Injector 21 Rate	IEEE single precision float	REC 28	078
16346	16347	Add Injector 22 Rate	IEEE single precision float	REC 28	081
16348	16349	Add Injector 23 Rate	IEEE single precision float	REC 28	084
16350	16351	Add Injector 24 Rate	IEEE single precision float	REC 28	087
16352	16353	1st Percentage	IEEE single precision float	REC 28	005
16354	16355	2nd Percentage	IEEE single precision float	REC 28	007
16356	16357	3rd Percentage	IEEE single precision float	REC 28	009
16358	16359	4th Percentage	IEEE single precision float	REC 28	011
16360	16361	5th Percentage	IEEE single precision float	REC 28	013
16362	16363	6th Percentage	IEEE single precision float	REC 28	015
16384	16391	Recipe Name	Text (char[16])	REC 29	002
16448	16449	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 29	017
16450	16451	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 29	020
16452	16453	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 29	023
16454	16455	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 29	026
16456	16457	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 29	029
16458	16459	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 29	032
16460	16461	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 29	035
16462	16463	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 29	038
16464	16465	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 29	041
16466	16467	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 29	044
16468	16469	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 29	047
16470	16471	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 29	050
16472	16473	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 29	053
16474	16475	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 29	056
16476	16477	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 29	059
16478	16479	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 29	062
16480	16481	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 29	065
16482	16483	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 29	068

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16484	16485	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 29	071
16486	16487	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 29	074
16488	16489	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 29	077
16490	16491	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 29	080
16492	16493	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 29	083
16494	16495	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 29	086
16496	16497	Add Injector 1 Rate	IEEE single precision float	REC 29	018
16498	16499	Add Injector 2 Rate	IEEE single precision float	REC 29	021
16500	16501	Add Injector 3 Rate	IEEE single precision float	REC 29	024
16502	16503	Add Injector 4 Rate	IEEE single precision float	REC 29	027
16504	16505	Add Injector 5 Rate	IEEE single precision float	REC 29	030
16506	16507	Add Injector 6 Rate	IEEE single precision float	REC 29	033
16508	16509	Add Injector 7 Rate	IEEE single precision float	REC 29	036
16510	16511	Add Injector 8 Rate	IEEE single precision float	REC 29	039
16512		Recipe Used	unsigned character	REC 29	001
16513		HM Class Product	unsigned character	REC 29	003
16514		1 <sup>st</sup> Delivered	unsigned character	REC 29	004
16515		2 <sup>nd</sup> Delivered	unsigned character	REC 29	006
16516		3 <sup>rd</sup> Delivered	unsigned character	REC 29	008
16517		4 <sup>th</sup> Delivered	unsigned character	REC 29	010
16518		5 <sup>th</sup> Delivered	unsigned character	REC 29	012
16519		6 <sup>th</sup> Delivered	unsigned character	REC 29	014
16520		Product Using Inj 1	unsigned character	REC 29	019
16521		Product Using Inj 2	unsigned character	REC 29	022
16522		Product Using Inj 3	unsigned character	REC 29	025
16523		Product Using Inj 4	unsigned character	REC 29	028
16524		Product Using Inj 5	unsigned character	REC 29	031
16525		Product Using Inj 6	unsigned character	REC 29	034
16526		Product Using Inj 7	unsigned character	REC 29	037
16527		Product Using Inj 8	unsigned character	REC 29	040
16528		Product Using Inj 9	unsigned character	REC 29	043
16529		Product Using Inj 10	unsigned character	REC 29	046
16530		Product Using Inj 11	unsigned character	REC 29	049
16531		Product Using Inj 12	unsigned character	REC 29	052
16532		Product Using Inj 13	unsigned character	REC 29	055

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16533		Product Using Inj 14	unsigned character	REC 29	058
16534		Product Using Inj 15	unsigned character	REC 29	061
16535		Product Using Inj 16	unsigned character	REC 29	064
16536		Product Using Inj 17	unsigned character	REC 29	067
16537		Product Using Inj 18	unsigned character	REC 29	070
16538		Product Using Inj 19	unsigned character	REC 29	073
16539		Product Using Inj 20	unsigned character	REC 29	076
16540		Product Using Inj 21	unsigned character	REC 29	079
16541		Product Using Inj 22	unsigned character	REC 29	082
16542		Product Using Inj 23	unsigned character	REC 29	085
16543		Product Using Inj 24	unsigned character	REC 29	088
16544		Clean Line Deduct	unsigned character	REC 29	016
16545		Clean Line Product	unsigned character	REC 29	089
16546		Ratio/Sequential Delivery Mode	unsigned character	REC 29	090
16576	16577	Add Injector 9 Rate	IEEE single precision float	REC 29	042
16578	16579	Add Injector 10 Rate	IEEE single precision float	REC 29	045
16580	16581	Add Injector 11 Rate	IEEE single precision float	REC 29	048
16582	16583	Add Injector 12 Rate	IEEE single precision float	REC 29	051
16584	16585	Add Injector 13 Rate	IEEE single precision float	REC 29	054
16586	16587	Add Injector 14 Rate	IEEE single precision float	REC 29	057
16588	16589	Add Injector 15 Rate	IEEE single precision float	REC 29	060
16590	16591	Add Injector 16 Rate	IEEE single precision float	REC 29	063
16592	16593	Add Injector 17 Rate	IEEE single precision float	REC 29	066
16594	16595	Add Injector 18 Rate	IEEE single precision float	REC 29	069
16596	16597	Add Injector 19 Rate	IEEE single precision float	REC 29	072
16598	16599	Add Injector 20 Rate	IEEE single precision float	REC 29	075
16600	16601	Add Injector 21 Rate	IEEE single precision float	REC 29	078
16602	16603	Add Injector 22 Rate	IEEE single precision float	REC 29	081
16604	16605	Add Injector 23 Rate	IEEE single precision float	REC 29	084
16606	16607	Add Injector 24 Rate	IEEE single precision float	REC 29	087
16608	16609	1st Percentage	IEEE single precision float	REC 29	005
16610	16611	2nd Percentage	IEEE single precision float	REC 29	007
16612	16613	3rd Percentage	IEEE single precision float	REC 29	009
16614	16615	4th Percentage	IEEE single precision float	REC 29	011
16616	16617	5th Percentage	IEEE single precision float	REC 29	013
16618	16619	6th Percentage	IEEE single precision float	REC 29	015

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16640	16647	Recipe Name	Text (char[16])	REC 30	002
16704	16705	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 30	017
16706	16707	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 30	020
16708	16709	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 30	023
16710	16711	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 30	026
16712	16713	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 30	029
16714	16715	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 30	032
16716	16717	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 30	035
16718	16719	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 30	038
16720	16721	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 30	041
16722	16723	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 30	044
16724	16725	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 30	047
16726	16727	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 30	050
16728	16729	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 30	053
16730	16731	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 30	056
16732	16733	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 30	059
16734	16735	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 30	062
16736	16737	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 30	065
16738	16739	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 30	068
16740	16741	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 30	071
16742	16743	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 30	074
16744	16745	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 30	077
16746	16747	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 30	080
16748	16749	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 30	083
16750	16751	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 30	086
16752	16753	Add Injector 1 Rate	IEEE single precision float	REC 30	018
16754	16755	Add Injector 2 Rate	IEEE single precision float	REC 30	021
16756	16757	Add Injector 3 Rate	IEEE single precision float	REC 30	024
16758	16759	Add Injector 4 Rate	IEEE single precision float	REC 30	027
16760	16761	Add Injector 5 Rate	IEEE single precision float	REC 30	030
16762	16763	Add Injector 6 Rate	IEEE single precision float	REC 30	033
16764	16765	Add Injector 7 Rate	IEEE single precision float	REC 30	036
16766	16767	Add Injector 8 Rate	IEEE single precision float	REC 30	039
16768		Recipe Used	unsigned character	REC 30	001
16769		HM Class Product	unsigned character	REC 30	003
16770		1 <sup>st</sup> Delivered	unsigned character	REC 30	004

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16771		2nd Delivered	unsigned character	REC 30	006
16772		3rd Delivered	unsigned character	REC 30	008
16773		4th Delivered	unsigned character	REC 30	010
16774		5th Delivered	unsigned character	REC 30	012
16775		6th Delivered	unsigned character	REC 30	014
16776		Product Using Inj 1	unsigned character	REC 30	019
16777		Product Using Inj 2	unsigned character	REC 30	022
16778		Product Using Inj 3	unsigned character	REC 30	025
16779		Product Using Inj 4	unsigned character	REC 30	028
16780		Product Using Inj 5	unsigned character	REC 30	031
16781		Product Using Inj 6	unsigned character	REC 30	034
16782		Product Using Inj 7	unsigned character	REC 30	037
16783		Product Using Inj 8	unsigned character	REC 30	040
16784		Product Using Inj 9	unsigned character	REC 30	043
16785		Product Using Inj 10	unsigned character	REC 30	046
16786		Product Using Inj 11	unsigned character	REC 30	049
16787		Product Using Inj 12	unsigned character	REC 30	052
16788		Product Using Inj 13	unsigned character	REC 30	055
16789		Product Using Inj 14	unsigned character	REC 30	058
16790		Product Using Inj 15	unsigned character	REC 30	061
16791		Product Using Inj 16	unsigned character	REC 30	064
16792		Product Using Inj 17	unsigned character	REC 30	067
16793		Product Using Inj 18	unsigned character	REC 30	070
16794		Product Using Inj 19	unsigned character	REC 30	073
16795		Product Using Inj 20	unsigned character	REC 30	076
16796		Product Using Inj 21	unsigned character	REC 30	079
16797		Product Using Inj 22	unsigned character	REC 30	082
16798		Product Using Inj 23	unsigned character	REC 30	085
16799		Product Using Inj 24	unsigned character	REC 30	088
16800		Clean Line Deduct	unsigned character	REC 30	016
16801		Clean Line Products	unsigned character	REC 30	089
16802		Ratio/Sequential Delivery Mode	unsigned character	REC 30	090
16832	16833	Add Injector 9 Rate	IEEE single precision float	REC 30	042
16834	16835	Add Injector 10 Rate	IEEE single precision float	REC 30	045
16836	16837	Add Injector 11 Rate	IEEE single precision float	REC 30	048
16838	16839	Add Injector 12 Rate	IEEE single precision float	REC 30	051

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16840	16841	Add Injector 13 Rate	IEEE single precision float	REC 30	054
16842	16843	Add Injector 14 Rate	IEEE single precision float	REC 30	057
16844	16845	Add Injector 15 Rate	IEEE single precision float	REC 30	060
16846	16847	Add Injector 16 Rate	IEEE single precision float	REC 30	063
16848	16849	Add Injector 17 Rate	IEEE single precision float	REC 30	066
16850	16851	Add Injector 18 Rate	IEEE single precision float	REC 30	069
16852	16853	Add Injector 19 Rate	IEEE single precision float	REC 30	072
16854	16855	Add Injector 20 Rate	IEEE single precision float	REC 30	075
16856	16857	Add Injector 21 Rate	IEEE single precision float	REC 30	078
16858	16859	Add Injector 22 Rate	IEEE single precision float	REC 30	081
16860	16861	Add Injector 23 Rate	IEEE single precision float	REC 30	084
16862	16863	Add Injector 24 Rate	IEEE single precision float	REC 30	087
16864	16865	1 <sup>st</sup> Percentage	IEEE single precision float	REC 30	005
16866	16867	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 30	007
16868	16869	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 30	009
16870	16871	4 <sup>th</sup> Percentage	IEEE single precision float	REC 30	011
16872	16873	5 <sup>th</sup> Percentage	IEEE single precision float	REC 30	013
16874	16875	6 <sup>th</sup> Percentage	IEEE single precision float	REC 30	015
16896	16903	Recipe Name	Text (char[16])	REC 31	002
16960	16961	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 31	017
16962	16963	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 31	020
16964	16965	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 31	023
16966	16967	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 31	026
16968	16969	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 31	029
16970	16971	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 31	032
16972	16973	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 31	035
16974	16975	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 31	038
16976	16977	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 31	041
16978	16979	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 31	044
16980	16981	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 31	047
16982	16983	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 31	050
16984	16985	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 31	053
16986	16987	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 31	056
16988	16989	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 31	059
16990	16991	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 31	062
16992	16993	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 31	065

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
16994	16995	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 31	068
16996	16997	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 31	071
16998	16999	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 31	074
17000	17001	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 31	077
17002	17003	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 31	080
17004	17005	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 31	083
17006	17007	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 31	086
17008	17009	Add Injector 1 Rate	IEEE single precision float	REC 31	018
17010	17011	Add Injector 2 Rate	IEEE single precision float	REC 31	021
17012	17013	Add Injector 3 Rate	IEEE single precision float	REC 31	024
17014	17015	Add Injector 4 Rate	IEEE single precision float	REC 31	027
17016	17017	Add Injector 5 Rate	IEEE single precision float	REC 31	030
17018	17019	Add Injector 6 Rate	IEEE single precision float	REC 31	033
17020	17021	Add Injector 7 Rate	IEEE single precision float	REC 31	036
17022	17023	Add Injector 8 Rate	IEEE single precision float	REC 31	039
17024		Recipe Used	unsigned character	REC 31	001
17025		HM Class Product	unsigned character	REC 31	003
17026		1st Delivered	unsigned character	REC 31	004
17027		2nd Delivered	unsigned character	REC 31	006
17028		3rd Delivered	unsigned character	REC 31	008
17029		4th Delivered	unsigned character	REC 31	010
17030		5th Delivered	unsigned character	REC 31	012
17031		6th Delivered	unsigned character	REC 31	014
17032		Product Using Inj 1	unsigned character	REC 31	019
17033		Product Using Inj 2	unsigned character	REC 31	022
17034		Product Using Inj 3	unsigned character	REC 31	025
17035		Product Using Inj 4	unsigned character	REC 31	028
17036		Product Using Inj 5	unsigned character	REC 31	031
17037		Product Using Inj 6	unsigned character	REC 31	034
17038		Product Using Inj 7	unsigned character	REC 31	037
17039		Product Using Inj 8	unsigned character	REC 31	040
17040		Product Using Inj 9	unsigned character	REC 31	043
17041		Product Using Inj 10	unsigned character	REC 31	046
17042		Product Using Inj 11	unsigned character	REC 31	049
17043		Product Using Inj 12	unsigned character	REC 31	052



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17044		Product Using Inj 13	unsigned character	REC 31	055
17045		Product Using Inj 14	unsigned character	REC 31	058
17046		Product Using Inj 15	unsigned character	REC 31	061
17047		Product Using Inj 16	unsigned character	REC 31	064
17048		Product Using Inj 17	unsigned character	REC 31	067
17049		Product Using Inj 18	unsigned character	REC 31	070
17050		Product Using Inj 19	unsigned character	REC 31	073
17051		Product Using Inj 20	unsigned character	REC 31	076
17052		Product Using Inj 21	unsigned character	REC 31	079
17053		Product Using Inj 22	unsigned character	REC 31	082
17054		Product Using Inj 23	unsigned character	REC 31	085
17055		Product Using Inj 24	unsigned character	REC 31	088
17056		Clean Line Deduct	unsigned character	REC 31	016
17057		Clean Line Products	unsigned character	REC 31	089
17058		Ratio/Sequential Delivery Mode	unsigned character	REC 31	090
17088	17089	Add Injector 9 Rate	IEEE single precision float	REC 31	042
17090	17091	Add Injector 10 Rate	IEEE single precision float	REC 31	045
17092	17093	Add Injector 11 Rate	IEEE single precision float	REC 31	048
17094	17095	Add Injector 12 Rate	IEEE single precision float	REC 31	051
17096	17097	Add Injector 13 Rate	IEEE single precision float	REC 31	054
17098	17099	Add Injector 14 Rate	IEEE single precision float	REC 31	057
17100	17101	Add Injector 15 Rate	IEEE single precision float	REC 31	060
17102	17103	Add Injector 16 Rate	IEEE single precision float	REC 31	063
17104	17105	Add Injector 17 Rate	IEEE single precision float	REC 31	066
17106	17107	Add Injector 18 Rate	IEEE single precision float	REC 31	069
17108	17109	Add Injector 19 Rate	IEEE single precision float	REC 31	072
17110	17111	Add Injector 20 Rate	IEEE single precision float	REC 31	075
17112	17113	Add Injector 21 Rate	IEEE single precision float	REC 31	078
17114	17115	Add Injector 22 Rate	IEEE single precision float	REC 31	081
17116	17117	Add Injector 23 Rate	IEEE single precision float	REC 31	084
17118	17119	Add Injector 24 Rate	IEEE single precision float	REC 31	087
17120	17121	1 <sup>st</sup> Percentage	IEEE single precision float	REC 31	005
17122	17123	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 31	007
17124	17125	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 31	009
17126	17127	4 <sup>th</sup> Percentage	IEEE single precision float	REC 31	011
17128	17129	5 <sup>th</sup> Percentage	IEEE single precision float	REC 31	013

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17130	17131	6 <sup>th</sup> Percentage	IEEE single precision float	REC 31	015
17152	17159	Recipe Name	Text (char[16])	REC 32	002
17216	17217	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 32	017
17218	17219	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 32	020
17220	17221	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 32	023
17222	17223	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 32	026
17224	17225	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 32	029
17226	17227	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 32	032
17228	17229	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 32	035
17230	17231	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 32	038
17232	17233	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 32	041
17234	17235	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 32	044
17236	17237	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 32	047
17238	17239	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 32	050
17240	17241	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 32	053
17242	17243	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 32	056
17244	17245	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 32	059
17246	17247	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 32	062
17248	17249	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 32	065
17250	17251	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 32	068
17252	17253	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 32	071
17254	17255	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 32	074
17256	17257	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 32	077
17258	17259	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 32	080
17260	17261	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 32	083
17262	17263	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 32	086
17264	17265	Add Injector 1 Rate	IEEE single precision float	REC 32	018
17266	17267	Add Injector 2 Rate	IEEE single precision float	REC 32	021
17268	17269	Add Injector 3 Rate	IEEE single precision float	REC 32	024
17270	17271	Add Injector 4 Rate	IEEE single precision float	REC 32	027
17272	17273	Add Injector 5 Rate	IEEE single precision float	REC 32	030
17274	17275	Add Injector 6 Rate	IEEE single precision float	REC 32	033
17276	17277	Add Injector 7 Rate	IEEE single precision float	REC 32	036
17278	17279	Add Injector 8 Rate	IEEE single precision float	REC 32	039
17280		Recipe Used	unsigned character	REC 32	001
17281		HM Class Product	unsigned character	REC 32	003

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17282		1 <sup>st</sup> Delivered	unsigned character	REC 32	004
17283		2 <sup>nd</sup> Delivered	unsigned character	REC 32	006
17284		3 <sup>rd</sup> Delivered	unsigned character	REC 32	008
17285		4 <sup>th</sup> Delivered	unsigned character	REC 32	010
17286		5 <sup>th</sup> Delivered	unsigned character	REC 32	012
17287		6 <sup>th</sup> Delivered	unsigned character	REC 32	014
17288		Product Using Inj 1	unsigned character	REC 32	019
17289		Product Using Inj 2	unsigned character	REC 32	022
17290		Product Using Inj 3	unsigned character	REC 32	025
17291		Product Using Inj 4	unsigned character	REC 32	028
17292		Product Using Inj 5	unsigned character	REC 32	031
17293		Product Using Inj 6	unsigned character	REC 32	034
17294		Product Using Inj 7	unsigned character	REC 32	037
17295		Product Using Inj 8	unsigned character	REC 32	040
17296		Product Using Inj 9	unsigned character	REC 32	043
17297		Product Using Inj 10	unsigned character	REC 32	046
17298		Product Using Inj 11	unsigned character	REC 32	049
17299		Product Using Inj 12	unsigned character	REC 32	052
17300		Product Using Inj 13	unsigned character	REC 32	055
17301		Product Using Inj 14	unsigned character	REC 32	058
17302		Product Using Inj 15	unsigned character	REC 32	061
17303		Product Using Inj 16	unsigned character	REC 32	064
17304		Product Using Inj 17	unsigned character	REC 32	067
17305		Product Using Inj 18	unsigned character	REC 32	070
17306		Product Using Inj 19	unsigned character	REC 32	073
17307		Product Using Inj 20	unsigned character	REC 32	076
17308		Product Using Inj 21	unsigned character	REC 32	079
17309		Product Using Inj 22	unsigned character	REC 32	082
17310		Product Using Inj 23	unsigned character	REC 32	085
17311		Product Using Inj 24	unsigned character	REC 32	088
17312		Clean Line Deduct	unsigned character	REC 32	016
17313		Clean Line Product	unsigned character	REC 32	089
17314		Ratio/Sequential Delivery Mode	unsigned character	REC 32	090
17344	17345	Add Injector 9 Rate	IEEE single precision float	REC 32	042
17346	17347	Add Injector 10 Rate	IEEE single precision float	REC 32	045
17348	17349	Add Injector 11 Rate	IEEE single precision float	REC 32	048

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17350	17351	Add Injector 12 Rate	IEEE single precision float	REC 32	051
17352	17353	Add Injector 13 Rate	IEEE single precision float	REC 32	054
17354	17355	Add Injector 14 Rate	IEEE single precision float	REC 32	057
17356	17357	Add Injector 15 Rate	IEEE single precision float	REC 32	060
17358	17359	Add Injector 16 Rate	IEEE single precision float	REC 32	063
17360	17361	Add Injector 17 Rate	IEEE single precision float	REC 32	066
17362	17363	Add Injector 18 Rate	IEEE single precision float	REC 32	069
17364	17365	Add Injector 19 Rate	IEEE single precision float	REC 32	072
17366	17367	Add Injector 20 Rate	IEEE single precision float	REC 32	075
17368	17369	Add Injector 21 Rate	IEEE single precision float	REC 32	078
17370	17371	Add Injector 22 Rate	IEEE single precision float	REC 32	081
17372	17373	Add Injector 23 Rate	IEEE single precision float	REC 32	084
17374	17375	Add Injector 24 Rate	IEEE single precision float	REC 32	087
17376	17377	1st Percentage	IEEE single precision float	REC 32	005
17378	17379	2nd Percentage	IEEE single precision float	REC 32	007
17380	17381	3rd Percentage	IEEE single precision float	REC 32	009
17382	17383	4th Percentage	IEEE single precision float	REC 32	011
17384	17385	5th Percentage	IEEE single precision float	REC 32	013
17386	17387	6th Percentage	IEEE single precision float	REC 32	015
17408	17415	Recipe Name	Text (char[16])	REC 33	002
17472	17473	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 33	017
17474	17475	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 33	020
17476	17477	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 33	023
17478	17479	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 33	026
17480	17481	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 33	029
17482	17483	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 33	032
17484	17485	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 33	035
17486	17487	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 33	038
17488	17489	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 33	041
17490	17491	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 33	044
17492	17493	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 33	047
17494	17495	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 33	050
17496	17497	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 33	053
17498	17499	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 33	056
17500	17501	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 33	059
17502	17503	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 33	062

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17504	17505	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 33	065
17506	17507	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 33	068
17508	17509	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 33	071
17510	17511	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 33	074
17512	17513	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 33	077
17514	17515	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 33	080
17516	17517	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 33	083
17518	17519	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 33	086
17520	17521	Add Injector 1 Rate	IEEE single precision float	REC 33	018
17522	17523	Add Injector 2 Rate	IEEE single precision float	REC 33	021
17524	17525	Add Injector 3 Rate	IEEE single precision float	REC 33	024
17526	17527	Add Injector 4 Rate	IEEE single precision float	REC 33	027
17528	17529	Add Injector 5 Rate	IEEE single precision float	REC 33	030
17530	17531	Add Injector 6 Rate	IEEE single precision float	REC 33	033
17532	17533	Add Injector 7 Rate	IEEE single precision float	REC 33	036
17534	17535	Add Injector 8 Rate	IEEE single precision float	REC 33	039
17536		Recipe Used	unsigned character	REC 33	001
17537		HM Class Product	unsigned character	REC 33	003
17538		1 <sup>st</sup> Delivered	unsigned character	REC 33	004
17539		2 <sup>nd</sup> Delivered	unsigned character	REC 33	006
17540		3 <sup>rd</sup> Delivered	unsigned character	REC 33	008
17541		4 <sup>th</sup> Delivered	unsigned character	REC 33	010
17542		5 <sup>th</sup> Delivered	unsigned character	REC 33	012
17543		6 <sup>th</sup> Delivered	unsigned character	REC 33	014
17544		Product Using Inj 1	unsigned character	REC 33	019
17545		Product Using Inj 2	unsigned character	REC 33	022
17546		Product Using Inj 3	unsigned character	REC 33	025
17547		Product Using Inj 4	unsigned character	REC 33	028
17548		Product Using Inj 5	unsigned character	REC 33	031
17549		Product Using Inj 6	unsigned character	REC 33	034
17550		Product Using Inj 7	unsigned character	REC 33	037
17551		Product Using Inj 8	unsigned character	REC 33	040
17552		Product Using Inj 9	unsigned character	REC 33	043
17553		Product Using Inj 10	unsigned character	REC 33	046
17554		Product Using Inj 11	unsigned character	REC 33	049

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17555		Product Using Inj 12	unsigned character	REC 33	052
17556		Product Using Inj 13	unsigned character	REC 33	055
17557		Product Using Inj 14	unsigned character	REC 33	058
17558		Product Using Inj 15	unsigned character	REC 33	061
17559		Product Using Inj 16	unsigned character	REC 33	064
17560		Product Using Inj 17	unsigned character	REC 33	067
17561		Product Using Inj 18	unsigned character	REC 33	070
17562		Product Using Inj 19	unsigned character	REC 33	073
17563		Product Using Inj 20	unsigned character	REC 33	076
17564		Product Using Inj 21	unsigned character	REC 33	079
17565		Product Using Inj 22	unsigned character	REC 33	082
17566		Product Using Inj 23	unsigned character	REC 33	085
17567		Product Using Inj 24	unsigned character	REC 33	088
17568		Clean Line Deduct	unsigned character	REC 33	016
17569		Clean Line Product	unsigned character	REC 33	089
17570		Ratio/Sequential Delivery Mode	unsigned character	REC 33	090
17600	17601	Add Injector 9 Rate	IEEE single precision float	REC 33	042
17602	17603	Add Injector 10 Rate	IEEE single precision float	REC 33	045
17604	17605	Add Injector 11 Rate	IEEE single precision float	REC 33	048
17606	17607	Add Injector 12 Rate	IEEE single precision float	REC 33	051
17608	17609	Add Injector 13 Rate	IEEE single precision float	REC 33	054
17610	17611	Add Injector 14 Rate	IEEE single precision float	REC 33	057
17612	17613	Add Injector 15 Rate	IEEE single precision float	REC 33	060
17614	17615	Add Injector 16 Rate	IEEE single precision float	REC 33	063
17616	17617	Add Injector 17 Rate	IEEE single precision float	REC 33	066
17618	17619	Add Injector 18 Rate	IEEE single precision float	REC 33	069
17620	17621	Add Injector 19 Rate	IEEE single precision float	REC 33	072
17622	17623	Add Injector 20 Rate	IEEE single precision float	REC 33	075
17624	17625	Add Injector 21 Rate	IEEE single precision float	REC 33	078
17626	17627	Add Injector 22 Rate	IEEE single precision float	REC 33	081
17628	17629	Add Injector 23 Rate	IEEE single precision float	REC 33	084
17630	17631	Add Injector 24 Rate	IEEE single precision float	REC 33	087
17632	17633	1st Percentage	IEEE single precision float	REC 33	005
17634	17635	2nd Percentage	IEEE single precision float	REC 33	007
17636	17637	3rd Percentage	IEEE single precision float	REC 33	009
17638	17639	4th Percentage	IEEE single precision float	REC 33	011

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17640	17641	5th Percentage	IEEE single precision float	REC 33	013
17642	17643	6th Percentage	IEEE single precision float	REC 33	015
17664	17671	Recipe Name	Text (char[16])	REC 34	002
17728	17729	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 34	017
17730	17731	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 34	020
17732	17733	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 34	023
17734	17735	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 34	026
17736	17737	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 34	029
17738	17739	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 34	032
17740	17741	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 34	035
17742	17743	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 34	038
17744	17745	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 34	041
17746	17747	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 34	044
17748	17749	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 34	047
17750	17751	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 34	050
17752	17753	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 34	053
17754	17755	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 34	056
17756	17757	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 34	059
17758	17759	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 34	062
17760	17761	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 34	065
17762	17763	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 34	068
17764	17765	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 34	071
17766	17767	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 34	074
17768	17769	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 34	077
17770	17771	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 34	080
17772	17773	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 34	083
17774	17775	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 34	086
17776	17777	Add Injector 1 Rate	IEEE single precision float	REC 34	018
17778	17779	Add Injector 2 Rate	IEEE single precision float	REC 34	021
17780	17781	Add Injector 3 Rate	IEEE single precision float	REC 34	024
17782	17783	Add Injector 4 Rate	IEEE single precision float	REC 34	027
17784	17785	Add Injector 5 Rate	IEEE single precision float	REC 34	030
17786	17787	Add Injector 6 Rate	IEEE single precision float	REC 34	033
17788	17789	Add Injector 7 Rate	IEEE single precision float	REC 34	036
17790	17791	Add Injector 8 Rate	IEEE single precision float	REC 34	039
17792		Recipe Used	unsigned character	REC 34	001

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17793		HM Class Prod	unsigned character	REC 34	003
17794		1st Delivered	unsigned character	REC 34	004
17795		2nd Delivered	unsigned character	REC 34	006
17796		3rd Delivered	unsigned character	REC 34	008
17797		4th Delivered	unsigned character	REC 34	010
17798		5th Delivered	unsigned character	REC 34	012
17799		6th Delivered	unsigned character	REC 34	014
17800		Product Using Inj 1	unsigned character	REC 34	019
17801		Product Using Inj 2	unsigned character	REC 34	022
17802		Product Using Inj 3	unsigned character	REC 34	025
17803		Product Using Inj 4	unsigned character	REC 34	028
17804		Product Using Inj 5	unsigned character	REC 34	031
17805		Product Using Inj 6	unsigned character	REC 34	034
17806		Product Using Inj 7	unsigned character	REC 34	037
17807		Product Using Inj 8	unsigned character	REC 34	040
17808		Product Using Inj 9	unsigned character	REC 34	043
17809		Product Using Inj 10	unsigned character	REC 34	046
17810		Product Using Inj 11	unsigned character	REC 34	049
17811		Product Using Inj 12	unsigned character	REC 34	052
17812		Product Using Inj 13	unsigned character	REC 34	055
17813		Product Using Inj 14	unsigned character	REC 34	058
17814		Product Using Inj 15	unsigned character	REC 34	061
17815		Product Using Inj 16	unsigned character	REC 34	064
17816		Product Using Inj 17	unsigned character	REC 34	067
17817		Product Using Inj 18	unsigned character	REC 34	070
17818		Product Using Inj 19	unsigned character	REC 34	073
17819		Product Using Inj 20	unsigned character	REC 34	076
17820		Product Using Inj 21	unsigned character	REC 34	079
17821		Product Using Inj 22	unsigned character	REC 34	082
17822		Product Using Inj 23	unsigned character	REC 34	085
17823		Product Using Inj 24	unsigned character	REC 34	088
17824		Clean Line Deduct	unsigned character	REC 34	016
17825		Clean Line Product	unsigned character	REC 34	089
17826		Ratio/Sequential Delivery Mode	unsigned character	REC 34	090
17856	17857	Add Injector 9 Rate	IEEE single precision float	REC 34	042
17858	17859	Add Injector 10 Rate	IEEE single precision float	REC 34	045



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
17860	17861	Add Injector 11 Rate	IEEE single precision float	REC 34	048
17862	17863	Add Injector 12 Rate	IEEE single precision float	REC 34	051
17864	17865	Add Injector 13 Rate	IEEE single precision float	REC 34	054
17866	17867	Add Injector 14 Rate	IEEE single precision float	REC 34	057
17868	17869	Add Injector 15 Rate	IEEE single precision float	REC 34	060
17870	17871	Add Injector 16 Rate	IEEE single precision float	REC 34	063
17872	17873	Add Injector 17 Rate	IEEE single precision float	REC 34	066
17874	17875	Add Injector 18 Rate	IEEE single precision float	REC 34	069
17876	17877	Add Injector 19 Rate	IEEE single precision float	REC 34	072
17878	17879	Add Injector 20 Rate	IEEE single precision float	REC 34	075
17880	17881	Add Injector 21 Rate	IEEE single precision float	REC 34	078
17882	17883	Add Injector 22 Rate	IEEE single precision float	REC 34	081
17884	17885	Add Injector 23 Rate	IEEE single precision float	REC 34	084
17886	17887	Add Injector 24 Rate	IEEE single precision float	REC 34	087
17888	17889	1st Percentage	IEEE single precision float	REC 34	005
17890	17891	2nd Percentage	IEEE single precision float	REC 34	007
17892	17893	3rd Percentage	IEEE single precision float	REC 34	009
17894	17895	4th Percentage	IEEE single precision float	REC 34	011
17896	17897	5th Percentage	IEEE single precision float	REC 34	013
17898	17899	6th Percentage	IEEE single precision float	REC 34	015
17920	17927	Recipe Name	Text (char[16])	REC 35	002
17984	17985	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 35	017
17986	17987	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 35	020
17988	17989	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 35	023
17990	17991	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 35	026
17992	17993	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 35	029
17994	17995	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 35	032
17996	17997	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 35	035
17998	17999	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 35	038
18000	18001	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 35	041
18002	18003	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 35	044
18004	18005	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 35	047
18006	18007	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 35	050
18008	18009	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 35	053
18010	18011	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 35	056
18012	18013	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 35	059

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18014	18015	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 35	062
18016	18017	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 35	065
18018	18019	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 35	068
18020	18021	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 35	071
18022	18023	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 35	074
18024	18025	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 35	077
18026	18027	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 35	080
18028	18029	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 35	083
18030	18031	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 35	086
18032	18033	Add Injector 1 Rate	IEEE single precision float	REC 35	018
18034	18035	Add Injector 2 Rate	IEEE single precision float	REC 35	021
18036	18037	Add Injector 3 Rate	IEEE single precision float	REC 35	024
18038	18039	Add Injector 4 Rate	IEEE single precision float	REC 35	027
18040	18041	Add Injector 5 Rate	IEEE single precision float	REC 35	030
18042	18043	Add Injector 6 Rate	IEEE single precision float	REC 35	033
18044	18045	Add Injector 7 Rate	IEEE single precision float	REC 35	036
18046	18047	Add Injector 8 Rate	IEEE single precision float	REC 35	039
18048		Recipe Used	unsigned character	REC 35	001
18049		HM Class Product	unsigned character	REC 35	003
18050		1st Delivered	unsigned character	REC 35	004
18051		2nd Delivered	unsigned character	REC 35	006
18052		3rd Delivered	unsigned character	REC 35	008
18053		4th Delivered	unsigned character	REC 35	010
18054		5th Delivered	unsigned character	REC 35	012
18055		6th Delivered	unsigned character	REC 35	014
18056		Product Using Inj 1	unsigned character	REC 35	019
18057		Product Using Inj 2	unsigned character	REC 35	022
18058		Product Using Inj 3	unsigned character	REC 35	025
18059		Product Using Inj 4	unsigned character	REC 35	028
18060		Product Using Inj 5	unsigned character	REC 35	031
18061		Product Using Inj 6	unsigned character	REC 35	034
18062		Product Using Inj 7	unsigned character	REC 35	037
18063		Product Using Inj 8	unsigned character	REC 35	040
18064		Product Using Inj 9	unsigned character	REC 35	043
18065		Product Using Inj 10	unsigned character	REC 35	046

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18066		Product Using Inj 11	unsigned character	REC 35	049
18067		Product Using Inj 12	unsigned character	REC 35	052
18068		Product Using Inj 13	unsigned character	REC 35	055
18069		Product Using Inj 14	unsigned character	REC 35	058
18070		Product Using Inj 15	unsigned character	REC 35	061
18071		Product Using Inj 16	unsigned character	REC 35	064
18072		Product Using Inj 17	unsigned character	REC 35	067
18073		Product Using Inj 18	unsigned character	REC 35	070
18074		Product Using Inj 19	unsigned character	REC 35	073
18075		Product Using Inj 20	unsigned character	REC 35	076
18076		Product Using Inj 21	unsigned character	REC 35	079
18077		Product Using Inj 22	unsigned character	REC 35	082
18078		Product Using Inj 23	unsigned character	REC 35	085
18079		Product Using Inj 24	unsigned character	REC 35	088
18080		Clean Line Deduct	unsigned character	REC 35	016
18081		Clean Line Product	unsigned character	REC 35	089
18082		Ratio/Sequential Delivery Mode	unsigned character	REC 35	090
18112	18113	Add Injector 9 Rate	IEEE single precision float	REC 35	042
18114	18115	Add Injector 10 Rate	IEEE single precision float	REC 35	045
18116	18117	Add Injector 11 Rate	IEEE single precision float	REC 35	048
18118	18119	Add Injector 12 Rate	IEEE single precision float	REC 35	051
18120	18121	Add Injector 13 Rate	IEEE single precision float	REC 35	054
18122	18123	Add Injector 14 Rate	IEEE single precision float	REC 35	057
18124	18125	Add Injector 15 Rate	IEEE single precision float	REC 35	060
18126	18127	Add Injector 16 Rate	IEEE single precision float	REC 35	063
18128	18129	Add Injector 17 Rate	IEEE single precision float	REC 35	066
18130	18131	Add Injector 18 Rate	IEEE single precision float	REC 35	069
18132	18133	Add Injector 19 Rate	IEEE single precision float	REC 35	072
18134	18135	Add Injector 20 Rate	IEEE single precision float	REC 35	075
18136	18137	Add Injector 21 Rate	IEEE single precision float	REC 35	078
18138	18139	Add Injector 22 Rate	IEEE single precision float	REC 35	081
18140	18141	Add Injector 23 Rate	IEEE single precision float	REC 35	084
18142	18143	Add Injector 24 Rate	IEEE single precision float	REC 35	087
18144	18145	1st Percentage	IEEE single precision float	REC 35	005
18146	18147	2nd Percentage	IEEE single precision float	REC 35	007
18148	18149	3rd Percentage	IEEE single precision float	REC 35	009

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18150	18151	4th Percentage	IEEE single precision float	REC 35	011
18152	18153	5th Percentage	IEEE single precision float	REC 35	013
18154	18155	6th Percentage	IEEE single precision float	REC 35	015
18176	18183	Recipe Name	Text (char[16])	REC 36	002
18240	18241	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 36	017
18242	18243	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 36	020
18244	18245	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 36	023
18246	18247	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 36	026
18248	18249	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 36	029
18250	18251	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 36	032
18252	18253	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 36	035
18254	18255	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 36	038
18256	18257	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 36	041
18258	18259	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 36	044
18260	18261	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 36	047
18262	18263	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 36	050
18264	18265	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 36	053
18266	18267	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 36	056
18268	18269	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 36	059
18270	18271	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 36	062
18272	18273	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 36	065
18274	18275	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 36	068
18276	18277	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 36	071
18278	18279	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 36	074
18280	18281	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 36	077
18282	18283	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 36	080
18284	18285	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 36	083
18286	18287	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 36	086
18288	18289	Add Injector 1 Rate	IEEE single precision float	REC 36	018
18290	18291	Add Injector 2 Rate	IEEE single precision float	REC 36	021
18292	18293	Add Injector 3 Rate	IEEE single precision float	REC 36	024
18294	18295	Add Injector 4 Rate	IEEE single precision float	REC 36	027
18296	18297	Add Injector 5 Rate	IEEE single precision float	REC 36	030
18298	18299	Add Injector 6 Rate	IEEE single precision float	REC 36	033
18300	18301	Add Injector 7 Rate	IEEE single precision float	REC 36	036
18302	18303	Add Injector 8 Rate	IEEE single precision float	REC 36	039

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18304		Recipe Used	unsigned character	REC 36	001
18305		HM Class Product	unsigned character	REC 36	003
18306		1 <sup>st</sup> Delivered	unsigned character	REC 36	004
18307		2 <sup>nd</sup> Delivered	unsigned character	REC 36	006
18308		3 <sup>rd</sup> Delivered	unsigned character	REC 36	008
18309		4 <sup>th</sup> Delivered	unsigned character	REC 36	010
18310		5 <sup>th</sup> Delivered	unsigned character	REC 36	012
18311		6 <sup>th</sup> Delivered	unsigned character	REC 36	014
18312		Product Using Inj 1	unsigned character	REC 36	019
18313		Product Using Inj 2	unsigned character	REC 36	022
18314		Product Using Inj 3	unsigned character	REC 36	025
18315		Product Using Inj 4	unsigned character	REC 36	028
18316		Product Using Inj 5	unsigned character	REC 36	031
18317		Product Using Inj 6	unsigned character	REC 36	034
18318		Product Using Inj 7	unsigned character	REC 36	037
18319		Product Using Inj 8	unsigned character	REC 36	040
18320		Product Using Inj 9	unsigned character	REC 36	043
18321		Product Using Inj 10	unsigned character	REC 36	046
18322		Product Using Inj 11	unsigned character	REC 36	049
18323		Product Using Inj 12	unsigned character	REC 36	052
18324		Product Using Inj 13	unsigned character	REC 36	055
18325		Product Using Inj 14	unsigned character	REC 36	058
18326		Product Using Inj 15	unsigned character	REC 36	061
18327		Product Using Inj 16	unsigned character	REC 36	064
18328		Product Using Inj 17	unsigned character	REC 36	067
18329		Product Using Inj 18	unsigned character	REC 36	070
18330		Product Using Inj 19	unsigned character	REC 36	073
18331		Product Using Inj 20	unsigned character	REC 36	076
18332		Product Using Inj 21	unsigned character	REC 36	079
18333		Product Using Inj 22	unsigned character	REC 36	082
18334		Product Using Inj 23	unsigned character	REC 36	085
18335		Product Using Inj 24	unsigned character	REC 36	088
18336		Clean Line Deduct	unsigned character	REC 36	016
18337		Clean Line Product	unsigned character	REC 36	089
18338		Ratio/Sequential Delivery Mode	unsigned character	REC 36	090
18368	18369	Add Injector 9 Rate	IEEE single precision float	REC 36	042

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18370	18371	Add Injector 10 Rate	IEEE single precision float	REC 36	045
18372	18373	Add Injector 11 Rate	IEEE single precision float	REC 36	048
18374	18375	Add Injector 12 Rate	IEEE single precision float	REC 36	051
18376	18377	Add Injector 13 Rate	IEEE single precision float	REC 36	054
18378	18379	Add Injector 14 Rate	IEEE single precision float	REC 36	057
18380	18381	Add Injector 15 Rate	IEEE single precision float	REC 36	060
18382	18383	Add Injector 16 Rate	IEEE single precision float	REC 36	063
18384	18385	Add Injector 17 Rate	IEEE single precision float	REC 36	066
18386	18387	Add Injector 18 Rate	IEEE single precision float	REC 36	069
18388	18389	Add Injector 19 Rate	IEEE single precision float	REC 36	072
18390	18391	Add Injector 20 Rate	IEEE single precision float	REC 36	075
18392	18393	Add Injector 21 Rate	IEEE single precision float	REC 36	078
18394	18395	Add Injector 22 Rate	IEEE single precision float	REC 36	081
18396	18397	Add Injector 23 Rate	IEEE single precision float	REC 36	084
18398	18399	Add Injector 24 Rate	IEEE single precision float	REC 36	087
18400	18401	1st Percentage	IEEE single precision float	REC 36	005
18402	18403	2nd Percentage	IEEE single precision float	REC 36	007
18404	18405	3rd Percentage	IEEE single precision float	REC 36	009
18406	18407	4th Percentage	IEEE single precision float	REC 36	011
18408	18409	5th Percentage	IEEE single precision float	REC 36	013
18410	18411	6th Percentage	IEEE single precision float	REC 36	015
18432	18439	Recipe Name	Text (char[16])	REC 37	002
18496	18497	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 37	017
18498	18499	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 37	020
18500	18501	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 37	023
18502	18503	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 37	026
18504	18505	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 37	029
18506	18507	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 37	032
18508	18509	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 37	035
18510	18511	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 37	038
18512	18513	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 37	041
18514	18515	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 37	044
18516	18517	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 37	047
18518	18519	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 37	050
18520	18521	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 37	053
18522	18523	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 37	056

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18524	18525	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 37	059
18526	18527	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 37	062
18528	18529	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 37	065
18530	18531	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 37	068
18532	18533	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 37	071
18534	18535	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 37	074
18536	18537	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 37	077
18538	18539	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 37	080
18540	18541	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 37	083
18542	18543	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 37	086
18544	18545	Add Injector 1 Rate	IEEE single precision float	REC 37	018
18546	18547	Add Injector 2 Rate	IEEE single precision float	REC 37	021
18548	18549	Add Injector 3 Rate	IEEE single precision float	REC 37	024
18550	18551	Add Injector 4 Rate	IEEE single precision float	REC 37	027
18552	18553	Add Injector 5 Rate	IEEE single precision float	REC 37	030
18554	18555	Add Injector 6 Rate	IEEE single precision float	REC 37	033
18556	18557	Add Injector 7 Rate	IEEE single precision float	REC 37	036
18558	18559	Add Injector 8 Rate	IEEE single precision float	REC 37	039
18560		Recipe Used	unsigned character	REC 37	001
18561		HM Class Product	unsigned character	REC 37	003
18562		1 <sup>st</sup> Delivered	unsigned character	REC 37	004
18563		2 <sup>nd</sup> Delivered	unsigned character	REC 37	006
18564		3 <sup>rd</sup> Delivered	unsigned character	REC 37	008
18565		4 <sup>th</sup> Delivered	unsigned character	REC 37	010
18566		5 <sup>th</sup> Delivered	unsigned character	REC 37	012
18567		6 <sup>th</sup> Delivered	unsigned character	REC 37	014
18568		Product Using Inj 1	unsigned character	REC 37	019
18569		Product Using Inj 2	unsigned character	REC 37	022
18570		Product Using Inj 3	unsigned character	REC 37	025
18571		Product Using Inj 4	unsigned character	REC 37	028
18572		Product Using Inj 5	unsigned character	REC 37	031
18573		Product Using Inj 6	unsigned character	REC 37	034
18574		Product Using Inj 7	unsigned character	REC 37	037
18575		Product Using Inj 8	unsigned character	REC 37	040
18576		Product Using Inj 9	unsigned character	REC 37	043

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18577		Product Using Inj 10	unsigned character	REC 37	046
18578		Product Using Inj 11	unsigned character	REC 37	049
18579		Product Using Inj 12	unsigned character	REC 37	052
18580		Product Using Inj 13	unsigned character	REC 37	055
18581		Product Using Inj 14	unsigned character	REC 37	058
18582		Product Using Inj 15	unsigned character	REC 37	061
18583		Product Using Inj 16	unsigned character	REC 37	064
18584		Product Using Inj 17	unsigned character	REC 37	067
18585		Product Using Inj 18	unsigned character	REC 37	070
18586		Product Using Inj 19	unsigned character	REC 37	073
18587		Product Using Inj 20	unsigned character	REC 37	076
18588		Product Using Inj 21	unsigned character	REC 37	079
18589		Product Using Inj 22	unsigned character	REC 37	082
18590		Product Using Inj 23	unsigned character	REC 37	085
18591		Product Using Inj 24	unsigned character	REC 37	088
18592		Clean Line Deduct	unsigned character	REC 37	016
18593		Clean Line Product	unsigned character	REC 37	089
18594		Ratio/Sequential Delivery Mode	unsigned character	REC 37	090
18624	18625	Add Injector 9 Rate	IEEE single precision float	REC 37	042
18626	18627	Add Injector 10 Rate	IEEE single precision float	REC 37	045
18628	18629	Add Injector 11 Rate	IEEE single precision float	REC 37	048
18630	18631	Add Injector 12 Rate	IEEE single precision float	REC 37	051
18632	18633	Add Injector 13 Rate	IEEE single precision float	REC 37	054
18634	18635	Add Injector 14 Rate	IEEE single precision float	REC 37	057
18636	18637	Add Injector 15 Rate	IEEE single precision float	REC 37	060
18638	18639	Add Injector 16 Rate	IEEE single precision float	REC 37	063
18640	18641	Add Injector 17 Rate	IEEE single precision float	REC 37	066
18642	18643	Add Injector 18 Rate	IEEE single precision float	REC 37	069
18644	18645	Add Injector 19 Rate	IEEE single precision float	REC 37	072
18646	18647	Add Injector 20 Rate	IEEE single precision float	REC 37	075
18648	18649	Add Injector 21 Rate	IEEE single precision float	REC 37	078
18650	18651	Add Injector 22 Rate	IEEE single precision float	REC 37	081
18652	18653	Add Injector 23 Rate	IEEE single precision float	REC 37	084
18654	18655	Add Injector 24 Rate	IEEE single precision float	REC 37	087
18656	18657	1st Percentage	IEEE single precision float	REC 37	005
18658	18659	2nd Percentage	IEEE single precision float	REC 37	007



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18660	18661	3rd Percentage	IEEE single precision float	REC 37	009
18662	18663	4 <sup>th</sup> Percentage	IEEE single precision float	REC 37	011
18664	18665	5 <sup>th</sup> Percentage	IEEE single precision float	REC 37	013
18666	18667	6 <sup>th</sup> Percentage	IEEE single precision float	REC 37	015
18688	18695	Recipe Name	Text (char[16])	REC 38	002
18752	18753	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 38	017
18754	18755	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 38	020
18756	18757	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 38	023
18758	18759	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 38	026
18760	18761	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 38	029
18762	18763	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 38	032
18764	18765	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 38	035
18766	18767	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 38	038
18768	18769	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 38	041
18770	18771	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 38	044
18772	18773	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 38	047
18774	18775	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 38	050
18776	18777	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 38	053
18778	18779	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 38	056
18780	18781	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 38	059
18782	18783	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 38	062
18784	18785	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 38	065
18786	18787	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 38	068
18788	18789	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 38	071
18790	18791	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 38	074
18792	18793	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 38	077
18794	18795	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 38	080
18796	18797	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 38	083
18798	18799	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 38	086
18800	18801	Add Injector 1 Rate	IEEE single precision float	REC 38	018
18802	18803	Add Injector 2 Rate	IEEE single precision float	REC 38	021
18804	18805	Add Injector 3 Rate	IEEE single precision float	REC 38	024
18806	18807	Add Injector 4 Rate	IEEE single precision float	REC 38	027
18808	18809	Add Injector 5 Rate	IEEE single precision float	REC 38	030
18810	18811	Add Injector 6 Rate	IEEE single precision float	REC 38	033
18812	18813	Add Injector 7 Rate	IEEE single precision float	REC 38	036

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18814	18815	Add Injector 8 Rate	IEEE single precision float	REC 38	039
18816		Recipe Used	unsigned character	REC 38	001
18817		HM Class Product	unsigned character	REC 38	003
18818		1st Delivered	unsigned character	REC 38	004
18819		2nd Delivered	unsigned character	REC 38	006
18820		3rd Delivered	unsigned character	REC 38	008
18821		4th Delivered	unsigned character	REC 38	010
18822		5th Delivered	unsigned character	REC 38	012
18823		6th Delivered	unsigned character	REC 38	014
18824		Product Using Inj 1	unsigned character	REC 38	019
18825		Product Using Inj 2	unsigned character	REC 38	022
18826		Product Using Inj 3	unsigned character	REC 38	025
18827		Product Using Inj 4	unsigned character	REC 38	028
18828		Product Using Inj 5	unsigned character	REC 38	031
18829		Product Using Inj 6	unsigned character	REC 38	034
18830		Product Using Inj 7	unsigned character	REC 38	037
18831		Product Using Inj 8	unsigned character	REC 38	040
18832		Product Using Inj 9	unsigned character	REC 38	043
18833		Product Using Inj 10	unsigned character	REC 38	046
18834		Product Using Inj 11	unsigned character	REC 38	049
18835		Product Using Inj 12	unsigned character	REC 38	052
18836		Product Using Inj 13	unsigned character	REC 38	055
18837		Product Using Inj 14	unsigned character	REC 38	058
18838		Product Using Inj 15	unsigned character	REC 38	061
18839		Product Using Inj 16	unsigned character	REC 38	064
18840		Product Using Inj 17	unsigned character	REC 38	067
18841		Product Using Inj 18	unsigned character	REC 38	070
18842		Product Using Inj 19	unsigned character	REC 38	073
18843		Product Using Inj 20	unsigned character	REC 38	076
18844		Product Using Inj 21	unsigned character	REC 38	079
18845		Product Using Inj 22	unsigned character	REC 38	082
18846		Product Using Inj 23	unsigned character	REC 38	085
18847		Product Using Inj 24	unsigned character	REC 38	088
18848		Clean Line Deduct	unsigned character	REC 38	016
18849		Clean Line Product	unsigned character	REC 38	089
18850		Ratio/Sequential Delivery Mode	unsigned character	REC 38	090

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
18880	18881	Add Injector 9 Rate	IEEE single precision float	REC 38	042
18882	18883	Add Injector 10 Rate	IEEE single precision float	REC 38	045
18884	18885	Add Injector 11 Rate	IEEE single precision float	REC 38	048
18886	18887	Add Injector 12 Rate	IEEE single precision float	REC 38	051
18888	18889	Add Injector 13 Rate	IEEE single precision float	REC 38	054
18890	18891	Add Injector 14 Rate	IEEE single precision float	REC 38	057
18892	18893	Add Injector 15 Rate	IEEE single precision float	REC 38	060
18894	18895	Add Injector 16 Rate	IEEE single precision float	REC 38	063
18896	18897	Add Injector 17 Rate	IEEE single precision float	REC 38	066
18898	18899	Add Injector 18 Rate	IEEE single precision float	REC 38	069
18900	18901	Add Injector 19 Rate	IEEE single precision float	REC 38	072
18902	18903	Add Injector 20 Rate	IEEE single precision float	REC 38	075
18904	18905	Add Injector 21 Rate	IEEE single precision float	REC 38	078
18906	18907	Add Injector 22 Rate	IEEE single precision float	REC 38	081
18908	18909	Add Injector 23 Rate	IEEE single precision float	REC 38	084
18910	18911	Add Injector 24 Rate	IEEE single precision float	REC 38	087
18912	18913	1st Percentage	IEEE single precision float	REC 38	005
18914	18915	2nd Percentage	IEEE single precision float	REC 38	007
18916	18917	3rd Percentage	IEEE single precision float	REC 38	009
18918	18919	4th Percentage	IEEE single precision float	REC 38	011
18920	18921	5th Percentage	IEEE single precision float	REC 38	013
18922	18923	6th Percentage	IEEE single precision float	REC 38	015
18944	18951	Recipe Name	Text (char[16])	REC 39	002
19008	19009	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 39	017
19010	19011	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 39	020
19012	19013	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 39	023
19014	19015	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 39	026
19016	19017	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 39	029
19018	19019	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 39	032
19020	19021	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 39	035
19022	19023	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 39	038
19024	19025	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 39	041
19026	19027	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 39	044
19028	19029	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 39	047
19030	19031	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 39	050
19032	19033	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 39	053

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19034	19035	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 39	056
19036	19037	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 39	059
19038	19039	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 39	062
19040	19041	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 39	065
19042	19043	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 39	068
19044	19045	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 39	071
19046	19047	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 39	074
19048	19049	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 39	077
19050	19051	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 39	080
19052	19053	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 39	083
19054	19055	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 39	086
19056	19057	Add Injector 1 Rate	IEEE single precision float	REC 39	018
19058	19059	Add Injector 2 Rate	IEEE single precision float	REC 39	021
19060	19061	Add Injector 3 Rate	IEEE single precision float	REC 39	024
19062	19063	Add Injector 4 Rate	IEEE single precision float	REC 39	027
19064	19065	Add Injector 5 Rate	IEEE single precision float	REC 39	030
19066	19067	Add Injector 6 Rate	IEEE single precision float	REC 39	033
19068	19069	Add Injector 7 Rate	IEEE single precision float	REC 39	036
19070	19071	Add Injector 8 Rate	IEEE single precision float	REC 39	039
19072		Recipe Used	unsigned character	REC 39	001
19073		HM Class Product	unsigned character	REC 39	003
19074		1 <sup>st</sup> Delivered	unsigned character	REC 39	004
19075		2 <sup>nd</sup> Delivered	unsigned character	REC 39	006
19076		3 <sup>rd</sup> Delivered	unsigned character	REC 39	008
19077		4 <sup>th</sup> Delivered	unsigned character	REC 39	010
19078		5 <sup>th</sup> Delivered	unsigned character	REC 39	012
19079		6 <sup>th</sup> Delivered	unsigned character	REC 39	014
19080		Product Using Inj 1	unsigned character	REC 39	019
19081		Product Using Inj 2	unsigned character	REC 39	022
19082		Product Using Inj 3	unsigned character	REC 39	025
19083		Product Using Inj 4	unsigned character	REC 39	028
19084		Product Using Inj 5	unsigned character	REC 39	031
19085		Product Using Inj 6	unsigned character	REC 39	034
19086		Product Using Inj 7	unsigned character	REC 39	037
19087		Product Using Inj 8	unsigned character	REC 39	040

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19088		Product Using Inj 9	unsigned character	REC 39	043
19089		Product Using Inj 10	unsigned character	REC 39	046
19090		Product Using Inj 11	unsigned character	REC 39	049
19091		Product Using Inj 12	unsigned character	REC 39	052
19092		Product Using Inj 13	unsigned character	REC 39	055
19093		Product Using Inj 14	unsigned character	REC 39	058
19094		Product Using Inj 15	unsigned character	REC 39	061
19095		Product Using Inj 16	unsigned character	REC 39	064
19096		Product Using Inj 17	unsigned character	REC 39	067
19097		Product Using Inj 18	unsigned character	REC 39	070
19098		Product Using Inj 19	unsigned character	REC 39	073
19099		Product Using Inj 20	unsigned character	REC 39	076
19100		Product Using Inj 21	unsigned character	REC 39	079
19101		Product Using Inj 22	unsigned character	REC 39	082
19102		Product Using Inj 23	unsigned character	REC 39	085
19103		Product Using Inj 24	unsigned character	REC 39	088
19104		Clean Line Deduct	unsigned character	REC 39	016
19105		Clean Line Product	unsigned character	REC 39	089
19106		Ratio/Sequential Delivery Mode	unsigned character	REC 39	090
19136	19137	Add Injector 9 Rate	IEEE single precision float	REC 39	042
19138	19139	Add Injector 10 Rate	IEEE single precision float	REC 39	045
19140	19141	Add Injector 11 Rate	IEEE single precision float	REC 39	048
19142	19143	Add Injector 12 Rate	IEEE single precision float	REC 39	051
19144	19145	Add Injector 13 Rate	IEEE single precision float	REC 39	054
19146	19147	Add Injector 14 Rate	IEEE single precision float	REC 39	057
19148	19149	Add Injector 15 Rate	IEEE single precision float	REC 39	060
19150	19151	Add Injector 16 Rate	IEEE single precision float	REC 39	063
19152	19153	Add Injector 17 Rate	IEEE single precision float	REC 39	066
19154	19155	Add Injector 18 Rate	IEEE single precision float	REC 39	069
19156	19157	Add Injector 19 Rate	IEEE single precision float	REC 39	072
19158	19159	Add Injector 20 Rate	IEEE single precision float	REC 39	075
19160	19161	Add Injector 21 Rate	IEEE single precision float	REC 39	078
19162	19163	Add Injector 22 Rate	IEEE single precision float	REC 39	081
19164	19165	Add Injector 23 Rate	IEEE single precision float	REC 39	084
19166	19167	Add Injector 24 Rate	IEEE single precision float	REC 39	087
19168	19169	1st Percentage	IEEE single precision float	REC 39	005

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19170	19171	2nd Percentage	IEEE single precision float	REC 39	007
19172	19173	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 39	009
19174	19175	4 <sup>th</sup> Percentage	IEEE single precision float	REC 39	011
19176	19177	5 <sup>th</sup> Percentage	IEEE single precision float	REC 39	013
19178	19179	6 <sup>th</sup> Percentage	IEEE single precision float	REC 39	015
19200	19207	Recipe Name	Text (char[16])	REC 40	002
19264	19265	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 40	017
19266	19267	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 40	020
19268	19269	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 40	023
19270	19271	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 40	026
19272	19273	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 40	029
19274	19275	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 40	032
19276	19277	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 40	035
19278	19279	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 40	038
19280	19281	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 40	041
19282	19283	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 40	044
19284	19285	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 40	047
19286	19287	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 40	050
19288	19289	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 40	053
19290	19291	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 40	056
19292	19293	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 40	059
19294	19295	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 40	062
19296	19297	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 40	065
19298	19299	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 40	068
19300	19301	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 40	071
19302	19303	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 40	074
19304	19305	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 40	077
19306	19307	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 40	080
19308	19309	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 40	083
19310	19311	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 40	086
19312	19313	Add Injector 1 Rate	IEEE single precision float	REC 40	018
19314	19315	Add Injector 2 Rate	IEEE single precision float	REC 40	021
19316	19317	Add Injector 3 Rate	IEEE single precision float	REC 40	024
19318	19319	Add Injector 4 Rate	IEEE single precision float	REC 40	027
19320	19321	Add Injector 5 Rate	IEEE single precision float	REC 40	030
19322	19323	Add Injector 6 Rate	IEEE single precision float	REC 40	033

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19324	19325	Add Injector 7 Rate	IEEE single precision float	REC 40	036
19326	19327	Add Injector 8 Rate	IEEE single precision float	REC 40	039
19328		Recipe Used	unsigned character	REC 40	001
19329		HM Class Product	unsigned character	REC 40	003
19330		1 <sup>st</sup> Delivered	unsigned character	REC 40	004
19331		2 <sup>nd</sup> Delivered	unsigned character	REC 40	006
19332		3 <sup>rd</sup> Delivered	unsigned character	REC 40	008
19333		4 <sup>th</sup> Delivered	unsigned character	REC 40	010
19334		5 <sup>th</sup> Delivered	unsigned character	REC 40	012
19335		6 <sup>th</sup> Delivered	unsigned character	REC 40	014
19336		Product Using Inj 1	unsigned character	REC 40	019
19337		Product Using Inj 2	unsigned character	REC 40	022
19338		Product Using Inj 3	unsigned character	REC 40	025
19339		Product Using Inj 4	unsigned character	REC 40	028
19340		Product Using Inj 5	unsigned character	REC 40	031
19341		Product Using Inj 6	unsigned character	REC 40	034
19342		Product Using Inj 7	unsigned character	REC 40	037
19343		Product Using Inj 8	unsigned character	REC 40	040
19344		Product Using Inj 9	unsigned character	REC 40	043
19345		Product Using Inj 10	unsigned character	REC 40	046
19346		Product Using Inj 11	unsigned character	REC 40	049
19347		Product Using Inj 12	unsigned character	REC 40	052
19348		Product Using Inj 13	unsigned character	REC 40	055
19349		Product Using Inj 14	unsigned character	REC 40	058
19350		Product Using Inj 15	unsigned character	REC 40	061
19351		Product Using Inj 16	unsigned character	REC 40	064
19352		Product Using Inj 17	unsigned character	REC 40	067
19353		Product Using Inj 18	unsigned character	REC 40	070
19354		Product Using Inj 19	unsigned character	REC 40	073
19355		Product Using Inj 20	unsigned character	REC 40	076
19356		Product Using Inj 21	unsigned character	REC 40	079
19357		Product Using Inj 22	unsigned character	REC 40	082
19358		Product Using Inj 23	unsigned character	REC 40	085
19359		Product Using Inj 24	unsigned character	REC 40	088
19360		Clean Line Deduct	unsigned character	REC 40	016
19361		Clean Line Product	unsigned character	REC 40	089

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19362		Ratio/Sequential Delivery Mode	unsigned character	REC 40	090
19392	19393	Add Injector 9 Rate	IEEE single precision float	REC 40	042
19394	19395	Add Injector 10 Rate	IEEE single precision float	REC 40	045
19396	19397	Add Injector 11 Rate	IEEE single precision float	REC 40	048
19398	19399	Add Injector 12 Rate	IEEE single precision float	REC 40	051
19400	19401	Add Injector 13 Rate	IEEE single precision float	REC 40	054
19402	19403	Add Injector 14 Rate	IEEE single precision float	REC 40	057
19404	19405	Add Injector 15 Rate	IEEE single precision float	REC 40	060
19406	19407	Add Injector 16 Rate	IEEE single precision float	REC 40	063
19408	19409	Add Injector 17 Rate	IEEE single precision float	REC 40	066
19410	19411	Add Injector 18 Rate	IEEE single precision float	REC 40	069
19412	19413	Add Injector 19 Rate	IEEE single precision float	REC 40	072
19414	19415	Add Injector 20 Rate	IEEE single precision float	REC 40	075
19416	19417	Add Injector 21 Rate	IEEE single precision float	REC 40	078
19418	19419	Add Injector 22 Rate	IEEE single precision float	REC 40	081
19420	19421	Add Injector 23 Rate	IEEE single precision float	REC 40	084
19422	19423	Add Injector 24 Rate	IEEE single precision float	REC 40	087
19424	19425	1st Percentage	IEEE single precision float	REC 40	005
19426	19427	2nd Percentage	IEEE single precision float	REC 40	007
19428	19429	3rd Percentage	IEEE single precision float	REC 40	009
19430	19431	4th Percentage	IEEE single precision float	REC 40	011
19432	19433	5th Percentage	IEEE single precision float	REC 40	013
19434	19435	6th Percentage	IEEE single precision float	REC 40	015
19456	19463	Recipe Name	Text (char[16])	REC 41	002
19520	19521	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 41	017
19522	19523	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 41	020
19524	19525	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 41	023
19526	19527	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 41	026
19528	19529	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 41	029
19530	19531	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 41	032
19532	19533	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 41	035
19534	19535	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 41	038
19536	19537	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 41	041
19538	19539	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 41	044
19540	19541	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 41	047
19542	19543	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 41	050



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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19544	19545	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 41	053
19546	19547	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 41	056
19548	19549	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 41	059
19550	19551	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 41	062
19552	19553	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 41	065
19554	19555	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 41	068
19556	19557	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 41	071
19558	19559	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 41	074
19560	19561	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 41	077
19562	19563	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 41	080
19564	19565	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 41	083
19566	19567	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 41	086
19568	19569	Add Injector 1 Rate	IEEE single precision float	REC 41	018
19570	19571	Add Injector 2 Rate	IEEE single precision float	REC 41	021
19572	19573	Add Injector 3 Rate	IEEE single precision float	REC 41	024
19574	19575	Add Injector 4 Rate	IEEE single precision float	REC 41	027
19576	19577	Add Injector 5 Rate	IEEE single precision float	REC 41	030
19578	19579	Add Injector 6 Rate	IEEE single precision float	REC 41	033
19580	19581	Add Injector 7 Rate	IEEE single precision float	REC 41	036
19582	19583	Add Injector 8 Rate	IEEE single precision float	REC 41	039
19584		Recipe Used	unsigned character	REC 41	001
19585		HM Class Product	unsigned character	REC 41	003
19586		1 <sup>st</sup> Delivered	unsigned character	REC 41	004
19587		2 <sup>nd</sup> Delivered	unsigned character	REC 41	006
19588		3 <sup>rd</sup> Delivered	unsigned character	REC 41	008
19589		4 <sup>th</sup> Delivered	unsigned character	REC 41	010
19590		5 <sup>th</sup> Delivered	unsigned character	REC 41	012
19591		6 <sup>th</sup> Delivered	unsigned character	REC 41	014
19592		Product Using Inj 1	unsigned character	REC 41	019
19593		Product Using Inj 2	unsigned character	REC 41	022
19594		Product Using Inj 3	unsigned character	REC 41	025
19595		Product Using Inj 4	unsigned character	REC 41	028
19596		Product Using Inj 5	unsigned character	REC 41	031
19597		Product Using Inj 6	unsigned character	REC 41	034
19598		Product Using Inj 7	unsigned character	REC 41	037

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19599		Product Using Inj 8	unsigned character	REC 41	040
19600		Product Using Inj 9	unsigned character	REC 41	043
19601		Product Using Inj 10	unsigned character	REC 41	046
19602		Product Using Inj 11	unsigned character	REC 41	049
19603		Product Using Inj 12	unsigned character	REC 41	052
19604		Product Using Inj 13	unsigned character	REC 41	055
19605		Product Using Inj 14	unsigned character	REC 41	058
19606		Product Using Inj 15	unsigned character	REC 41	061
19607		Product Using Inj 16	unsigned character	REC 41	064
19608		Product Using Inj 17	unsigned character	REC 41	067
19609		Product Using Inj 18	unsigned character	REC 41	070
19610		Product Using Inj 19	unsigned character	REC 41	073
19611		Product Using Inj 20	unsigned character	REC 41	076
19612		Product Using Inj 21	unsigned character	REC 41	079
19613		Product Using Inj 22	unsigned character	REC 41	082
19614		Product Using Inj 23	unsigned character	REC 41	085
19615		Product Using Inj 24	unsigned character	REC 41	088
19616		Clean Line Deduct	unsigned character	REC 41	016
19617		Clean Line Product	unsigned character	REC 41	089
19618		Ratio/Sequential Delivery Mode	unsigned character	REC 41	090
19648	19649	Add Injector 9 Rate	IEEE single precision float	REC 41	042
19650	19651	Add Injector 10 Rate	IEEE single precision float	REC 41	045
19652	19653	Add Injector 11 Rate	IEEE single precision float	REC 41	048
19654	19655	Add Injector 12 Rate	IEEE single precision float	REC 41	051
19656	19657	Add Injector 13 Rate	IEEE single precision float	REC 41	054
19658	19659	Add Injector 14 Rate	IEEE single precision float	REC 41	057
19660	19661	Add Injector 15 Rate	IEEE single precision float	REC 41	060
19662	19663	Add Injector 16 Rate	IEEE single precision float	REC 41	063
19664	19665	Add Injector 17 Rate	IEEE single precision float	REC 41	066
19666	19667	Add Injector 18 Rate	IEEE single precision float	REC 41	069
19668	19669	Add Injector 19 Rate	IEEE single precision float	REC 41	072
19670	19671	Add Injector 20 Rate	IEEE single precision float	REC 41	075
19672	19673	Add Injector 21 Rate	IEEE single precision float	REC 41	078
19674	19675	Add Injector 22 Rate	IEEE single precision float	REC 41	081
19676	19677	Add Injector 23 Rate	IEEE single precision float	REC 41	084
19678	19679	Add Injector 24 Rate	IEEE single precision float	REC 41	087

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19680	19681	1st Percentage	IEEE single precision float	REC 41	005
19682	19683	2nd Percentage	IEEE single precision float	REC 41	007
19684	19685	3rd Percentage	IEEE single precision float	REC 41	009
19686	19687	4th Percentage	IEEE single precision float	REC 41	011
19688	19689	5th Percentage	IEEE single precision float	REC 41	013
19690	19691	6th Percentage	IEEE single precision float	REC 41	015
19712	19719	Recipe Name	Text (char[16])	REC 42	002
19776	19777	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 42	017
19778	19779	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 42	020
19780	19781	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 42	023
19782	19783	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 42	026
19784	19785	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 42	029
19786	19787	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 42	032
19788	19789	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 42	035
19790	19791	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 42	038
19792	19793	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 42	041
19794	19795	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 42	044
19796	19797	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 42	047
19798	19799	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 42	050
19800	19801	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 42	053
19802	19803	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 42	056
19804	19805	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 42	059
19806	19807	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 42	062
19808	19809	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 42	065
19810	19811	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 42	068
19812	19813	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 42	071
19814	19815	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 42	074
19816	19817	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 42	077
19818	19819	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 42	080
19820	19821	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 42	083
19822	19823	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 42	086
19824	19825	Add Injector 1 Rate	IEEE single precision float	REC 42	018
19826	19827	Add Injector 2 Rate	IEEE single precision float	REC 42	021
19828	19829	Add Injector 3 Rate	IEEE single precision float	REC 42	024
19830	19831	Add Injector 4 Rate	IEEE single precision float	REC 42	027
19832	19833	Add Injector 5 Rate	IEEE single precision float	REC 42	030

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19834	19835	Add Injector 6 Rate	IEEE single precision float	REC 42	033
19836	19837	Add Injector 7 Rate	IEEE single precision float	REC 42	036
19838	19839	Add Injector 8 Rate	IEEE single precision float	REC 42	039
19840		Recipe Used	unsigned character	REC 42	001
19841		HM Class Product	unsigned character	REC 42	003
19842		1 <sup>st</sup> Delivered	unsigned character	REC 42	004
19843		2 <sup>nd</sup> Delivered	unsigned character	REC 42	006
19844		3 <sup>rd</sup> Delivered	unsigned character	REC 42	008
19845		4 <sup>th</sup> Delivered	unsigned character	REC 42	010
19846		5 <sup>th</sup> Delivered	unsigned character	REC 42	012
19847		6 <sup>th</sup> Delivered	unsigned character	REC 42	014
19848		Product Using Inj 1	unsigned character	REC 42	019
19849		Product Using Inj 2	unsigned character	REC 42	022
19850		Product Using Inj 3	unsigned character	REC 42	025
19851		Product Using Inj 4	unsigned character	REC 42	028
19852		Product Using Inj 5	unsigned character	REC 42	031
19853		Product Using Inj 6	unsigned character	REC 42	034
19854		Product Using Inj 7	unsigned character	REC 42	037
19855		Product Using Inj 8	unsigned character	REC 42	040
19856		Product Using Inj 9	unsigned character	REC 42	043
19857		Product Using Inj 10	unsigned character	REC 42	046
19858		Product Using Inj 11	unsigned character	REC 42	049
19859		Product Using Inj 12	unsigned character	REC 42	052
19860		Product Using Inj 13	unsigned character	REC 42	055
19861		Product Using Inj 14	unsigned character	REC 42	058
19862		Product Using Inj 15	unsigned character	REC 42	061
19863		Product Using Inj 16	unsigned character	REC 42	064
19864		Product Using Inj 17	unsigned character	REC 42	067
19865		Product Using Inj 18	unsigned character	REC 42	070
19866		Product Using Inj 19	unsigned character	REC 42	073
19867		Product Using Inj 20	unsigned character	REC 42	076
19868		Product Using Inj 21	unsigned character	REC 42	079
19869		Product Using Inj 22	unsigned character	REC 42	082
19870		Product Using Inj 23	unsigned character	REC 42	085
19871		Product Using Inj 24	unsigned character	REC 42	088

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
19872		Clean Line Deduct	unsigned character	REC 42	016
19873		Clean Line Product	unsigned character	REC 42	089
19874		Ratio/Sequential Delivery Mode	unsigned character	REC 42	090
19904	19905	Add Injector 9 Rate	IEEE single precision float	REC 42	042
19906	19907	Add Injector 10 Rate	IEEE single precision float	REC 42	045
19908	19909	Add Injector 11 Rate	IEEE single precision float	REC 42	048
19910	19911	Add Injector 12 Rate	IEEE single precision float	REC 42	051
19912	19913	Add Injector 13 Rate	IEEE single precision float	REC 42	054
19914	19915	Add Injector 14 Rate	IEEE single precision float	REC 42	057
19916	19917	Add Injector 15 Rate	IEEE single precision float	REC 42	060
19918	19919	Add Injector 16 Rate	IEEE single precision float	REC 42	063
19920	19921	Add Injector 17 Rate	IEEE single precision float	REC 42	066
19922	19923	Add Injector 18 Rate	IEEE single precision float	REC 42	069
19924	19925	Add Injector 19 Rate	IEEE single precision float	REC 42	072
19926	19927	Add Injector 20 Rate	IEEE single precision float	REC 42	075
19928	19929	Add Injector 21 Rate	IEEE single precision float	REC 42	078
19930	19931	Add Injector 22 Rate	IEEE single precision float	REC 42	081
19932	19933	Add Injector 23 Rate	IEEE single precision float	REC 42	084
19934	19935	Add Injector 24 Rate	IEEE single precision float	REC 42	087
19936	19937	1st Percentage	IEEE single precision float	REC 42	005
19938	19939	2nd Percentage	IEEE single precision float	REC 42	007
19940	19941	3rd Percentage	IEEE single precision float	REC 42	009
19942	19943	4th Percentage	IEEE single precision float	REC 42	011
19944	19945	5th Percentage	IEEE single precision float	REC 42	013
19946	19947	6th Percentage	IEEE single precision float	REC 42	015
19968	19975	Recipe Name	Text (char[16])	REC 43	002
20032	20033	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 43	017
20034	20035	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 43	020
20036	20037	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 43	023
20038	20039	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 43	026
20040	20041	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 43	029
20042	20043	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 43	032
20044	20045	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 43	035
20046	20047	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 43	038
20048	20049	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 43	041
20050	20051	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 43	044

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20052	20053	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 43	047
20054	20055	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 43	050
20056	20057	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 43	053
20058	20059	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 43	056
20060	20061	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 43	059
20062	20063	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 43	062
20064	20065	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 43	065
20066	20067	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 43	068
20068	20069	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 43	071
20070	20071	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 43	074
20072	20073	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 43	077
20074	20075	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 43	080
20076	20077	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 43	083
20078	20079	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 43	086
20080	20081	Add Injector 1 Rate	IEEE single precision float	REC 43	018
20082	20083	Add Injector 2 Rate	IEEE single precision float	REC 43	021
20084	20085	Add Injector 3 Rate	IEEE single precision float	REC 43	024
20086	20087	Add Injector 4 Rate	IEEE single precision float	REC 43	027
20088	20089	Add Injector 5 Rate	IEEE single precision float	REC 43	030
20090	20091	Add Injector 6 Rate	IEEE single precision float	REC 43	033
20092	20093	Add Injector 7 Rate	IEEE single precision float	REC 43	036
20094	20095	Add Injector 8 Rate	IEEE single precision float	REC 43	039
20096		Recipe Used	unsigned character	REC 43	001
20097		HM Class Product	unsigned character	REC 43	003
20098		1 <sup>st</sup> Delivered	unsigned character	REC 43	004
20099		2 <sup>nd</sup> Delivered	unsigned character	REC 43	006
20100		3 <sup>rd</sup> Delivered	unsigned character	REC 43	008
20101		4 <sup>th</sup> Delivered	unsigned character	REC 43	010
20102		5 <sup>th</sup> Delivered	unsigned character	REC 43	012
20103		6 <sup>th</sup> Delivered	unsigned character	REC 43	014
20104		Product Using Inj 1	unsigned character	REC 43	019
20105		Product Using Inj 2	unsigned character	REC 43	022
20106		Product Using Inj 3	unsigned character	REC 43	025
20107		Product Using Inj 4	unsigned character	REC 43	028
20108		Product Using Inj 5	unsigned character	REC 43	031
20109		Product Using Inj 6	unsigned character	REC 43	034

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20110		Product Using Inj 7	unsigned character	REC 43	037
20111		Product Using Inj 8	unsigned character	REC 43	040
20112		Product Using Inj 9	unsigned character	REC 43	043
20113		Product Using Inj 10	unsigned character	REC 43	046
20114		Product Using Inj 11	unsigned character	REC 43	049
20115		Product Using Inj 12	unsigned character	REC 43	052
20116		Product Using Inj 13	unsigned character	REC 43	055
20117		Product Using Inj 14	unsigned character	REC 43	058
20118		Product Using Inj 15	unsigned character	REC 43	061
20119		Product Using Inj 16	unsigned character	REC 43	064
20120		Product Using Inj 17	unsigned character	REC 43	067
20121		Product Using Inj 18	unsigned character	REC 43	070
20122		Product Using Inj 19	unsigned character	REC 43	073
20123		Product Using Inj 20	unsigned character	REC 43	076
20124		Product Using Inj 21	unsigned character	REC 43	079
20125		Product Using Inj 22	unsigned character	REC 43	082
20126		Product Using Inj 23	unsigned character	REC 43	085
20127		Product Using Inj 24	unsigned character	REC 43	088
20128		Clean Line Deduct	unsigned character	REC 43	016
20129		Clean Line Product	unsigned character	REC 43	089
20130		Ratio/Sequential Delivery Mode	unsigned character	REC 43	090
20160	20161	Add Injector 9 Rate	IEEE single precision float	REC 43	042
20162	20163	Add Injector 10 Rate	IEEE single precision float	REC 43	045
20164	20165	Add Injector 11 Rate	IEEE single precision float	REC 43	048
20166	20167	Add Injector 12 Rate	IEEE single precision float	REC 43	051
20168	20169	Add Injector 13 Rate	IEEE single precision float	REC 43	054
20170	20171	Add Injector 14 Rate	IEEE single precision float	REC 43	057
20172	20173	Add Injector 15 Rate	IEEE single precision float	REC 43	060
20174	20175	Add Injector 16 Rate	IEEE single precision float	REC 43	063
20176	20177	Add Injector 17 Rate	IEEE single precision float	REC 43	066
20178	20179	Add Injector 18 Rate	IEEE single precision float	REC 43	069
20180	20181	Add Injector 19 Rate	IEEE single precision float	REC 43	072
20182	20183	Add Injector 20 Rate	IEEE single precision float	REC 43	075
20184	20185	Add Injector 21 Rate	IEEE single precision float	REC 43	078
20186	20187	Add Injector 22 Rate	IEEE single precision float	REC 43	081
20188	20189	Add Injector 23 Rate	IEEE single precision float	REC 43	084

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20190	20191	Add Injector 24 Rate	IEEE single precision float	REC 43	087
20192	20193	1st Percentage	IEEE single precision float	REC 43	005
20194	20195	2nd Percentage	IEEE single precision float	REC 43	007
20196	20197	3rd Percentage	IEEE single precision float	REC 43	009
20198	20199	4th Percentage	IEEE single precision float	REC 43	011
20200	20201	5th Percentage	IEEE single precision float	REC 43	013
20202	20203	6th Percentage	IEEE single precision float	REC 43	015
20224	20231	Recipe Name	Text (char[16])	REC 44	002
20288	20289	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 44	017
20290	20291	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 44	020
20292	20293	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 44	023
20294	20295	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 44	026
20296	20297	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 44	029
20298	20299	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 44	032
20300	20301	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 44	035
20302	20303	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 44	038
20304	20305	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 44	041
20306	20307	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 44	044
20308	20309	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 44	047
20310	20311	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 44	050
20312	20313	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 44	053
20314	20315	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 44	056
20316	20317	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 44	059
20318	20319	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 44	062
20320	20321	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 44	065
20322	20323	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 44	068
20324	20325	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 44	071
20326	20327	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 44	074
20328	20329	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 44	077
20330	20331	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 44	080
20332	20333	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 44	083
20334	20335	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 44	086
20336	20337	Add Injector 1 Rate	IEEE single precision float	REC 44	018
20338	20339	Add Injector 2 Rate	IEEE single precision float	REC 44	021
20340	20341	Add Injector 3 Rate	IEEE single precision float	REC 44	024
20342	20343	Add Injector 4 Rate	IEEE single precision float	REC 44	027



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20344	20345	Add Injector 5 Rate	IEEE single precision float	REC 44	030
20346	20347	Add Injector 6 Rate	IEEE single precision float	REC 44	033
20348	20349	Add Injector 7 Rate	IEEE single precision float	REC 44	036
20350	20351	Add Injector 8 Rate	IEEE single precision float	REC 44	039
20352		Recipe Used	unsigned character	REC 44	001
20353		HM Class Product	unsigned character	REC 44	003
20354		1 <sup>st</sup> Delivered	unsigned character	REC 44	004
20355		2 <sup>nd</sup> Delivered	unsigned character	REC 44	006
20356		3 <sup>rd</sup> Delivered	unsigned character	REC 44	008
20357		4 <sup>th</sup> Delivered	unsigned character	REC 44	010
20358		5 <sup>th</sup> Delivered	unsigned character	REC 44	012
20359		6 <sup>th</sup> Delivered	unsigned character	REC 44	014
20360		Product Using Inj 1	unsigned character	REC 44	019
20361		Product Using Inj 2	unsigned character	REC 44	022
20362		Product Using Inj 3	unsigned character	REC 44	025
20363		Product Using Inj 4	unsigned character	REC 44	028
20364		Product Using Inj 5	unsigned character	REC 44	031
20365		Product Using Inj 6	unsigned character	REC 44	034
20366		Product Using Inj 7	unsigned character	REC 44	037
20367		Product Using Inj 8	unsigned character	REC 44	040
20368		Product Using Inj 9	unsigned character	REC 44	043
20369		Product Using Inj 10	unsigned character	REC 44	046
20370		Product Using Inj 11	unsigned character	REC 44	049
20371		Product Using Inj 12	unsigned character	REC 44	052
20372		Product Using Inj 13	unsigned character	REC 44	055
20373		Product Using Inj 14	unsigned character	REC 44	058
20374		Product Using Inj 15	unsigned character	REC 44	061
20375		Product Using Inj 16	unsigned character	REC 44	064
20376		Product Using Inj 17	unsigned character	REC 44	067
20377		Product Using Inj 18	unsigned character	REC 44	070
20378		Product Using Inj 19	unsigned character	REC 44	073
20379		Product Using Inj 20	unsigned character	REC 44	076
20380		Product Using Inj 21	unsigned character	REC 44	079
20381		Product Using Inj 22	unsigned character	REC 44	082
20382		Product Using Inj 23	unsigned character	REC 44	085

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20383		Product Using Inj 24	unsigned character	REC 44	088
20384		Clean Line Deduct	unsigned character	REC 44	016
20385		Clean Line Product	unsigned character	REC 44	089
20386		Ratio/Sequential Delivery Mode	unsigned character	REC 44	090
20416	20417	Add Injector 9 Rate	IEEE single precision float	REC 44	042
20418	20419	Add Injector 10 Rate	IEEE single precision float	REC 44	045
20420	20421	Add Injector 11 Rate	IEEE single precision float	REC 44	048
20422	20423	Add Injector 12 Rate	IEEE single precision float	REC 44	051
20424	20425	Add Injector 13 Rate	IEEE single precision float	REC 44	054
20426	20427	Add Injector 14 Rate	IEEE single precision float	REC 44	057
20428	20429	Add Injector 15 Rate	IEEE single precision float	REC 44	060
20430	20431	Add Injector 16 Rate	IEEE single precision float	REC 44	063
20432	20433	Add Injector 17 Rate	IEEE single precision float	REC 44	066
20434	20435	Add Injector 18 Rate	IEEE single precision float	REC 44	069
20436	20437	Add Injector 19 Rate	IEEE single precision float	REC 44	072
20438	20439	Add Injector 20 Rate	IEEE single precision float	REC 44	075
20440	20441	Add Injector 21 Rate	IEEE single precision float	REC 44	078
20442	20443	Add Injector 22 Rate	IEEE single precision float	REC 44	081
20444	20445	Add Injector 23 Rate	IEEE single precision float	REC 44	084
20446	20447	Add Injector 24 Rate	IEEE single precision float	REC 44	087
20448	20449	1st Percentage	IEEE single precision float	REC 44	005
20450	20451	2nd Percentage	IEEE single precision float	REC 44	007
20452	20453	3rd Percentage	IEEE single precision float	REC 44	009
20454	20455	4th Percentage	IEEE single precision float	REC 44	011
20456	20457	5th Percentage	IEEE single precision float	REC 44	013
20458	20459	6th Percentage	IEEE single precision float	REC 44	015
20480	20487	Recipe Name	Text (char[16])	REC 45	002
20544	20545	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 45	017
20546	20547	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 45	020
20548	20549	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 45	023
20550	20551	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 45	026
20552	20553	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 45	029
20554	20555	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 45	032
20556	20557	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 45	035
20558	20559	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 45	038
20560	20561	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 45	041

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20562	20563	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 45	044
20564	20565	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 45	047
20566	20567	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 45	050
20568	20569	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 45	053
20570	20571	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 45	056
20572	20573	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 45	059
20574	20575	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 45	062
20576	20577	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 45	065
20578	20579	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 45	068
20580	20581	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 45	071
20582	20583	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 45	074
20584	20585	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 45	077
20586	20587	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 45	080
20588	20589	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 45	083
20590	20591	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 45	086
20592	20593	Add Injector 1 Rate	IEEE single precision float	REC 45	018
20594	20595	Add Injector 2 Rate	IEEE single precision float	REC 45	021
20596	20597	Add Injector 3 Rate	IEEE single precision float	REC 45	024
20598	20599	Add Injector 4 Rate	IEEE single precision float	REC 45	027
20600	20601	Add Injector 5 Rate	IEEE single precision float	REC 45	030
20602	20603	Add Injector 6 Rate	IEEE single precision float	REC 45	033
20604	20605	Add Injector 7 Rate	IEEE single precision float	REC 45	036
20606	20607	Add Injector 8 Rate	IEEE single precision float	REC 45	039
20608		Recipe Used	unsigned character	REC 45	001
20609		HM Class Product	unsigned character	REC 45	003
20610		1 <sup>st</sup> Delivered	unsigned character	REC 45	004
20611		2 <sup>nd</sup> Delivered	unsigned character	REC 45	006
20612		3 <sup>rd</sup> Delivered	unsigned character	REC 45	008
20613		4 <sup>th</sup> Delivered	unsigned character	REC 45	010
20614		5 <sup>th</sup> Delivered	unsigned character	REC 45	012
20615		6 <sup>th</sup> Delivered	unsigned character	REC 45	014
20616		Product Using Inj 1	unsigned character	REC 45	019
20617		Product Using Inj 2	unsigned character	REC 45	022
20618		Product Using Inj 3	unsigned character	REC 45	025
20619		Product Using Inj 4	unsigned character	REC 45	028
20620		Product Using Inj 5	unsigned character	REC 45	031

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20621		Product Using Inj 6	unsigned character	REC 45	034
20622		Product Using Inj 7	unsigned character	REC 45	037
20623		Product Using Inj 8	unsigned character	REC 45	040
20624		Product Using Inj 9	unsigned character	REC 45	043
20625		Product Using Inj 10	unsigned character	REC 45	046
20626		Product Using Inj 11	unsigned character	REC 45	049
20627		Product Using Inj 12	unsigned character	REC 45	052
20628		Product Using Inj 13	unsigned character	REC 45	055
20629		Product Using Inj 14	unsigned character	REC 45	058
20630		Product Using Inj 15	unsigned character	REC 45	061
20631		Product Using Inj 16	unsigned character	REC 45	064
20632		Product Using Inj 17	unsigned character	REC 45	067
20633		Product Using Inj 18	unsigned character	REC 45	070
20634		Product Using Inj 19	unsigned character	REC 45	073
20635		Product Using Inj 20	unsigned character	REC 45	076
20636		Product Using Inj 21	unsigned character	REC 45	079
20637		Product Using Inj 22	unsigned character	REC 45	082
20638		Product Using Inj 23	unsigned character	REC 45	085
20639		Product Using Inj 24	unsigned character	REC 45	088
20640		Clean Line Deduct	unsigned character	REC 45	016
20641		Clean Line Product	unsigned character	REC 45	089
20642		Ratio/Sequential Delivery Mode	unsigned character	REC 45	090
20672	20673	Add Injector 9 Rate	IEEE single precision float	REC 45	042
20674	20675	Add Injector 10 Rate	IEEE single precision float	REC 45	045
20676	20677	Add Injector 11 Rate	IEEE single precision float	REC 45	048
20678	20679	Add Injector 12 Rate	IEEE single precision float	REC 45	051
20680	20681	Add Injector 13 Rate	IEEE single precision float	REC 45	054
20682	20683	Add Injector 14 Rate	IEEE single precision float	REC 45	057
20684	20685	Add Injector 15 Rate	IEEE single precision float	REC 45	060
20686	20687	Add Injector 16 Rate	IEEE single precision float	REC 45	063
20688	20689	Add Injector 17 Rate	IEEE single precision float	REC 45	066
20690	20691	Add Injector 18 Rate	IEEE single precision float	REC 45	069
20692	20693	Add Injector 19 Rate	IEEE single precision float	REC 45	072
20694	20695	Add Injector 20 Rate	IEEE single precision float	REC 45	075
20696	20697	Add Injector 21 Rate	IEEE single precision float	REC 45	078
20698	20699	Add Injector 22 Rate	IEEE single precision float	REC 45	081

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20700	20701	Add Injector 23 Rate	IEEE single precision float	REC 45	084
20702	20703	Add Injector 24 Rate	IEEE single precision float	REC 45	087
20704	20705	1st Percentage	IEEE single precision float	REC 45	005
20706	20707	2nd Percentage	IEEE single precision float	REC 45	007
20708	20709	3rd Percentage	IEEE single precision float	REC 45	009
20710	20711	4th Percentage	IEEE single precision float	REC 45	011
20712	20713	5th Percentage	IEEE single precision float	REC 45	013
20714	20715	6th Percentage	IEEE single precision float	REC 45	015
20736	20743	Recipe Name	Text (char[16])	REC 46	002
20800	20801	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 46	017
20802	20803	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 46	020
20804	20805	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 46	023
20806	20807	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 46	026
20808	20809	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 46	029
20810	20811	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 46	032
20812	20813	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 46	035
20814	20815	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 46	038
20816	20817	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 46	041
20818	20819	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 46	044
20820	20821	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 46	047
20822	20823	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 46	050
20824	20825	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 46	053
20826	20827	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 46	056
20828	20829	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 46	059
20830	20831	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 46	062
20832	20833	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 46	065
20834	20835	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 46	068
20836	20837	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 46	071
20838	20839	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 46	074
20840	20841	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 46	077
20842	20843	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 46	080
20844	20845	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 46	083
20846	20847	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 46	086
20848	20849	Add Injector 1 Rate	IEEE single precision float	REC 46	018
20850	20851	Add Injector 2 Rate	IEEE single precision float	REC 46	021
20852	20853	Add Injector 3 Rate	IEEE single precision float	REC 46	024

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20854	20855	Add Injector 4 Rate	IEEE single precision float	REC 46	027
20856	20857	Add Injector 5 Rate	IEEE single precision float	REC 46	030
20858	20859	Add Injector 6 Rate	IEEE single precision float	REC 46	033
20860	20861	Add Injector 7 Rate	IEEE single precision float	REC 46	036
20862	20863	Add Injector 8 Rate	IEEE single precision float	REC 46	039
20864		Recipe Used	unsigned character	REC 46	001
20865		HM Class Product	unsigned character	REC 46	003
20866		1 <sup>st</sup> Delivered	unsigned character	REC 46	004
20867		2 <sup>nd</sup> Delivered	unsigned character	REC 46	006
20868		3 <sup>rd</sup> Delivered	unsigned character	REC 46	008
20869		4 <sup>th</sup> Delivered	unsigned character	REC 46	010
20870		5 <sup>th</sup> Delivered	unsigned character	REC 46	012
20871		6 <sup>th</sup> Delivered	unsigned character	REC 46	014
20872		Product Using Inj 1	unsigned character	REC 46	019
20873		Product Using Inj 2	unsigned character	REC 46	022
20874		Product Using Inj 3	unsigned character	REC 46	025
20875		Product Using Inj 4	unsigned character	REC 46	028
20876		Product Using Inj 5	unsigned character	REC 46	031
20877		Product Using Inj 6	unsigned character	REC 46	034
20878		Product Using Inj 7	unsigned character	REC 46	037
20879		Product Using Inj 8	unsigned character	REC 46	040
20880		Product Using Inj 9	unsigned character	REC 46	043
20881		Product Using Inj 10	unsigned character	REC 46	046
20882		Product Using Inj 11	unsigned character	REC 46	049
20883		Product Using Inj 12	unsigned character	REC 46	052
20884		Product Using Inj 13	unsigned character	REC 46	055
20885		Product Using Inj 14	unsigned character	REC 46	058
20886		Product Using Inj 15	unsigned character	REC 46	061
20887		Product Using Inj 16	unsigned character	REC 46	064
20888		Product Using Inj 17	unsigned character	REC 46	067
20889		Product Using Inj 18	unsigned character	REC 46	070
20890		Product Using Inj 19	unsigned character	REC 46	073
20891		Product Using Inj 20	unsigned character	REC 46	076
20892		Product Using Inj 21	unsigned character	REC 46	079
20893		Product Using Inj 22	unsigned character	REC 46	082

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
20894		Product Using Inj 23	unsigned character	REC 46	085
20895		Product Using Inj 24	unsigned character	REC 46	088
20896		Clean Line Deduct	unsigned character	REC 46	016
20897		Clean Line Product	unsigned character	REC 46	089
20878		Ratio/Sequential Delivery Mode	unsigned character	REC 46	090
20928	20929	Add Injector 9 Rate	IEEE single precision float	REC 46	042
20930	20931	Add Injector 10 Rate	IEEE single precision float	REC 46	045
20932	20933	Add Injector 11 Rate	IEEE single precision float	REC 46	048
20934	20935	Add Injector 12 Rate	IEEE single precision float	REC 46	051
20936	20937	Add Injector 13 Rate	IEEE single precision float	REC 46	054
20938	20939	Add Injector 14 Rate	IEEE single precision float	REC 46	057
20940	20941	Add Injector 15 Rate	IEEE single precision float	REC 46	060
20942	20943	Add Injector 16 Rate	IEEE single precision float	REC 46	063
20944	20945	Add Injector 17 Rate	IEEE single precision float	REC 46	066
20946	20947	Add Injector 18 Rate	IEEE single precision float	REC 46	069
20948	20949	Add Injector 19 Rate	IEEE single precision float	REC 46	072
20950	20951	Add Injector 20 Rate	IEEE single precision float	REC 46	075
20952	20953	Add Injector 21 Rate	IEEE single precision float	REC 46	078
20954	20955	Add Injector 22 Rate	IEEE single precision float	REC 46	081
20956	20957	Add Injector 23 Rate	IEEE single precision float	REC 46	084
20958	20959	Add Injector 24 Rate	IEEE single precision float	REC 46	087
20960	20961	1st Percentage	IEEE single precision float	REC 46	005
20962	20963	2nd Percentage	IEEE single precision float	REC 46	007
20964	20965	3rd Percentage	IEEE single precision float	REC 46	009
20966	20967	4th Percentage	IEEE single precision float	REC 46	011
20968	20969	5th Percentage	IEEE single precision float	REC 46	013
20970	20971	6th Percentage	IEEE single precision float	REC 46	015
20992	20999	Recipe Name	Text (char[16])	REC 47	002
21056	21057	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 47	017
21058	21059	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 47	020
21060	21061	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 47	023
21062	21063	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 47	026
21064	21065	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 47	029
21066	21067	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 47	032
21068	21069	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 47	035
21070	21071	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 47	038

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21072	21073	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 47	041
21074	21075	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 47	044
21076	21077	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 47	047
21078	21079	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 47	050
21080	21081	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 47	053
21082	21083	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 47	056
21084	21085	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 47	059
21086	21087	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 47	062
21088	21089	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 47	065
21090	21091	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 47	068
21092	21093	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 47	071
21094	21095	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 47	074
21096	21097	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 47	077
21098	21099	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 47	080
21100	21101	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 47	083
21102	21103	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 47	086
21104	21105	Add Injector 1 Rate	IEEE single precision float	REC 47	018
21106	21107	Add Injector 2 Rate	IEEE single precision float	REC 47	021
21108	21109	Add Injector 3 Rate	IEEE single precision float	REC 47	024
21110	21111	Add Injector 4 Rate	IEEE single precision float	REC 47	027
21112	21113	Add Injector 5 Rate	IEEE single precision float	REC 47	030
21114	21115	Add Injector 6 Rate	IEEE single precision float	REC 47	033
21116	21117	Add Injector 7 Rate	IEEE single precision float	REC 47	036
21118	21119	Add Injector 8 Rate	IEEE single precision float	REC 47	039
21120		Recipe Used	unsigned character	REC 47	001
21121		HM Class Product	unsigned character	REC 47	003
21122		1 <sup>st</sup> Delivered	unsigned character	REC 47	004
21123		2 <sup>nd</sup> Delivered	unsigned character	REC 47	006
21124		3 <sup>rd</sup> Delivered	unsigned character	REC 47	008
21125		4 <sup>th</sup> Delivered	unsigned character	REC 47	010
21126		5 <sup>th</sup> Delivered	unsigned character	REC 47	012
21127		6 <sup>th</sup> Delivered	unsigned character	REC 47	014
21128		Product Using Inj 1	unsigned character	REC 47	019
21129		Product Using Inj 2	unsigned character	REC 47	022
21130		Product Using Inj 3	unsigned character	REC 47	025
21131		Product Using Inj 4	unsigned character	REC 47	028



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21132		Product Using Inj 5	unsigned character	REC 47	031
21133		Product Using Inj 6	unsigned character	REC 47	034
21134		Product Using Inj 7	unsigned character	REC 47	037
21135		Product Using Inj 8	unsigned character	REC 47	040
21136		Product Using Inj 9	unsigned character	REC 47	043
21137		Product Using Inj 10	unsigned character	REC 47	046
21138		Product Using Inj 11	unsigned character	REC 47	049
21139		Product Using Inj 12	unsigned character	REC 47	052
21140		Product Using Inj 13	unsigned character	REC 47	055
21141		Product Using Inj 14	unsigned character	REC 47	058
21142		Product Using Inj 15	unsigned character	REC 47	061
21143		Product Using Inj 16	unsigned character	REC 47	064
21144		Product Using Inj 17	unsigned character	REC 47	067
21145		Product Using Inj 18	unsigned character	REC 47	070
21146		Product Using Inj 19	unsigned character	REC 47	073
21147		Product Using Inj 20	unsigned character	REC 47	076
21148		Product Using Inj 21	unsigned character	REC 47	079
21149		Product Using Inj 22	unsigned character	REC 47	082
21150		Product Using Inj 23	unsigned character	REC 47	085
21151		Product Using Inj 24	unsigned character	REC 47	088
21152		Clean Line Deduct	unsigned character	REC 47	016
21153		Clean Line Product	unsigned character	REC 47	089
21154		Ratio/Sequential Delivery Mode	unsigned character	REC 47	090
21184	21185	Add Injector 9 Rate	IEEE single precision float	REC 47	042
21186	21187	Add Injector 10 Rate	IEEE single precision float	REC 47	045
21188	21189	Add Injector 11 Rate	IEEE single precision float	REC 47	048
21190	21191	Add Injector 12 Rate	IEEE single precision float	REC 47	051
21192	21193	Add Injector 13 Rate	IEEE single precision float	REC 47	054
21194	21195	Add Injector 14 Rate	IEEE single precision float	REC 47	057
21196	21197	Add Injector 15 Rate	IEEE single precision float	REC 47	060
21198	21199	Add Injector 16 Rate	IEEE single precision float	REC 47	063
21200	21201	Add Injector 17 Rate	IEEE single precision float	REC 47	066
21202	21203	Add Injector 18 Rate	IEEE single precision float	REC 47	069
21204	21205	Add Injector 19 Rate	IEEE single precision float	REC 47	072
21206	21207	Add Injector 20 Rate	IEEE single precision float	REC 47	075
21208	21209	Add Injector 21 Rate	IEEE single precision float	REC 47	078

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21210	21211	Add Injector 22 Rate	IEEE single precision float	REC 47	081
21212	21213	Add Injector 23 Rate	IEEE single precision float	REC 47	084
21214	21215	Add Injector 24 Rate	IEEE single precision float	REC 47	087
21216	21217	1st Percentage	IEEE single precision float	REC 47	005
21218	21219	2nd Percentage	IEEE single precision float	REC 47	007
21220	21221	3rd Percentage	IEEE single precision float	REC 47	009
21222	21223	4th Percentage	IEEE single precision float	REC 47	011
21224	21225	5th Percentage	IEEE single precision float	REC 47	013
21226	21227	6th Percentage	IEEE single precision float	REC 47	015
21248	21255	Recipe Name	Text (char[16])	REC 48	002
21312	21313	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 48	017
21314	21315	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 48	020
21316	21317	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 48	023
21318	21319	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 48	026
21320	21321	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 48	029
21322	21323	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 48	032
21324	21325	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 48	035
21326	21327	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 48	038
21328	21329	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 48	041
21330	21331	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 48	044
21332	21333	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 48	047
21334	21335	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 48	050
21336	21337	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 48	053
21338	21339	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 48	056
21340	21341	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 48	059
21342	21343	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 48	062
21344	21345	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 48	065
21346	21347	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 48	068
21348	21349	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 48	071
21350	21351	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 48	074
21352	21353	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 48	077
21354	21355	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 48	080
21356	21357	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 48	083
21358	21359	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 48	086
21360	21361	Add Injector 1 Rate	IEEE single precision float	REC 48	018
21362	21363	Add Injector 2 Rate	IEEE single precision float	REC 48	021

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21364	21365	Add Injector 3 Rate	IEEE single precision float	REC 48	024
21366	21367	Add Injector 4 Rate	IEEE single precision float	REC 48	027
21368	21369	Add Injector 5 Rate	IEEE single precision float	REC 48	030
21370	21371	Add Injector 6 Rate	IEEE single precision float	REC 48	033
21372	21373	Add Injector 7 Rate	IEEE single precision float	REC 48	036
21374	21375	Add Injector 8 Rate	IEEE single precision float	REC 48	039
21376		Recipe Used	unsigned character	REC 48	001
21377		HM Class Product	unsigned character	REC 48	003
21378		1 <sup>st</sup> Delivered	unsigned character	REC 48	004
21379		2 <sup>nd</sup> Delivered	unsigned character	REC 48	006
21380		3 <sup>rd</sup> Delivered	unsigned character	REC 48	008
21381		4 <sup>th</sup> Delivered	unsigned character	REC 48	010
21382		5 <sup>th</sup> Delivered	unsigned character	REC 48	012
21383		6 <sup>th</sup> Delivered	unsigned character	REC 48	014
21384		Product Using Inj 1	unsigned character	REC 48	019
21385		Product Using Inj 2	unsigned character	REC 48	022
21386		Product Using Inj 3	unsigned character	REC 48	025
21387		Product Using Inj 4	unsigned character	REC 48	028
21388		Product Using Inj 5	unsigned character	REC 48	031
21389		Product Using Inj 6	unsigned character	REC 48	034
21390		Product Using Inj 7	unsigned character	REC 48	037
21391		Product Using Inj 8	unsigned character	REC 48	040
21392		Product Using Inj 9	unsigned character	REC 48	043
21393		Product Using Inj 10	unsigned character	REC 48	046
21394		Product Using Inj 11	unsigned character	REC 48	049
21395		Product Using Inj 12	unsigned character	REC 48	052
21396		Product Using Inj 13	unsigned character	REC 48	055
21397		Product Using Inj 14	unsigned character	REC 48	058
21398		Product Using Inj 15	unsigned character	REC 48	061
21399		Product Using Inj 16	unsigned character	REC 48	064
21400		Product Using Inj 17	unsigned character	REC 48	067
21401		Product Using Inj 18	unsigned character	REC 48	070
21402		Product Using Inj 19	unsigned character	REC 48	073
21403		Product Using Inj 20	unsigned character	REC 48	076
21404		Product Using Inj 21	unsigned character	REC 48	079

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21405		Product Using Inj 22	unsigned character	REC 48	082
21406		Product Using Inj 23	unsigned character	REC 48	085
21407		Product Using Inj 24	unsigned character	REC 48	088
21408		Clean Line Deduct	unsigned character	REC 48	016
21409		Clean Line Product	unsigned character	REC 48	089
21410		Ratio/Sequential Delivery Mode	unsigned character	REC 48	090
21440	21441	Add Injector 9 Rate	IEEE single precision float	REC 48	042
21442	21443	Add Injector 10 Rate	IEEE single precision float	REC 48	045
21444	21445	Add Injector 11 Rate	IEEE single precision float	REC 48	048
21446	21447	Add Injector 12 Rate	IEEE single precision float	REC 48	051
21448	21449	Add Injector 13 Rate	IEEE single precision float	REC 48	054
21450	21451	Add Injector 14 Rate	IEEE single precision float	REC 48	057
21452	21453	Add Injector 15 Rate	IEEE single precision float	REC 48	060
21454	21455	Add Injector 16 Rate	IEEE single precision float	REC 48	063
21456	21457	Add Injector 17 Rate	IEEE single precision float	REC 48	066
21458	21459	Add Injector 18 Rate	IEEE single precision float	REC 48	069
21460	21461	Add Injector 19 Rate	IEEE single precision float	REC 48	072
21462	21463	Add Injector 20 Rate	IEEE single precision float	REC 48	075
21464	21465	Add Injector 21 Rate	IEEE single precision float	REC 48	078
21466	21467	Add Injector 22 Rate	IEEE single precision float	REC 48	081
21468	21469	Add Injector 23 Rate	IEEE single precision float	REC 48	084
21470	21471	Add Injector 24 Rate	IEEE single precision float	REC 48	087
21472	21473	1st Percentage	IEEE single precision float	REC 48	005
21474	21475	2nd Percentage	IEEE single precision float	REC 48	007
21476	21477	3rd Percentage	IEEE single precision float	REC 48	009
21478	21479	4th Percentage	IEEE single precision float	REC 48	011
21480	21481	5th Percentage	IEEE single precision float	REC 48	013
21482	21483	6th Percentage	IEEE single precision float	REC 48	015
21504	21511	Recipe Name	Text (char[16])	REC 49	002
21568	21569	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 49	017
21570	21571	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 49	020
21572	21573	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 49	023
21574	21575	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 49	026
21576	21577	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 49	029
21578	21579	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 49	032
21580	21581	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 49	035

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Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21582	21583	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 49	038
21584	21585	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 49	041
21586	21587	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 49	044
21588	21589	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 49	047
21590	21591	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 49	050
21592	21593	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 49	053
21594	21595	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 49	056
21596	21597	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 49	059
21598	21599	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 49	062
21600	21601	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 49	065
21602	21603	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 49	068
21604	21605	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 49	071
21606	21607	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 49	074
21608	21609	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 49	077
21610	21611	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 49	080
21612	21613	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 49	083
21614	21615	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 49	086
21616	21617	Add Injector 1 Rate	IEEE single precision float	REC 49	018
21618	21619	Add Injector 2 Rate	IEEE single precision float	REC 49	021
21620	21621	Add Injector 3 Rate	IEEE single precision float	REC 49	024
21622	21623	Add Injector 4 Rate	IEEE single precision float	REC 49	027
21624	21625	Add Injector 5 Rate	IEEE single precision float	REC 49	030
21626	21627	Add Injector 6 Rate	IEEE single precision float	REC 49	033
21628	21629	Add Injector 7 Rate	IEEE single precision float	REC 49	036
21630	21631	Add Injector 8 Rate	IEEE single precision float	REC 49	039
21632		Recipe Used	unsigned character	REC 49	001
21633		HM Class Product	unsigned character	REC 49	003
21634		1 <sup>st</sup> Delivered	unsigned character	REC 49	004
21635		2 <sup>nd</sup> Delivered	unsigned character	REC 49	006
21636		3 <sup>rd</sup> Delivered	unsigned character	REC 49	008
21637		4 <sup>th</sup> Delivered	unsigned character	REC 49	010
21638		5 <sup>th</sup> Delivered	unsigned character	REC 49	012
21639		6 <sup>th</sup> Delivered	unsigned character	REC 49	014
21640		Product Using Inj 1	unsigned character	REC 49	019
21641		Product Using Inj 2	unsigned character	REC 49	022
21642		Product Using Inj 3	unsigned character	REC 49	025

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21643		Product Using Inj 4	unsigned character	REC 49	028
21644		Product Using Inj 5	unsigned character	REC 49	031
21645		Product Using Inj 6	unsigned character	REC 49	034
21646		Product Using Inj 7	unsigned character	REC 49	037
21647		Product Using Inj 8	unsigned character	REC 49	040
21648		Product Using Inj 9	unsigned character	REC 49	043
21649		Product Using Inj 10	unsigned character	REC 49	046
21650		Product Using Inj 11	unsigned character	REC 49	049
21651		Product Using Inj 12	unsigned character	REC 49	052
21652		Product Using Inj 13	unsigned character	REC 49	055
21653		Product Using Inj 14	unsigned character	REC 49	058
21654		Product Using Inj 15	unsigned character	REC 49	061
21655		Product Using Inj 16	unsigned character	REC 49	064
21656		Product Using Inj 17	unsigned character	REC 49	067
21657		Product Using Inj 18	unsigned character	REC 49	070
21658		Product Using Inj 19	unsigned character	REC 49	073
21659		Product Using Inj 20	unsigned character	REC 49	076
21660		Product Using Inj 21	unsigned character	REC 49	079
21661		Product Using Inj 22	unsigned character	REC 49	082
21662		Product Using Inj 23	unsigned character	REC 49	085
21663		Product Using Inj 24	unsigned character	REC 49	088
21664		Clean Line Deduct	unsigned character	REC 49	016
21665		Clean Line Product	unsigned character	REC 49	089
21666		Ratio/Sequential Delivery Mode	unsigned character	REC 49	090
21696	21697	Add Injector 9 Rate	IEEE single precision float	REC 49	042
21698	21699	Add Injector 10 Rate	IEEE single precision float	REC 49	045
21700	21701	Add Injector 11 Rate	IEEE single precision float	REC 49	048
21702	21703	Add Injector 12 Rate	IEEE single precision float	REC 49	051
21704	21705	Add Injector 13 Rate	IEEE single precision float	REC 49	054
21706	21707	Add Injector 14 Rate	IEEE single precision float	REC 49	057
21708	21709	Add Injector 15 Rate	IEEE single precision float	REC 49	060
21710	21711	Add Injector 16 Rate	IEEE single precision float	REC 49	063
21712	21713	Add Injector 17 Rate	IEEE single precision float	REC 49	066
21714	21715	Add Injector 18 Rate	IEEE single precision float	REC 49	069
21716	21717	Add Injector 19 Rate	IEEE single precision float	REC 49	072
21718	21719	Add Injector 20 Rate	IEEE single precision float	REC 49	075

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21720	21721	Add Injector 21 Rate	IEEE single precision float	REC 49	078
21722	21723	Add Injector 22 Rate	IEEE single precision float	REC 49	081
21724	21725	Add Injector 23 Rate	IEEE single precision float	REC 49	084
21726	21727	Add Injector 24 Rate	IEEE single precision float	REC 49	087
21728	21729	1 <sup>st</sup> Percentage	IEEE single precision float	REC 49	005
21730	21731	2 <sup>nd</sup> Percentage	IEEE single precision float	REC 49	007
21732	21733	3 <sup>rd</sup> Percentage	IEEE single precision float	REC 49	009
21734	21735	4 <sup>th</sup> Percentage	IEEE single precision float	REC 49	011
21736	21737	5 <sup>th</sup> Percentage	IEEE single precision float	REC 49	013
21738	21739	6 <sup>th</sup> Percentage	IEEE single precision float	REC 49	015
21760	21767	Recipe Name	Text (char[16])	REC 50	002
21824	21825	Add Inj 1 Volume/Cycle	IEEE single precision float	REC 50	017
21826	21827	Add Inj 2 Volume/Cycle	IEEE single precision float	REC 50	020
21828	21829	Add Inj 3 Volume/Cycle	IEEE single precision float	REC 50	023
21830	21831	Add Inj 4 Volume/Cycle	IEEE single precision float	REC 50	026
21832	21833	Add Inj 5 Volume/Cycle	IEEE single precision float	REC 50	029
21834	21835	Add Inj 6 Volume/Cycle	IEEE single precision float	REC 50	032
21836	21837	Add Inj 7 Volume/Cycle	IEEE single precision float	REC 50	035
21838	21839	Add Inj 8 Volume/Cycle	IEEE single precision float	REC 50	038
21840	21841	Add Inj 9 Volume/Cycle	IEEE single precision float	REC 50	041
21842	21843	Add Inj 10 Volume/Cycle	IEEE single precision float	REC 50	044
21844	21845	Add Inj 11 Volume/Cycle	IEEE single precision float	REC 50	047
21846	21847	Add Inj 12 Volume/Cycle	IEEE single precision float	REC 50	050
21848	21849	Add Inj 13 Volume/Cycle	IEEE single precision float	REC 50	053
21850	21851	Add Inj 14 Volume/Cycle	IEEE single precision float	REC 50	056
21852	21853	Add Inj 15 Volume/Cycle	IEEE single precision float	REC 50	059
21854	21855	Add Inj 16 Volume/Cycle	IEEE single precision float	REC 50	062
21856	21857	Add Inj 17 Volume/Cycle	IEEE single precision float	REC 50	065
21858	21859	Add Inj 18 Volume/Cycle	IEEE single precision float	REC 50	068
21860	21861	Add Inj 19 Volume/Cycle	IEEE single precision float	REC 50	071
21862	21863	Add Inj 20 Volume/Cycle	IEEE single precision float	REC 50	074
21864	21865	Add Inj 21 Volume/Cycle	IEEE single precision float	REC 50	077
21866	21867	Add Inj 22 Volume/Cycle	IEEE single precision float	REC 50	080
21868	21869	Add Inj 23 Volume/Cycle	IEEE single precision float	REC 50	083
21870	21871	Add Inj 24 Volume/Cycle	IEEE single precision float	REC 50	086
21872	21873	Add Injector 1 Rate	IEEE single precision float	REC 50	018

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21874	21875	Add Injector 2 Rate	IEEE single precision float	REC 50	021
21876	21877	Add Injector 3 Rate	IEEE single precision float	REC 50	024
21878	21879	Add Injector 4 Rate	IEEE single precision float	REC 50	027
21880	21881	Add Injector 5 Rate	IEEE single precision float	REC 50	030
21882	21883	Add Injector 6 Rate	IEEE single precision float	REC 50	033
21884	21885	Add Injector 7 Rate	IEEE single precision float	REC 50	036
21886	21887	Add Injector 8 Rate	IEEE single precision float	REC 50	039
21888		Recipe Used	unsigned character	REC 50	001
21889		HM Class Product	unsigned character	REC 50	003
21890		1 <sup>st</sup> Delivered	unsigned character	REC 50	004
21891		2 <sup>nd</sup> Delivered	unsigned character	REC 50	006
21892		3 <sup>rd</sup> Delivered	unsigned character	REC 50	008
21893		4 <sup>th</sup> Delivered	unsigned character	REC 50	010
21894		5 <sup>th</sup> Delivered	unsigned character	REC 50	012
21895		6 <sup>th</sup> Delivered	unsigned character	REC 50	014
21896		Product Using Inj 1	unsigned character	REC 50	019
21897		Product Using Inj 2	unsigned character	REC 50	022
21898		Product Using Inj 3	unsigned character	REC 50	025
21899		Product Using Inj 4	unsigned character	REC 50	028
21900		Product Using Inj 5	unsigned character	REC 50	031
21901		Product Using Inj 6	unsigned character	REC 50	034
21902		Product Using Inj 7	unsigned character	REC 50	037
21903		Product Using Inj 8	unsigned character	REC 50	040
21904		Product Using Inj 9	unsigned character	REC 50	043
21905		Product Using Inj 10	unsigned character	REC 50	046
21906		Product Using Inj 11	unsigned character	REC 50	049
21907		Product Using Inj 12	unsigned character	REC 50	052
21908		Product Using Inj 13	unsigned character	REC 50	055
21909		Product Using Inj 14	unsigned character	REC 50	058
21910		Product Using Inj 15	unsigned character	REC 50	061
21911		Product Using Inj 16	unsigned character	REC 50	064
21912		Product Using Inj 17	unsigned character	REC 50	067
21913		Product Using Inj 18	unsigned character	REC 50	070
21914		Product Using Inj 19	unsigned character	REC 50	073
21915		Product Using Inj 20	unsigned character	REC 50	076



## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
21916		Product Using Inj 21	unsigned character	REC 50	079
21917		Product Using Inj 22	unsigned character	REC 50	082
21918		Product Using Inj 23	unsigned character	REC 50	085
21919		Product Using Inj 24	unsigned character	REC 50	088
21920		Clean Line Deduct	unsigned character	REC 50	016
21921		Clean Line Product	unsigned character	REC 50	089
21922		Ratio/Sequential Delivery Mode	unsigned character	REC 50	090
21952	21953	Add Injector 9 Rate	IEEE single precision float	REC 50	042
21954	21955	Add Injector 10 Rate	IEEE single precision float	REC 50	045
21956	21957	Add Injector 11 Rate	IEEE single precision float	REC 50	048
21958	21959	Add Injector 12 Rate	IEEE single precision float	REC 50	051
21960	21961	Add Injector 13 Rate	IEEE single precision float	REC 50	054
21962	21963	Add Injector 14 Rate	IEEE single precision float	REC 50	057
21964	21965	Add Injector 15 Rate	IEEE single precision float	REC 50	060
21966	21967	Add Injector 16 Rate	IEEE single precision float	REC 50	063
21968	21969	Add Injector 17 Rate	IEEE single precision float	REC 50	066
21970	21971	Add Injector 18 Rate	IEEE single precision float	REC 50	069
21972	21973	Add Injector 19 Rate	IEEE single precision float	REC 50	072
21974	21975	Add Injector 20 Rate	IEEE single precision float	REC 50	075
21976	21977	Add Injector 21 Rate	IEEE single precision float	REC 50	078
21978	21979	Add Injector 22 Rate	IEEE single precision float	REC 50	081
21980	21981	Add Injector 23 Rate	IEEE single precision float	REC 50	084
21982	21983	Add Injector 24 Rate	IEEE single precision float	REC 50	087
21984	21985	1st Percentage	IEEE single precision float	REC 50	005
21986	21987	2nd Percentage	IEEE single precision float	REC 50	007
21988	21989	3rd Percentage	IEEE single precision float	REC 50	009
21990	21991	4th Percentage	IEEE single precision float	REC 50	011
21992	21993	5th Percentage	IEEE single precision float	REC 50	013
21994	21995	6th Percentage	IEEE single precision float	REC 50	015

## Section V – Map of Function 03, 06 & 16 Read/Write Control Register

### Analog Directory

Modbus Address	Ending Address	Data Point	Data Type
22784	22785	Set General Purpose Analog Out #1	IEEE single precision float
22786	22787	Set General Purpose Analog Out #2	IEEE single precision float
22788	22789	Set General Purpose Analog Out #3	IEEE single precision float
22790	22791	Set General Purpose Analog Out #4	IEEE single precision float
22792	22793	Set General Purpose Analog Out #5	IEEE single precision float
22794	22795	Set General Purpose Analog Out #6	IEEE single precision float
22848		Print to Printer Command	unsigned integer

### Bay Directory

Modbus Address	Ending Address	Data Point	Data Type	Menu	Parameter
22912		Bay Trans Report Select	unsigned character	BAY	701
22913		Bay Trans Report Volume Resolution	unsigned character	BAY	704
22914		Bay Trans Report Pages	unsigned character	BAY	705
22915		Bay Trans Report HM Class Arm	unsigned character	BAY	706
22916		Bay Permissive 1 Sense	unsigned character	BAY	101
22917		Bay Permissive 1 Restart	unsigned character	BAY	103
22918		Bay Permissive 2 Sense	unsigned character	BAY	104
22919		Bay Permissive 2 Restart	unsigned character	BAY	106
22976		Bay Summary Report Interval	unsigned integer	BAY	702
23040	23055	Bay ID	Text (character[32])	BAY	107
23056	23071	Bay Summary Report Print Time	Text (character[32])	BAY	703
23072	23087	Bay Permissive Message 1	Text (character[32])	BAY	102
23088	23103	Bay Permissive Message 2	Text (character[32])	BAY	105

## Section VI – Map of Function 04 Read Information Register

### ***Map of Function 04 – Read Information Register (Read Input Regs)***

#### ***System Run Data***

<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>
0	2047	Extended Services	outbound (response) buffer area	extended services packet
2048	2049	Analog Run Data (point 1)	Analog Counts	IEEE single precision float
2050	2051	Analog Run Data (point 1)	Analog Raw Value (mA or volts)	IEEE single precision float
2052	2053	Analog Run Data (point 1)	Analog Engineering Value	IEEE single precision float
2112	2113	Analog Run Data (point 2)	Analog Counts	IEEE single precision float
2114	2115	Analog Run Data (point 2)	Analog Raw Value (mA or volts)	IEEE single precision float
2116	2117	Analog Run Data (point 2)	Analog Engineering Value	IEEE single precision float
2176	2177	Analog Run Data (point 3)	Analog Counts	IEEE single precision float
2178	2179	Analog Run Data (point 3)	Analog Raw Value (mA or volts)	IEEE single precision float
2180	2181	Analog Run Data (point 3)	Analog Engineering Value	IEEE single precision float
2240	2241	Analog Run Data (point 4)	Analog Counts	IEEE single precision float
2242	2243	Analog Run Data (point 4)	Analog Raw Value (mA or volts)	IEEE single precision float
2244	2245	Analog Run Data (point 4)	Analog Engineering Value	IEEE single precision float
2304	2305	Analog Run Data (point 5)	Analog Counts	IEEE single precision float
2306	2307	Analog Run Data (point 5)	Analog Raw Value (mA or volts)	IEEE single precision float
2308	2309	Analog Run Data (point 5)	Analog Engineering Value	IEEE single precision float
2368	2369	Analog Run Data (point 6)	Analog Counts	IEEE single precision float
2370	2371	Analog Run Data (point 6)	Analog Raw Value (mA or volts)	IEEE single precision float
2372	2373	Analog Run Data (point 6)	Analog Engineering Value	IEEE single precision float
2432		System Run Data	civacon permit (overfill)	unsigned character
2433		System Run Data	civacon ground	unsigned character
2434		System Run Data	civacon bypassed	unsigned character
2435		System Run Data	civacon sensor 0	unsigned character
2436		System Run Data	civacon sensor 1	unsigned character
2437		System Run Data	civacon sensor 2	unsigned character
2438		System Run Data	civacon sensor 3	unsigned character
2439		System Run Data	BSE Online	unsigned character
2440		System Run Data	2nd Display Online	unsigned character

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
2441		System Run Data	Time Type (AM, PM, MIL)	unsigned character
2496		System Run Data	current year	unsigned int
2497		System Run Data	current month	unsigned int
2498		System Run Data	current day	unsigned int
2499		System Run Data	current day of week	unsigned int
2500		System Run Data	current second	unsigned int
2501		System Run Data	current minute	unsigned int
2502		System Run Data	current hour	unsigned int
2560	2575	System Run Data	Card Data (1-16), Bay A	Text (char[16])
2576	2591	System Run Data	Card Data (17-32), Bay A	Text (char[16])
2592	2607	System Run Data	Card Data (33-48), Bay A	Text (char[16])
2608	2623	System Run Data	Card Data (1-16), Bay B	Text (char[16])
2624	2639	System Run Data	Card Data (17-32), Bay B	Text (char[16])
2640	2655	System Run Data	Card Data (33-48), Bay B	Text (char[16])
3008		Boolean Algebraic Timers	Tenth Second Timer 1 Value	unsigned integer
3009		Boolean Algebraic Timers	Tenth Second Timer 2 Value	unsigned integer
3010		Boolean Algebraic Timers	Tenth Second Timer 3 Value	unsigned integer
3011		Boolean Algebraic Timers	Tenth Second Timer 4 Value	unsigned integer
3012		Boolean Algebraic Timers	One Second Timer 1 Value	unsigned integer
3013		Boolean Algebraic Timers	One Second Timer 2 Value	unsigned integer
3014		Boolean Algebraic Timers	One Second Timer 3 Value	unsigned integer
3015		Boolean Algebraic Timers	One Second Timer 4 Value	unsigned integer
3016		Boolean Algebraic Timers	One Minute Timer 1 Value	unsigned integer
3017		Boolean Algebraic Timers	One Minute Timer 2 Value	unsigned integer
3018		Boolean Algebraic Timers	One Minute Timer 3 Value	unsigned integer
3019		Boolean Algebraic Timers	One Minute Timer 4 Value	unsigned integer
3020		Boolean Algebraic Timers	One Hour Timer 1 Value	unsigned integer
3021		Boolean Algebraic Timers	One Hour Timer 2 Value	unsigned integer
3022		Boolean Algebraic Timers	One Hour Timer 3 Value	unsigned integer
3023		Boolean Algebraic Timers	One Hour Timer 4 Value	unsigned integer
3072	3073	Injector Run Data	Current Injector 1 Rate	IEEE single precision float
3074	3075	Injector Run Data	Current Injector 2 Rate	IEEE single precision float
3076	3077	Injector Run Data	Current Injector 3 Rate	IEEE single precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
3078	3079	Injector Run Data	Current Injector 4 Rate	IEEE single precision float
3080	3081	Injector Run Data	Current Injector 5 Rate	IEEE single precision float
3082	3083	Injector Run Data	Current Injector 6 Rate	IEEE single precision float
3084	3085	Injector Run Data	Current Injector 7 Rate	IEEE single precision float
3086	3087	Injector Run Data	Current Injector 8 Rate	IEEE single precision float
3088	3089	Injector Run Data	Current Injector 9 Rate	IEEE single precision float
3090	3091	Injector Run Data	Current Injector 10 Rate	IEEE single precision float
3092	3093	Injector Run Data	Current Injector 11 Rate	IEEE single precision float
3094	3095	Injector Run Data	Current Injector 12 Rate	IEEE single precision float
3096	3097	Injector Run Data	Current Injector 13 Rate	IEEE single precision float
3098	3099	Injector Run Data	Current Injector 14 Rate	IEEE single precision float
3100	3101	Injector Run Data	Current Injector 15 Rate	IEEE single precision float
3102	3103	Injector Run Data	Current Injector 16 Rate	IEEE single precision float
3104	3105	Injector Run Data	Current Injector 17 Rate	IEEE single precision float
3106	3107	Injector Run Data	Current Injector 18 Rate	IEEE single precision float
3108	3109	Injector Run Data	Current Injector 19 Rate	IEEE single precision float
3110	3111	Injector Run Data	Current Injector 20 Rate	IEEE single precision float
3112	3113	Injector Run Data	Current Injector 21 Rate	IEEE single precision float
3114	3115	Injector Run Data	Current Injector 22 Rate	IEEE single precision float
3116	3117	Injector Run Data	Current Injector 23 Rate	IEEE single precision float
3118	3119	Injector Run Data	Current Injector 24 Rate	IEEE single precision float
3120	3121	Injector Run Data	Current Add 1 Volume/Injection	IEEE single precision float
3122	3123	Injector Run Data	Current Add 2 Volume/Injection	IEEE single precision float
3124	3125	Injector Run Data	Current Add 3 Volume/Injection	IEEE single precision float
3126	3127	Injector Run Data	Current Add 4 Volume/Injection	IEEE single precision float
3128	3129	Injector Run Data	Current Add 5 Volume/Injection	IEEE single precision float
3130	3131	Injector Run Data	Current Add 6 Volume/Injection	IEEE single precision float
3132	3133	Injector Run Data	Current Add 7 Volume/Injection	IEEE single precision float
3134	3135	Injector Run Data	Current Add 8 Volume/Injection	IEEE single precision float
3136	3137	Injector Run Data	Current Add 9 Volume/Injection	IEEE single precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
3138	3139	Injector Run Data	Current Add 10 Volume/Injection	IEEE single precision float
3140	3141	Injector Run Data	Current Add 11 Volume/Injection	IEEE single precision float
3142	3143	Injector Run Data	Current Add 12 Volume/Injection	IEEE single precision float
3144	3145	Injector Run Data	Current Add 13 Volume/Injection	IEEE single precision float
3146	3147	Injector Run Data	Current Add 14 Volume/Injection	IEEE single precision float
3148	3149	Injector Run Data	Current Add 15 Volume/Injection	IEEE single precision float
3150	3151	Injector Run Data	Current Add 16 Volume/Injection	IEEE single precision float
3152	3153	Injector Run Data	Current Add 17 Volume/Injection	IEEE single precision float
3154	3155	Injector Run Data	Current Add 18 Volume/Injection	IEEE single precision float
3156	3157	Injector Run Data	Current Add 19 Volume/Injection	IEEE single precision float
3158	3159	Injector Run Data	Current Add 20 Volume/Injection	IEEE single precision float
3160	3161	Injector Run Data	Current Add 21 Volume/Injection	IEEE single precision float
3162	3163	Injector Run Data	Current Add 22 Volume/Injection	IEEE single precision float
3164	3165	Injector Run Data	Current Add 23 Volume/Injection	IEEE single precision float
3166	3167	Injector Run Data	Current Add 24 Volume/Injection	IEEE single precision float
3168	3169	Injector Run Data	Flow Control Injector #1 Current Temperature	IEEE single precision float
3170	3171	Injector Run Data	Flow Control Injector #2 Current Temperature	IEEE single precision float
3172	3173	Injector Run Data	Flow Control Injector #3 Current Temperature	IEEE single precision float
3174	3175	Injector Run Data	Flow Control Injector #4 Current Temperature	IEEE single precision float
3176	3177	Injector Run Data	Flow Control Injector #1 Average Temperature	IEEE single precision float
3178	3179	Injector Run Data	Flow Control Injector #2 Average Temperature	IEEE single precision float
3180	3181	Injector Run Data	Flow Control Injector #3 Average Temperature	IEEE single precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
3182	3183	Injector Run Data	Flow Control Injector #4 Average Temperature	IEEE single precision float
3184	3185	Injector Run Data	Flow Control Injector #1 Average Density	IEEE single precision float
3186	3187	Injector Run Data	Flow Control Injector #2 Average Density	IEEE single precision float
3188	3189	Injector Run Data	Flow Control Injector #3 Average Density	IEEE single precision float
3190	3191	Injector Run Data	Flow Control Injector #4 Average Density	IEEE single precision float
3192	3193	Injector Run Data	Flow Control Injector #1 Average CTL	IEEE single precision float
3194	3195	Injector Run Data	Flow Control Injector #2 Average CTL	IEEE single precision float
3196	3197	Injector Run Data	Flow Control Injector #3 Average CTL	IEEE single precision float
3198	3199	Injector Run Data	Flow Control Injector #4 Average CTL	IEEE single precision float
3328	3331	Injector Run Data	Additive 1 Non-resettable Total	IEEE double precision float
3332	3335	Injector Run Data	Additive 2 Non-resettable Total	IEEE double precision float
3336	3339	Injector Run Data	Additive 3 Non-resettable Total	IEEE double precision float
3340	3343	Injector Run Data	Additive 4 Non-resettable Total	IEEE double precision float
3344	3347	Injector Run Data	Additive 5 Non-resettable Total	IEEE double precision float
3348	3351	Injector Run Data	Additive 6 Non-resettable Total	IEEE double precision float
3352	3355	Injector Run Data	Additive 7 Non-resettable Total	IEEE double precision float
3356	3359	Injector Run Data	Additive 8 Non-resettable Total	IEEE double precision float
3360	3363	Injector Run Data	Additive 9 Non-resettable Total	IEEE double precision float
3364	3367	Injector Run Data	Additive 10 Non-resettable Total	IEEE double precision float
3368	3371	Injector Run Data	Additive 11 Non-resettable Total	IEEE double precision float
3372	3375	Injector Run Data	Additive 12 Non-resettable Total	IEEE double precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
3376	3379	Injector Run Data	Additive 13 Non-resettable Total	IEEE double precision float
3380	3383	Injector Run Data	Additive 14 Non-resettable Total	IEEE double precision float
3384	3387	Injector Run Data	Additive 15 Non-resettable Total	IEEE double precision float
3388	3391	Injector Run Data	Additive 16 Non-resettable Total	IEEE double precision float
3392	3395	Injector Run Data	Additive 17 Non-resettable Total	IEEE double precision float
3396	3399	Injector Run Data	Additive 18 Non-resettable Total	IEEE double precision float
3400	3403	Injector Run Data	Additive 19 Non-resettable Total	IEEE double precision float
3404	3407	Injector Run Data	Additive 20 Non-resettable Total	IEEE double precision float
3408	3411	Injector Run Data	Additive 21 Non-resettable Total	IEEE double precision float
3412	3415	Injector Run Data	Additive 22 Non-resettable Total	IEEE double precision float
3416	3419	Injector Run Data	Additive 23 Non-resettable Total	IEEE double precision float
3420	3423	Injector Run Data	Additive 24 Non-resettable Total	IEEE double precision float
3424	3427	Injectory Run Data	Additive 1 Non-resettable Total	IEEE double precision float
3428	3431	Injectory Run Data	Additive 2 Non-resettable Total	IEEE double precision float
3432	3435	Injectory Run Data	Additive 3 Non-resettable Total	IEEE double precision float
3436	3439	Injectory Run Data	Additive 4 Non-resettable Total	IEEE double precision float
3440	3443	Injectory Run Data	Additive 5 Non-resettable Total	IEEE double precision float
3444	3447	Injectory Run Data	Additive 6 Non-resettable Total	IEEE double precision float
3448	3451	Injectory Run Data	Additive 7 Non-resettable Total	IEEE double precision float
3452	3455	Injectory Run Data	Additive 8 Non-resettable Total	IEEE double precision float
3456	3459	Injectory Run Data	Additive 9 Non-resettable Total	IEEE double precision float



## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
3460	3463	Injectory Run Data	Additive 10 Non-resettable Total	IEEE double precision float
3464	3467	Injectory Run Data	Additive 11 Non-resettable Total	IEEE double precision float
3468	3471	Injectory Run Data	Additive 12 Non-resettable Total	IEEE double precision float
3472	3475	Injectory Run Data	Additive 13 Non-resettable Total	IEEE double precision float
3476	3479	Injectory Run Data	Additive 14 Non-resettable Total	IEEE double precision float
3480	3483	Injectory Run Data	Additive 15 Non-resettable Total	IEEE double precision float
3484	3487	Injectory Run Data	Additive 16 Non-resettable Total	IEEE double precision float
3488	3491	Injectory Run Data	Additive 17 Non-resettable Total	IEEE double precision float
3492	3495	Injectory Run Data	Additive 18 Non-resettable Total	IEEE double precision float
3496	3499	Injectory Run Data	Additive 19 Non-resettable Total	IEEE double precision float
3500	3503	Injectory Run Data	Additive 20 Non-resettable Total	IEEE double precision float
3504	3507	Injectory Run Data	Additive 21 Non-resettable Total	IEEE double precision float
3508	3511	Injectory Run Data	Additive 22 Non-resettable Total	IEEE double precision float
3512	3515	Injectory Run Data	Additive 23 Non-resettable Total	IEEE double precision float
3516	3519	Injectory Run Data	Additive 24 Non-resettable Total	IEEE double precision float
3584		Injector Run Data	Injector 1 Selected	unsigned character
3585		Injector Run Data	Injector 2 Selected	unsigned character
3586		Injector Run Data	Injector 3 Selected	unsigned character
3587		Injector Run Data	Injector 4 Selected	unsigned character
3588		Injector Run Data	Injector 5 Selected	unsigned character
3589		Injector Run Data	Injector 6 Selected	unsigned character
3590		Injector Run Data	Injector 7 Selected	unsigned character
3591		Injector Run Data	Injector 8 Selected	unsigned character
3592		Injector Run Data	Injector 9 Selected	unsigned character
3593		Injector Run Data	Injector 10 Selected	unsigned character
Modbus	Ending	Data Set	Data Point	Data Type

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Address	Address			
3594		Injector Run Data	Injector 11 Selected	unsigned character
3595		Injector Run Data	Injector 12 Selected	unsigned character
3596		Injector Run Data	Injector 13 Selected	unsigned character
3597		Injector Run Data	Injector 14 Selected	unsigned character
3598		Injector Run Data	Injector 15 Selected	unsigned character
3599		Injector Run Data	Injector 16 Selected	unsigned character
3600		Injector Run Data	Injector 17 Selected	unsigned character
3601		Injector Run Data	Injector 18 Selected	unsigned character
3602		Injector Run Data	Injector 19 Selected	unsigned character
3603		Injector Run Data	Injector 20 Selected	unsigned character
3604		Injector Run Data	Injector 21 Selected	unsigned character
3605		Injector Run Data	Injector 22 Selected	unsigned character
3606		Injector Run Data	Injector 23 Selected	unsigned character
3607		Injector Run Data	Injector 24 Selected	unsigned character
3648		Injector Run Data	Inj 1 Current # of Injections, batch	unsigned integer
3649		Injector Run Data	Inj 2 Current # of Injections, batch	unsigned integer
3650		Injector Run Data	Inj 3 Current # of Injections, batch	unsigned integer
3651		Injector Run Data	Inj 4 Current # of Injections, batch	unsigned integer
3652		Injector Run Data	Inj 5 Current # of Injections, batch	unsigned integer
3653		Injector Run Data	Inj 6 Current # of Injections, batch	unsigned integer
3654		Injector Run Data	Inj 7 Current # of Injections, batch	unsigned integer
3655		Injector Run Data	Inj 8 Current # of Injections, batch	unsigned integer
3656		Injector Run Data	Inj 9 Current # of Injections, batch	unsigned integer
3657		Injector Run Data	Inj 10 Current # of Injections, batch	unsigned integer
3658		Injector Run Data	Inj 11 Current # of Injections, batch	unsigned integer
3659		Injector Run Data	Inj 12 Current # of Injections, batch	unsigned integer
3660		Injector Run Data	Inj 13 Current # of Injections, batch	unsigned integer
Modbus Address	Ending Address	Data Set	Data Point	Data Type

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3661		Injector Run Data	Inj 14 Current # of Injections, batch	unsigned integer
3662		Injector Run Data	Inj 15 Current # of Injections, batch	unsigned integer
3663		Injector Run Data	Inj 16 Current # of Injections, batch	unsigned integer
3664		Injector Run Data	Inj 17 Current # of Injections, batch	unsigned integer
3665		Injector Run Data	Inj 18 Current # of Injections, batch	unsigned integer
3666		Injector Run Data	Inj 19 Current # of Injections, batch	unsigned integer
3667		Injector Run Data	Inj 20 Current # of Injections, batch	unsigned integer
3668		Injector Run Data	Inj 21 Current # of Injections, batch	unsigned integer
3669		Injector Run Data	Inj 22 Current # of Injections, batch	unsigned integer
3670		Injector Run Data	Inj 23 Current # of Injections, batch	unsigned integer
3671		Injector Run Data	Inj 24 Current # of Injections, batch	unsigned integer
3672		Injector Run Data	Inj 1 Current Feedback Errors	unsigned integer
3673		Injector Run Data	Inj 2 Current Feedback Errors	unsigned integer
3674		Injector Run Data	Inj 3 Current Feedback Errors	unsigned integer
3675		Injector Run Data	Inj 4 Current Feedback Errors	unsigned integer
3676		Injector Run Data	Inj 5 Current Feedback Errors	unsigned integer
3677		Injector Run Data	Inj 6 Current Feedback Errors	unsigned integer
3678		Injector Run Data	Inj 7 Current Feedback Errors	unsigned integer
3679		Injector Run Data	Inj 8 Current Feedback Errors	unsigned integer
3680		Injector Run Data	Inj 9 Current Feedback Errors	unsigned integer
3681		Injector Run Data	Inj 10 Current Feedback Errors	unsigned integer
3682		Injector Run Data	Inj 11 Current Feedback Errors	unsigned integer

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
3683		Injector Run Data	Inj 12 Current Feedback Errors	unsigned integer
3684		Injector Run Data	Inj 13 Current Feedback Errors	unsigned integer
3685		Injector Run Data	Inj 14 Current Feedback Errors	unsigned integer
3686		Injector Run Data	Inj 15 Current Feedback Errors	unsigned integer
3687		Injector Run Data	Inj 16 Current Feedback Errors	unsigned integer
3688		Injector Run Data	Inj 17 Current Feedback Errors	unsigned integer
3689		Injector Run Data	Inj 18 Current Feedback Errors	unsigned integer
3690		Injector Run Data	Inj 19 Current Feedback Errors	unsigned integer
3691		Injector Run Data	Inj 20 Current Feedback Errors	unsigned integer
3692		Injector Run Data	Inj 21 Current Feedback Errors	unsigned integer
3693		Injector Run Data	Inj 22 Current Feedback Errors	unsigned integer
3694		Injector Run Data	Inj 23 Current Feedback Errors	unsigned integer
3695		Injector Run Data	Inj 24 Current Feedback Errors	unsigned integer

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### *Transaction Run Data*

<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>
4096	4103	Transaction Run Data	1 <sup>st</sup> Alarm in Transaction	Text (char[16])
4104	4111	Transaction Run Data	2 <sup>nd</sup> Alarm in Transaction	Text (char[16])
4112	4119	Transaction Run Data	3 <sup>rd</sup> Alarm in Transaction	Text (char[16])
4120	4127	Transaction Run Data	4 <sup>th</sup> Alarm in Transaction	Text (char[16])
4128	4135	Transaction Run Data	5 <sup>th</sup> Alarm in Transaction	Text (char[16])
4136	4143	Transaction Run Data	6 <sup>th</sup> Alarm in Transaction	Text (char[16])
4144	4151	Transaction Run Data	7 <sup>th</sup> Alarm in Transaction	Text (char[16])
4152	4159	Transaction Run Data	8 <sup>th</sup> Alarm in Transaction	Text (char[16])
4160	4167	Transaction Run Data	9 <sup>th</sup> Alarm in Transaction	Text (char[16])
4168	4175	Transaction Run Data	10 <sup>th</sup> Alarm in Transaction	Text (char[16])
4176	4183	Transaction Run Data	11 <sup>th</sup> Alarm in Transaction	Text (char[16])
4184	4191	Transaction Run Data	12 <sup>th</sup> Alarm in Transaction	Text (char[16])
4192	4199	Transaction Run Data	13 <sup>th</sup> Alarm in Transaction	Text (char[16])
4200	4207	Transaction Run Data	14 <sup>th</sup> Alarm in Transaction	Text (char[16])
4208	4215	Transaction Run Data	15 <sup>th</sup> Alarm in Transaction	Text (char[16])
4216	4223	Transaction Run Data	16 <sup>th</sup> Alarm in Transaction	Text (char[16])
4224	4231	Transaction Run Data	17 <sup>th</sup> Alarm in Transaction	Text (char[16])
4232	4239	Transaction Run Data	18 <sup>th</sup> Alarm in Transaction	Text (char[16])
4240	4247	Transaction Run Data	19 <sup>th</sup> Alarm in Transaction	Text (char[16])
4248	4255	Transaction Run Data	20 <sup>th</sup> Alarm in Transaction	Text (char[16])
4264	4271	Transaction Run Data	Card Data (first 16 characters)	Text (char[16])
4272	4279	Transaction Run Data	Card Data (second 16 characters)	Text (char[16])
4280	4287	Transaction Run Data	Card Data (third 16 characters)	Text (char[16])
4288	4303	Transaction Run Data	Transaction End Time	Text (char[32])
4304	4319	Transaction Run Data	Transaction Start Time	Text (char[32])
4320	4335	Transaction Run Data	Alphanumeric Prompt Response #1	Text (char[32])
4336	4351	Transaction Run Data	Alphanumeric Prompt Response #2	Text (char[32])
4352	4353	Transaction Run Data	Load Average Meter Factor	IEEE single precision float
4354	4355	Transaction Run Data	Load Average Temperature	IEEE single precision float
4356	4357	Transaction Run Data	Load Average Density	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
4358	4359	Transaction Run Data	Load Average Pressure	IEEE single precision float
4360	4361	Transaction Run Data	Average CTL	IEEE single precision float
4362	4363	Transaction Run Data	Average CPL	IEEE single precision float
4364	4365	Transaction Run Data	Preset Volume	IEEE single precision float
4366	4367	Transaction Run Data	Current Flow Rate	IEEE single precision float
4368	4369	Transaction Run Data	Current Flow Rate Per Hour	IEEE single precision float
4370	4371	Transaction Run Data	Current Flow Rate Per Min	IEEE single precision float
4372	4373	Transaction Run Data	1 <sup>st</sup> Density Sample	IEEE single precision float
4374	4375	Transaction Run Data	2 <sup>nd</sup> Density Sample	IEEE single precision float
4376	4377	Transaction Run Data	3 <sup>rd</sup> Density Sample	IEEE single precision float
4378	4379	Transaction Run Data	4 <sup>th</sup> Density Sample	IEEE single precision float
4380	4381	Transaction Run Data	5 <sup>th</sup> Density Sample	IEEE single precision float
4382	4383	Transaction Run Data	6 <sup>th</sup> Density Sample	IEEE single precision float
4384	4385	Transaction Run Data	7 <sup>th</sup> Density Sample	IEEE single precision float
4386	4387	Transaction Run Data	8 <sup>th</sup> Density Sample	IEEE single precision float
4388	4389	Transaction Run Data	9 <sup>th</sup> Density Sample	IEEE single precision float
4390	4391	Transaction Run Data	10 <sup>th</sup> Density Sample	IEEE single precision float
4392	4393	Transaction Run Data	Prover Coefficient	IEEE single precision float
4394	4395	Transaction Run Data	Prove Average Meter Factor	IEEE single precision float
4396	4397	Transaction Run Data	Prove Old Meter Factor	IEEE single precision float
4398	4399	Transaction Run Data	Prove Meter Factor Flow Rate	IEEE single precision float
4398	4399	Transaction Run Data	Entered Preset	IEEE single precision float
4402	4403	Transaction Run Data	Algebraic User Float 96 Stored Value	IEEE single precision float
4404	4405	Transaction Run Data	Algebraic User Float 97 Stored Value	IEEE single precision float
4406	4407	Transaction Run Data	Algebraic User Float 98 Stored Value	IEEE single precision float
4408	4409	Transaction Run Data	Algebraic User Float 99 Stored Value	IEEE single precision float
4410	4411	Transaction Run Data	Algebraic User Float 100 Stored Value	IEEE single precision float
4480	4483	Transaction Run Data	Indicated Volume (IV)	IEEE double precision float
4484	4487	Transaction Run Data	Gross Volume (GV)	IEEE double precision float
4488	4491	Transaction Run Data	Gross @ Std Temp Volume (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
4492	4495	Transaction Run Data	Gross @ Std Temp & Press (GSV)	IEEE double precision float
4496	4499	Transaction Run Data	Mass	IEEE double precision float
4500	4503	Transaction Run Data	Remaining Volume	IEEE double precision float
4504	4507	Transaction Run Data	Additive 1 Volume	IEEE double precision float
4508	4511	Transaction Run Data	Additive 2 Volume	IEEE double precision float
4512	4515	Transaction Run Data	Additive 3 Volume	IEEE double precision float
4516	4519	Transaction Run Data	Additive 4 Volume	IEEE double precision float
4520	4523	Transaction Run Data	Additive 5 Volume	IEEE double precision float
4524	4527	Transaction Run Data	Additive 6 Volume	IEEE double precision float
4528	4531	Transaction Run Data	Additive 7 Volume	IEEE double precision float
4532	4535	Transaction Run Data	Additive 8 Volume	IEEE double precision float
4536	4539	Transaction Run Data	Additive 9 Volume	IEEE double precision float
4540	4543	Transaction Run Data	Additive 10 Volume	IEEE double precision float
4544	4547	Transaction Run Data	Additive 11 Volume	IEEE double precision float
4548	4551	Transaction Run Data	Additive 12 Volume	IEEE double precision float
4552	4555	Transaction Run Data	Additive 13 Volume	IEEE double precision float
4556	4559	Transaction Run Data	Additive 14 Volume	IEEE double precision float
4560	4563	Transaction Run Data	Additive 15 Volume	IEEE double precision float
4564	4567	Transaction Run Data	Additive 16 Volume	IEEE double precision float
4568	4571	Transaction Run Data	Additive 17 Volume	IEEE double precision float
4572	4575	Transaction Run Data	Additive 18 Volume	IEEE double precision float
4576	4579	Transaction Run Data	Additive 19 Volume	IEEE double precision float
4580	4583	Transaction Run Data	Additive 20 Volume	IEEE double precision float
4584	4587	Transaction Run Data	Additive 21 Volume	IEEE double precision float
4588	4591	Transaction Run Data	Additive 22 Volume	IEEE double precision float
4592	4595	Transaction Run Data	Additive 23 Volume	IEEE double precision float
4596	4599	Transaction Run Data	Additive 24 Volume	IEEE double precision float
4600	4603	Transaction Run Data	Straight arm with VRS Recovered Mass	IEEE double precision float
4604	4607	Transaction Run Data	Straight arm with VRS Net Mass	IEEE double precision float
4608	4611	Transaction Run Data	Straight with VRS End Non-Resettable Recovered Mass	IEEE double precision float
4612	4615	Transaction Run Data	Straight with VRS Start Non-Resettable Recovered Mass	IEEE double precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
4800		Transaction Run Data	Firmware Revision (Major)	unsigned character
4801		Transaction Run Data	Batch Status	unsigned character
4802		Transaction Run Data	Pump Status	unsigned character
4803		Transaction Run Data	Swing Arm Position	unsigned character
4804		Transaction Run Data	Firmware Revision (Minor)	unsigned character
4805		Transaction Run Data	Unload Product	unsigned character
4806		Transaction Run Data	Prove Product	unsigned character
4807		Transaction Run Data	Prove Meter Factor #	unsigned character
4808		Transaction Run Data	Prove Trip #	unsigned character
4809		Transaction Run Data	Prove Meter Factor Stored	unsigned character
4810		Transaction Run Data	Archived User Bool 96 value	unsigned character
4811		Transaction Run Data	Archived User Bool 97 value	unsigned character
4812		Transaction Run Data	Archived User Bool 98 value	unsigned character
4813		Transaction Run Data	Archived User Bool 99 value	unsigned character
4814		Transaction Run Data	Archived User Bool 100 value	unsigned character
4864		Transaction Run Data	Transaction Number	unsigned integer
4865		Transaction Run Data	Total Number of Batches	unsigned integer
4866		Transaction Run Data	Transaction Start Year	unsigned integer
4867		Transaction Run Data	Transaction Start Month	unsigned integer
4868		Transaction Run Data	Transaction Start Day	unsigned integer
4869		Transaction Run Data	Transaction Start Weekday	unsigned integer
4870		Transaction Run Data	Transaction Start Second	unsigned integer
4871		Transaction Run Data	Transaction Start Minute	unsigned integer
4872		Transaction Run Data	Transaction Start Hour	unsigned integer
4873		Transaction Run Data	Transaction End Year	unsigned integer
4874		Transaction Run Data	Transaction End Month	unsigned integer
4875		Transaction Run Data	Transaction End Day	unsigned integer
4876		Transaction Run Data	Transaction End Weekday	unsigned integer
4877		Transaction Run Data	Transaction End Second	unsigned integer
4878		Transaction Run Data	Transaction End Minute	unsigned integer
4879		Transaction Run Data	Transaction End Hour	unsigned integer
4928	4929	Transaction Run Data	ROM CRC	unsigned long integer



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
4930	4931	Transaction Run Data	Prompt Response Data 1	unsigned long integer
4932	4933	Transaction Run Data	Prompt Response Data 2	unsigned long integer
4934	4935	Transaction Run Data	Prompt Response Data 3	unsigned long integer
4936	4937	Transaction Run Data	Prompt Response Data 4	unsigned long integer
4938	4939	Transaction Run Data	Prompt Response Data 5	unsigned long integer
4940	4941	Transaction Run Data	Preliminary Prompt Response Data 1	unsigned long integer
4942	4943	Transaction Run Data	Preliminary Prompt Response Data 2	unsigned long integer
4944	4945	Transaction Run Data	Preliminary Prompt Response Data 3	unsigned long integer
4946	4947	Transaction Run Data	Preliminary Prompt Response Data 4	unsigned long integer
4948	4949	Transaction Run Data	Preliminary Prompt Response Data 5	unsigned long integer
4950	4951	Transaction Run Data	Most Recent Transaction Sequence Number	unsigned long integer
4992	5007	Transaction Run Data	Alphanumeric Prompt Response #3	Text(char[32])
5008	5023	Transaction Run Data	Alphanumeric Prompt Response #4	Text(char[32])
5024	5039	Transaction Run Data	Alphanumeric Prompt Response #5	Text(char[32])
5040	5055	Transaction Run Data	Prove Time	Text(char[32])
5056	5071	Transaction Run Data	Data User Field 1 Value for Card	Text(char[32])
5072	5087	Transaction Run Data	Data User Field 2 Value for Card	Text(char[32])
5088	5103	Transaction Run Data	Data User Field 3 Value for Card	Text(char[32])
5104	5119	Transaction Run Data	Database HID Factory Code for Card	Text(char[32])
5120	5135	Transaction Run Data	HID Card Number	Text(char[32])
5136	5151	Transaction Run Data	Archived User Text field 1	Text(char[32])
5152	5167	Transaction Run Data	Archived User Text field 2	Text(char[32])
5168	5183	Transaction Run Data	Archived User Text field 3	Text(char[32])
5184	5185	Meter 1 Run Data	Analog Valve %	IEEE single precision float
5186	5187	Meter 1 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
5188	5189	Meter 1 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
5190	5191	Meter 1 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
5192	5193	Meter 1 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float
5194	5195	Meter 1 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float
5196	5197	Meter 1 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
5198	5199	Meter 1 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
5200	5201	Meter 1 Run Data	Control Valve Diagnostic – Valve Close Time	IEEE single precision float
5202	5203	Meter 1 Run Data	Control Valve Diagnostic – Valve Close Amount	IEEE single precision float
5204	5205	Meter 1 Run Data	Control Valve Diagnostic – Valve Close Flow Rate	IEEE single precision float
5248		Meter 1 Run Data	Valve Status	unsigned character
5249		Meter 1 Run Data	Turbine Meter Diagnostic State	unsigned character
5250		Meter 1 Run Data	Turbine Meter Diagnostic Status	unsigned character
5312	5313	Meter 2 Run Data	Analog Valve %	IEEE single precision float
5314	5315	Meter 2 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
5316	5317	Meter 2 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float
5318	5319	Meter 2 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
5320	5321	Meter 2 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float
5322	5323	Meter 2 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float
5324	5325	Meter 2 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
5326	5327	Meter 2 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
5328	5329	Meter 2 Run Data	Control Valve Diagnostic – Valve Close Time	IEEE single precision float
5330	5331	Meter 2 Run Data	Control Valve Diagnostic – Valve Close Amount	IEEE single precision float
5332	5333	Meter 2 Run Data	Control Valve Diagnostic – Valve Close Flow Rate	IEEE single precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
5376		Meter 2 Run Data	Valve Status	unsigned character
5377		Meter 2 Run Data	Turbine Meter Diagnostic State	unsigned character
5378		Meter 2 Run Data	Turbine Meter Diagnostic Status	unsigned character
5440	5441	Meter 3 Run Data	Analog Valve %	IEEE single precision float
5442	5443	Meter 3 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
5444	5445	Meter 3 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float
5446	5447	Meter 3 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
5448	5449	Meter 3 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float
5450	5451	Meter 3 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float
5452	5453	Meter 3 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
5454	5455	Meter 3 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
5456	5457	Meter 3 Run Data	Control Valve Diagnostic – Valve Close Time	IEEE single precision float
5458	5459	Meter 3 Run Data	Control Valve Diagnostic – Valve Close Amount	IEEE single precision float
5460	5461	Meter 3 Run Data	Control Valve Diagnostic – Valve Close Flow Rate	IEEE single precision float
5504		Meter 3 Run Data	Valve Status	unsigned character
5505		Meter 3 Run Data	Turbine Meter Diagnostic State	unsigned character
5506		Meter 3 Run Data	Turbine Meter Diagnostic Status	unsigned character
5568	5569	Meter 4 Run Data	Analog Valve %	IEEE single precision float
5570	5571	Meter 4 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
5572	5573	Meter 4 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float
5574	5575	Meter 4 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
5576	5577	Meter 4 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float
5578	5579	Meter 4 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float

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5580	5581	Meter 4 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
5582	5583	Meter 4 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
5584	5585	Meter 4 Run Data	Control Valve Diagnostic – Valve Close Time	IEEE single precision float
5586	5587	Meter 4 Run Data	Control Valve Diagnostic – Valve Close Amount	IEEE single precision float
5588	5589	Meter 4 Run Data	Control Valve Diagnostic – Valve Close Flow Rate	IEEE single precision float
5632		Meter 4 Run Data	Valve Status	unsigned character
5633		Meter 4 Run Data	Turbine Meter Diagnostic State	unsigned character
5634		Meter 4 Run Data	Turbine Meter Diagnostic Status	unsigned character

**Note:** Registers for Meter 5 and 6 Run Data Start Up page 385.

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
5696	5699	Product 1 Run Data	Prd Indicated Volume (IV)	IEEE double precision float
5700	5703	Product 1 Run Data	Prd Gross Volume (GV)	IEEE double precision float
5704	5707	Product 1 Run Data	Prd Gross @ Std Temp Volume (GST)	IEEE double precision float
5708	5711	Product 1 Run Data	Prd Gross @ Std Temp & Pressure (GSV)	IEEE double precision float
5712	5715	Product 1 Run Data	Product Mass	IEEE double precision float
5716	5719	Product 1 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
5720	5723	Product 1 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
5724	5727	Product 1 Run Data	Product GST Non-resettable Volume	IEEE double precision float
5728	5731	Product 1 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
5732	5735	Product 1 Run Data	Product Mass Non-resettable Total	IEEE double precision float
5760	5763	Product 2 Run Data	Product Indicated Volume (IV)	IEEE double precision float
5764	5767	Product 2 Run Data	Product Gross Volume (GV)	IEEE double precision float
5768	5771	Product 2 Run Data	Product Gross @ Std Temp Volume (GST)	IEEE double precision float
5772	5775	Product 2 Run Data	Product Gross @ Std Temp & Press (GSV)	IEEE double precision float
5776	5779	Product 2 Run Data	Product Mass	IEEE double precision float
5780	5783	Product 2 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
5784	5787	Product 2 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
5788	5791	Product 2 Run Data	Product GST Non-resettable Volume	IEEE double precision float
5792	5795	Product 2 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
5796	5799	Product 2 Run Data	Product Mass Non-resettable Total	IEEE double precision float
5824	5827	Product 3 Run Data	Product Indicated Volume (IV)	IEEE double precision float
5828	5831	Product 3 Run Data	Product Gross Volume (GV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
5832	5835	Product 3 Run Data	Product Gross @ Std Temp Volume (GST)	IEEE double precision float
5836	5839	Product 3 Run Data	Product Gross @ Std Temp & Press (GSV)	IEEE double precision float
5840	5843	Product 3 Run Data	Product Mass	IEEE double precision float
5844	5847	Product 3 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
5848	5851	Product 3 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
5852	5855	Product 3 Run Data	Product GST Non-resettable Volume	IEEE double precision float
5856	5859	Product 3 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
5860	5863	Product 3 Run Data	Product Mass Non-resettable Total	IEEE double precision float
5888	5891	Product 4 Run Data	Product Indicated Volume (IV)	IEEE double precision float
5892	5895	Product 4 Run Data	Product Gross Volume (GV)	IEEE double precision float
5896	5899	Product 4 Run Data	Product Gross @ Std Temp Volume (GST)	IEEE double precision float
5900	5903	Product 4 Run Data	Product Gross @ Std Temp & Press (GSV)	IEEE double precision float
5904	5907	Product 4 Run Data	Product Mass	IEEE double precision float
5908	5911	Product 4 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
5912	5915	Product 4 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
5916	5919	Product 4 Run Data	Product GST Non-resettable Volume	IEEE double precision float
5920	5923	Product 4 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
5924	5927	Product 4 Run Data	Product Mass Non-resettable Total	IEEE double precision float
5952	5955	Product 5 Run Data	Product Indicated Volume (IV)	IEEE double precision float
5956	5959	Product 5 Run Data	Product Gross Volume (GV)	IEEE double precision float
5960	5963	Product 5 Run Data	Product Gross @ Std Temp Volume (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
5964	5967	Product 5 Run Data	Product Gross @ Std Temp & Press (GSV)	IEEE double precision float
5968	5971	Product 5 Run Data	Product Mass	IEEE double precision float
5972	5975	Product 5 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
5976	5979	Product 5 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
5980	5983	Product 5 Run Data	Product GST Non-resettable Volume	IEEE double precision float
5984	5987	Product 5 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
5988	5991	Product 5 Run Data	Product Mass Non-resettable Total	IEEE double precision float
6016	6019	Product 6 Run Data	Product Indicated Volume (IV)	IEEE double precision float
6020	6023	Product 6 Run Data	Product Gross Volume (GV)	IEEE double precision float
6024	6027	Product 6 Run Data	Product Gross @ Std Temp Volume (GST)	IEEE double precision float
6028	6031	Product 6 Run Data	Product Gross @ Std Temp & Press (GSV)	IEEE double precision float
6032	6035	Product 6 Run Data	Product Mass	IEEE double precision float
6036	6039	Product 6 Run Data	Product Indicated Non-resettable Volume	IEEE double precision float
6040	6043	Product 6 Run Data	Product Gross Non-resettable Volume	IEEE double precision float
6044	6047	Product 6 Run Data	Product GST Non-resettable Volume	IEEE double precision float
6048	6051	Product 6 Run Data	Product GSV Non-resettable Volume	IEEE double precision float
6052	6055	Product 6 Run Data	Product Mass Non-resettable Total	IEEE double precision float
6056	6059	Vapor Recovered Mass Run Data	Vapor Recovered Mass Non-Resettable Total	IEEE double precision float
6080	6081	Product 1 Run Data	Product Leakage Pulses	unsigned long integer
6144	6145	Product 2 Run Data	Product Leakage Pulses	unsigned long integer
6208	6209	Product 3 Run Data	Product Leakage Pulses	unsigned long integer
6272	6273	Product 4 Run Data	Product Leakage Pulses	unsigned long integer
6336	6337	Product 5 Run Data	Product Leakage Pulses	unsigned long integer
6400	6401	Product 6 Run Data	Product Leakage Pulses	unsigned long integer
6464	6465	Product 1 Run Data	Current Product Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
6466	6467	Product 1 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float
6468	6469	Product 1 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6470	6471	Product 1 Run Data	Current Product Meter Factor	IEEE single precision float
6472	6473	Product 1 Run Data	Current Product Temperature	IEEE single precision float
6474	6475	Product 1 Run Data	Current Product Density	IEEE single precision float
6476	6477	Product 1 Run Data	Current Product Pressure	IEEE single precision float
6478	6479	Product 1 Run Data	Current Product Vapor Pressure	IEEE single precision float
6480	6481	Product 1 Run Data	Current Product Blend Ratio	IEEE single precision float
6482	6483	Product 1 Run Data	Current Reference Density	IEEE single precision float
6528	6529	Product 2 Run Data	Current Product Flow Rate	IEEE single precision float
6530	6531	Product 2 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float
6532	6533	Product 2 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6534	6535	Product 2 Run Data	Current Product Meter Factor	IEEE single precision float
6536	6537	Product 2 Run Data	Current Product Temperature	IEEE single precision float
6538	6539	Product 2 Run Data	Current Product Density	IEEE single precision float
6540	6541	Product 2 Run Data	Current Product Pressure	IEEE single precision float
6542	6543	Product 2 Run Data	Current Product Vapor Pressure	IEEE single precision float
6544	6545	Product 2 Run Data	Current Product Blend Ratio	IEEE single precision float
6546	6547	Product 2 Run Data	Current Reference Density	IEEE single precision float
6592	6593	Product 3 Run Data	Current Product Flow Rate	IEEE single precision float
6594	6595	Product 3 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float
6596	6597	Product 3 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6598	6599	Product 3 Run Data	Current Product Meter Factor	IEEE single precision float
6600	6601	Product 3 Run Data	Current Product Temperature	IEEE single precision float
6602	6603	Product 3 Run Data	Current Product Density	IEEE single precision float
6604	6605	Product 3 Run Data	Current Product Pressure	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
6606	6607	Product 3 Run Data	Current Product Vapor Pressure	IEEE single precision float
6608	6609	Product 3 Run Data	Current Product Blend Ratio	IEEE single precision float
6610	6611	Product 3 Run Data	Current Reference Density	IEEE single precision float
6656	6657	Product 4 Run Data	Current Product Flow Rate	IEEE single precision float
6658	6659	Product 4 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float
6660	6661	Product 4 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6662	6663	Product 4 Run Data	Current Product Meter Factor	IEEE single precision float
6664	6665	Product 4 Run Data	Current Product Temperature	IEEE single precision float
6666	6667	Product 4 Run Data	Current Product Density	IEEE single precision float
6668	6669	Product 4 Run Data	Current Product Pressure	IEEE single precision float
6670	6671	Product 4 Run Data	Current Product Vapor Pressure	IEEE single precision float
6672	6673	Product 4 Run Data	Current Product Blend Ratio	IEEE single precision float
6674	6675	Product 4 Run Data	Current Reference Density	IEEE single precision float
6720	6721	Product 5 Run Data	Current Product Flow Rate	IEEE single precision float
6722	6723	Product 5 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float
6724	6725	Product 5 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6726	6727	Product 5 Run Data	Current Product Meter Factor	IEEE single precision float
6728	6729	Product 5 Run Data	Current Product Temperature	IEEE single precision float
6730	6731	Product 5 Run Data	Current Product Density	IEEE single precision float
6732	6733	Product 5 Run Data	Current Product Pressure	IEEE single precision float
6734	6735	Product 5 Run Data	Current Product Vapor Pressure	IEEE single precision float
6736	6737	Product 5 Run Data	Current Product Blend Ratio	IEEE single precision float
6738	6739	Product 5 Run Density	Current Reference Density	IEEE single precision float
6784	6785	Product 6 Run Data	Current Product Flow Rate	IEEE single precision float
6786	6787	Product 6 Run Data	Current Product Flow Rate Per Hour	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
6788	6789	Product 6 Run Data	Current Product Flow Rate Per Minute	IEEE single precision float
6790	6791	Product 6 Run Data	Current Product Meter Factor	IEEE single precision float
6792	6793	Product 6 Run Data	Current Product Temperature	IEEE single precision float
6794	6795	Product 6 Run Data	Current Product Density	IEEE single precision float
6796	6797	Product 6 Run Data	Current Product Pressure	IEEE single precision float
6798	6799	Product 6 Run Data	Current Product Vapor Pressure	IEEE single precision float
6800	6801	Product 6 Run Data	Current Product Blend Ratio	IEEE single precision float
6802	6803	Product 6 Run Data	Current Reference Density	IEEE single precision float
7168	7175	Trans Run Data Batch 1	1 <sup>st</sup> Alarm in Batch	Text (char[16])
7176	7183	Trans Run Data Batch 1	2 <sup>nd</sup> Alarm in Batch	Text (char[16])
7184	7191	Trans Run Data Batch 1	3 <sup>rd</sup> Alarm in Batch	Text (char[16])
7192	7199	Trans Run Data Batch 1	4 <sup>th</sup> Alarm in Batch	Text (char[16])
7200	7207	Trans Run Data Batch 1	5 <sup>th</sup> Alarm in Batch	Text (char[16])
7208	7215	Trans Run Data Batch 1	6 <sup>th</sup> Alarm in Batch	Text (char[16])
7216	7223	Trans Run Data Batch 1	7 <sup>th</sup> Alarm in Batch	Text (char[16])
7224	7231	Trans Run Data Batch 1	8 <sup>th</sup> Alarm in Batch	Text (char[16])
7232	7239	Trans Run Data Batch 1	9 <sup>th</sup> Alarm in Batch	Text (char[16])
7240	7247	Trans Run Data Batch 1	10 <sup>th</sup> Alarm in Batch	Text (char[16])
7296	7297	Trans Run Data Batch 1	Average Flow Rate	IEEE single precision float
7298	7299	Trans Run Data Batch 1	Load Average Meter Factor	IEEE single precision float
7300	7301	Trans Run Data Batch 1	Load Average Temperature	IEEE single precision float
7302	7303	Trans Run Data Batch 1	Load Average Density	IEEE single precision float
7304	7305	Trans Run Data Batch 1	Load Average Pressure	IEEE single precision float
7306	7307	Trans Run Data Batch 1	Average CTL	IEEE single precision float
7308	7309	Trans Run Data Batch 1	Average CPL	IEEE single precision float
7310	7311	Trans Run Data Batch 1	Contaminant Percentage	IEEE single precision float
7312	7313	Trans Run Data Batch 1	Last Density Sample	IEEE single precision float
7360	7363	Trans Run Data Batch 1	Total Pulses	IEEE double precision float
7364	7367	Trans Run Data Batch 1	Indicated Volume (IV)	IEEE double precision float
7368	7371	Trans Run Data Batch 1	Gross Volume (GV)	IEEE double precision float
7372	7375	Trans Run Data Batch 1	Gross Volume @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
7376	7379	Trans Run Data Batch 1	Gross @ Std Temp (GST)	IEEE double precision float
7380	7383	Trans Run Data Batch 1	Mass Total	IEEE double precision float
7384	7387	Trans Run Data Batch 1	Additive 1 Volume	IEEE double precision float
7388	7391	Trans Run Data Batch 1	Additive 2 Volume	IEEE double precision float
7392	7395	Trans Run Data Batch 1	Additive 3 Volume	IEEE double precision float
7396	7399	Trans Run Data Batch 1	Additive 4 Volume	IEEE double precision float
7400	7403	Trans Run Data Batch 1	Additive 5 Volume	IEEE double precision float
7404	7407	Trans Run Data Batch 1	Additive 6 Volume	IEEE double precision float
7408	7411	Trans Run Data Batch 1	Additive 7 Volume	IEEE double precision float
7412	7415	Trans Run Data Batch 1	Additive 8 Volume	IEEE double precision float
7416	7419	Trans Run Data Batch 1	Additive 9 Volume	IEEE double precision float
7420	7423	Trans Run Data Batch 1	Additive 10 Volume	IEEE double precision float
7424	7427	Trans Run Data Batch 1	Additive 11 Volume	IEEE double precision float
7428	7431	Trans Run Data Batch 1	Additive 12 Volume	IEEE double precision float
7432	7435	Trans Run Data Batch 1	Additive 13 Volume	IEEE double precision float
7436	7439	Trans Run Data Batch 1	Additive 14 Volume	IEEE double precision float
7440	7443	Trans Run Data Batch 1	Additive 15 Volume	IEEE double precision float
7444	7447	Trans Run Data Batch 1	Additive 16 Volume	IEEE double precision float
7448	7451	Trans Run Data Batch 1	Additive 17 Volume	IEEE double precision float
7452	7455	Trans Run Data Batch 1	Additive 18 Volume	IEEE double precision float
7456	7459	Trans Run Data Batch 1	Additive 19 Volume	IEEE double precision float
7460	7463	Trans Run Data Batch 1	Additive 20 Volume	IEEE double precision float
7464	7467	Trans Run Data Batch 1	Additive 21 Volume	IEEE double precision float
7468	7471	Trans Run Data Batch 1	Additive 22 Volume	IEEE double precision float
7472	7475	Trans Run Data Batch 1	Additive 23 Volume	IEEE double precision float
7476	7479	Trans Run Data Batch 1	Additive 24 Volume	IEEE double precision float
7480	7483	Trans Run Data Batch 1	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
7484	7487	Trans Run Data Batch 1	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
7488	7491	Trans Run Data Batch 1	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
7492	7495	Trans Run Data Batch 1	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
7496	7499	Trans Run Data Batch 1	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
7500	7503	Trans Run Data Batch 1	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
7504	7507	Trans Run Data Batch 1	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
7508	7511	Trans Run Data Batch 1	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
7512	7515	Trans Run Data Batch 1	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
7516	7519	Trans Run Data Batch 1	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
7520	7523	Trans Run Data Batch 1	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
7524	7527	Trans Run Data Batch 1	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
7528	7531	Trans Run Data Batch 1	Flow Controlled Additive #1 Mass	IEEE double precision float
7532	7535	Trans Run Data Batch 1	Flow Controlled Additive #2 Mass	IEEE double precision float
7536	7539	Trans Run Data Batch 1	Flow Controlled Additive #3 Mass	IEEE double precision float
7540	7543	Trans Run Data Batch 1	Flow Controlled Additive #4 Mass	IEEE double precision float
7544	7547	Trans Run Data Batch 1	Straight Arm with VRS Recovered Mass	IEEE double precision float
7548	7551	Trans Run Data Batch 1	Straight Arm with VRS Net Mass	IEEE double precision float
7680		Trans Run Data Batch 1	Product Number	unsigned character
7681		Trans Run Data Batch 1	Recipe Number ("1" based; 1 = recipe 1)	unsigned character
7682		Trans Run Data Batch 1	HM Class Product	unsigned character
7683		Trans Run Data Batch 1	Batch Number	unsigned character
7684		Trans Run Data Batch 1	Prove Trip Accepted	Unsigned character
7685		Trans Run Data Batch 1	Batch Load Arm	Unsigned character
7744	7745	Trans Run Data Batch 1	Additive Mask	unsigned long integer
8064	8065	Trans Run Data Batch 1	P1 Average Flow Rate	IEEE single precision float
8066	8067	Trans Run Data Batch 1	P2 Average Flow Rate	IEEE single precision float
8068	8069	Trans Run Data Batch 1	P3 Average Flow Rate	IEEE single precision float
8070	8071	Trans Run Data Batch 1	P4 Average Flow Rate	IEEE single precision float
8072	8073	Trans Run Data Batch 1	P5 Average Flow Rate	IEEE single precision float
8074	8075	Trans Run Data Batch 1	P6 Average Flow Rate	IEEE single precision float
8076	8077	Trans Run Data Batch 1	P1 Load Average Meter Factor	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8078	8079	Trans Run Data Batch 1	P2 Load Average Meter Factor	IEEE single precision float
8080	8081	Trans Run Data Batch 1	P3 Load Average Meter Factor	IEEE single precision float
8082	8083	Trans Run Data Batch 1	P4 Load Average Meter Factor	IEEE single precision float
8084	8085	Trans Run Data Batch 1	P5 Load Average Meter Factor	IEEE single precision float
8086	8087	Trans Run Data Batch 1	P6 Load Average Meter Factor	IEEE single precision float
8088	8089	Trans Run Data Batch 1	P1 Load Average Temperature	IEEE single precision float
8090	8091	Trans Run Data Batch 1	P2 Load Average Temperature	IEEE single precision float
8092	8093	Trans Run Data Batch 1	P3 Load Average Temperature	IEEE single precision float
8094	8095	Trans Run Data Batch 1	P4 Load Average Temperature	IEEE single precision float
8096	8097	Trans Run Data Batch 1	P5 Load Average Temperature	IEEE single precision float
8098	8099	Trans Run Data Batch 1	P6 Load Average Temperature	IEEE single precision float
8100	8101	Trans Run Data Batch 1	P1 Load Average Density	IEEE single precision float
8102	8103	Trans Run Data Batch 1	P2 Load Average Density	IEEE single precision float
8104	8105	Trans Run Data Batch 1	P3 Load Average Density	IEEE single precision float
8106	8107	Trans Run Data Batch 1	P4 Load Average Density	IEEE single precision float
8108	8109	Trans Run Data Batch 1	P5 Load Average Density	IEEE single precision float
8110	8111	Trans Run Data Batch 1	P6 Load Average Density	IEEE single precision float
8112	8113	Trans Run Data Batch 1	P1 Load Average Pressure	IEEE single precision float
8114	8115	Trans Run Data Batch 1	P2 Load Average Pressure	IEEE single precision float
8116	8117	Trans Run Data Batch 1	P3 Load Average Pressure	IEEE single precision float
8118	8119	Trans Run Data Batch 1	P4 Load Average Pressure	IEEE single precision float
8120	8121	Trans Run Data Batch 1	P5 Load Average Pressure	IEEE single precision float
8122	8123	Trans Run Data Batch 1	P6 Load Average Pressure	IEEE single precision float
8124	8125	Trans Run Data Batch 1	P1 Average CTL	IEEE single precision float
8126	8127	Trans Run Data Batch 1	P2 Average CTL	IEEE single precision float
8128	8129	Trans Run Data Batch 1	P3 Average CTL	IEEE single precision float
8130	8131	Trans Run Data Batch 1	P4 Average CTL	IEEE single precision float
8132	8133	Trans Run Data Batch 1	P5 Average CTL	IEEE single precision float
8134	8135	Trans Run Data Batch 1	P6 Average CTL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8136	8137	Trans Run Data Batch 1	P1 Average CPL	IEEE single precision float
8138	8139	Trans Run Data Batch 1	P2 Average CPL	IEEE single precision float
8140	8141	Trans Run Data Batch 1	P3 Average CPL	IEEE single precision float
8142	8143	Trans Run Data Batch 1	P4 Average CPL	IEEE single precision float
8144	8145	Trans Run Data Batch 1	P5 Average CPL	IEEE single precision float
8146	8147	Trans Run Data Batch 1	P6 Average CPL	IEEE single precision float
8148	8149	Trans Run Data Batch 1	P1 CCF	IEEE single precision float
8150	8151	Trans Run Data Batch 1	P2 CCF	IEEE single precision float
8152	8153	Trans Run Data Batch 1	P3 CCF	IEEE single precision float
8154	8155	Trans Run Data Batch 1	P4 CCF	IEEE single precision float
8156	8157	Trans Run Data Batch 1	P5 CCF	IEEE single precision float
8158	8159	Trans Run Data Batch 1	P6 CCF	IEEE single precision float
8160	8161	Trans Run Data Batch 1	P1 Average Reference Density	IEEE single precision float
8162	8163	Trans Run Data Batch 1	P2 Average Reference Density	IEEE single precision float
8164	8165	Trans Run Data Batch 1	P3 Average Reference Density	IEEE single precision float
8166	8167	Trans Run Data Batch 1	P4 Average Reference Density	IEEE single precision float
8168	8169	Trans Run Data Batch 1	P5 Average Reference Density	IEEE single precision float
8170	8171	Trans Run Data Batch 1	P6 Average Reference Density	IEEE single precision float
8172	8173	Trans Run Data Batch 1	P1 Average Relative Density	IEEE single precision float
8174	8175	Trans Run Data Batch 1	P2 Average Relative Density	IEEE single precision float
8176	8177	Trans Run Data Batch 1	P3 Average Relative Density	IEEE single precision float
8178	8179	Trans Run Data Batch 1	P4 Average Relative Density	IEEE single precision float
8180	8181	Trans Run Data Batch 1	P5 Average Relative Density	IEEE single precision float
8182	8183	Trans Run Data Batch 1	P6 Average Relative Density	IEEE single precision float
8184	8185	Trans Run Data Batch 1	P1 Average API @ Reference Temp	IEEE single precision float
8186	8187	Trans Run Data Batch 1	P2 Average API @ Reference Temp	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8188	8189	Trans Run Data Batch 1	P3 Average API @ Reference Temp	IEEE single precision float
8190	8191	Trans Run Data Batch 1	P4 Average API @ Reference Temp	IEEE single precision float
8192	8193	Trans Run Data Batch 1	P5 Average API @ Reference Temp	IEEE single precision float
8194	8195	Trans Run Data Batch 1	P6 Average API @ Reference Temp	IEEE single precision float
8196	8197	Trans Run Data Batch 1	P1 Average Vapor Pressure	IEEE single precision float
8198	8199	Trans Run Data Batch 1	P2 Average Vapor Pressure	IEEE single precision float
8200	8201	Trans Run Data Batch 1	P3 Average Vapor Pressure	IEEE single precision float
8202	8203	Trans Run Data Batch 1	P4 Average Vapor Pressure	IEEE single precision float
8204	8205	Trans Run Data Batch 1	P5 Average Vapor Pressure	IEEE single precision float
8206	8207	Trans Run Data Batch 1	P6 Average Vapor Pressure	IEEE single precision float
8208	8209	Trans Run Data Batch 1	P1 Average CTPL	IEEE single precision float
8210	8211	Trans Run Data Batch 1	P2 Average CTPL	IEEE single precision float
8212	8213	Trans Run Data Batch 1	P3 Average CTPL	IEEE single precision float
8214	8215	Trans Run Data Batch 1	P4 Average CTPL	IEEE single precision float
8216	8217	Trans Run Data Batch 1	P5 Average CTPL	IEEE single precision float
8218	8219	Trans Run Data Batch 1	P6 Average CTPL	IEEE single precision float
8384	8387	Trans Run Data Batch 1	Batch P1 Total Pulses	IEEE double precision float
8388	8391	Trans Run Data Batch 1	Batch P2 Total Pulses	IEEE double precision float
8392	8395	Trans Run Data Batch 1	Batch P3 Total Pulses	IEEE double precision float
8396	8399	Trans Run Data Batch 1	Batch P4 Total Pulses	IEEE double precision float
8400	8403	Trans Run Data Batch 1	Batch P5 Total Pulses	IEEE double precision float
8404	8407	Trans Run Data Batch 1	Batch P6 Total Pulses	IEEE double precision float
8408	8411	Trans Run Data Batch 1	Batch P1 Indicated Volume (IV)	IEEE double precision float
8412	8415	Trans Run Data Batch 1	Batch P2 Indicated Volume (IV)	IEEE double precision float
8416	8419	Trans Run Data Batch 1	Batch P3 Indicated Volume (IV)	IEEE double precision float
8420	8423	Trans Run Data Batch 1	Batch P4 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8424	8427	Trans Run Data Batch 1	Batch P5 Indicated Volume (IV)	IEEE double precision float
8428	8431	Trans Run Data Batch 1	Batch P6 Indicated Volume (IV)	IEEE double precision float
8432	8435	Trans Run Data Batch 1	Batch P1 Gross Volume (GV)	IEEE double precision float
8436	8439	Trans Run Data Batch 1	Batch P2 Gross Volume (GV)	IEEE double precision float
8440	8443	Trans Run Data Batch 1	Batch P3 Gross Volume (GV)	IEEE double precision float
8444	8447	Trans Run Data Batch 1	Batch P4 Gross Volume (GV)	IEEE double precision float
8448	8451	Trans Run Data Batch 1	Batch P5 Gross Volume (GV)	IEEE double precision float
8452	8455	Trans Run Data Batch 1	Batch P6 Gross Volume (GV)	IEEE double precision float
8456	8459	Trans Run Data Batch 1	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
8460	8463	Trans Run Data Batch 1	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
8464	8467	Trans Run Data Batch 1	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
8468	8471	Trans Run Data Batch 1	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
8472	8475	Trans Run Data Batch 1	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
8476	8479	Trans Run Data Batch 1	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
8480	8483	Trans Run Data Batch 1	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8484	8487	Trans Run Data Batch 1	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8488	8491	Trans Run Data Batch 1	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8492	8495	Trans Run Data Batch 1	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8496	8499	Trans Run Data Batch 1	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8500	8503	Trans Run Data Batch 1	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
8504	8507	Trans Run Data Batch 1	Batch P1 Mass Total	IEEE double precision float
8508	8511	Trans Run Data Batch 1	Batch P2 Mass Total	IEEE double precision float
8512	8515	Trans Run Data Batch 1	Batch P3 Mass Total	IEEE double precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8516	8519	Trans Run Data Batch 1	Batch P4 Mass Total	IEEE double precision float
8520	8523	Trans Run Data Batch 1	Batch P5 Mass Total	IEEE double precision float
8524	8527	Trans Run Data Batch 1	Batch P6 Mass Total	IEEE double precision float
8704	8711	Trans Run Data Batch 2	1 <sup>st</sup> Alarm in Batch	Text (char[16])
8712	8719	Trans Run Data Batch 2	2 <sup>nd</sup> Alarm in Batch	Text (char[16])
8720	8727	Trans Run Data Batch 2	3 <sup>rd</sup> Alarm in Batch	Text (char[16])
8728	8735	Trans Run Data Batch 2	4 <sup>th</sup> Alarm in Batch	Text (char[16])
8736	8743	Trans Run Data Batch 2	5 <sup>th</sup> Alarm in Batch	Text (char[16])
8744	8751	Trans Run Data Batch 2	6 <sup>th</sup> Alarm in Batch	Text (char[16])
8752	8759	Trans Run Data Batch 2	7 <sup>th</sup> Alarm in Batch	Text (char[16])
8760	8767	Trans Run Data Batch 2	8 <sup>th</sup> Alarm in Batch	Text (char[16])
8768	8775	Trans Run Data Batch 2	9 <sup>th</sup> Alarm in Batch	Text (char[16])
8776	8783	Trans Run Data Batch 2	10 <sup>th</sup> Alarm in Batch	Text (char[16])
8832	8833	Trans Run Data Batch 2	Average Flow Rate	IEEE single precision float
8834	8835	Trans Run Data Batch 2	Load Average Meter Factor	IEEE single precision float
8836	8837	Trans Run Data Batch 2	Load Average Temperature	IEEE single precision float
8838	8839	Trans Run Data Batch 2	Load Average Density	IEEE single precision float
8840	8841	Trans Run Data Batch 2	Load Average Pressure	IEEE single precision float
8842	8843	Trans Run Data Batch 2	Average CTL	IEEE single precision float
8844	8845	Trans Run Data Batch 2	Average CPL	IEEE single precision float
8846	8847	Trans Run Data Batch 2	Contaminant Percentage	IEEE single precision float
8848	8849	Trans Run Data Batch 2	Last Density Sample	IEEE single precision float
8896	8899	Trans Run Data Batch 2	Total Pulses	IEEE double precision float
8900	8903	Trans Run Data Batch 2	Indicated Volume (IV)	IEEE double precision float
8904	8907	Trans Run Data Batch 2	Gross Volume (GV)	IEEE double precision float
8908	8911	Trans Run Data Batch 2	Gross Volume @ Std Temp (GST)	IEEE double precision float
8912	8915	Trans Run Data Batch 2	Gross @ Std Temp and Pressure (GSV)	IEEE double precision float
8916	8919	Trans Run Data Batch 2	Mass Total	IEEE double precision float
8920	8923	Trans Run Data Batch 2	Additive 1 Volume	IEEE double precision float
8924	8927	Trans Run Data Batch 2	Additive 2 Volume	IEEE double precision float
8928	8931	Trans Run Data Batch 2	Additive 3 Volume	IEEE double precision float
8932	8935	Trans Run Data Batch 2	Additive 4 Volume	IEEE double precision float
8936	8939	Trans Run Data Batch 2	Additive 5 Volume	IEEE double precision float
8940	8943	Trans Run Data Batch 2	Additive 6 Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
8944	8947	Trans Run Data Batch 2	Additive 7 Volume	IEEE double precision float
8948	8951	Trans Run Data Batch 2	Additive 8 Volume	IEEE double precision float
8952	8955	Trans Run Data Batch 2	Additive 9 Volume	IEEE double precision float
8956	8959	Trans Run Data Batch 2	Additive 10 Volume	IEEE double precision float
8960	8963	Trans Run Data Batch 2	Additive 11 Volume	IEEE double precision float
8964	8967	Trans Run Data Batch 2	Additive 12 Volume	IEEE double precision float
8968	8971	Trans Run Data Batch 2	Additive 13 Volume	IEEE double precision float
8972	8975	Trans Run Data Batch 2	Additive 14 Volume	IEEE double precision float
8976	8979	Trans Run Data Batch 2	Additive 15 Volume	IEEE double precision float
8980	8983	Trans Run Data Batch 2	Additive 16 Volume	IEEE double precision float
8984	8987	Trans Run Data Batch 2	Additive 17 Volume	IEEE double precision float
8988	8991	Trans Run Data Batch 2	Additive 18 Volume	IEEE double precision float
8992	8995	Trans Run Data Batch 2	Additive 19 Volume	IEEE double precision float
8996	8999	Trans Run Data Batch 2	Additive 20 Volume	IEEE double precision float
9000	9003	Trans Run Data Batch 2	Additive 21 Volume	IEEE double precision float
9004	9007	Trans Run Data Batch 2	Additive 22 Volume	IEEE double precision float
9008	9011	Trans Run Data Batch 2	Additive 23 Volume	IEEE double precision float
9012	9015	Trans Run Data Batch 2	Additive 24 Volume	IEEE double precision float
9016	9019	Trans Run Data Batch 2	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
9020	9023	Trans Run Data Batch 2	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
9024	9027	Trans Run Data Batch 2	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
9028	9031	Trans Run Data Batch 2	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
9032	9035	Trans Run Data Batch 2	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
9036	9039	Trans Run Data Batch 2	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
9040	9043	Trans Run Data Batch 2	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
9044	9047	Trans Run Data Batch 2	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
9048	9051	Trans Run Data Batch 2	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
9052	9055	Trans Run Data Batch 2	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
Modbus	Ending	Data Set	Data Point	Data Type

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Address	Address			
9056	9059	Trans Run Data Batch 2	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
9060	9063	Trans Run Data Batch 2	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
9064	9067	Trans Run Data Batch 2	Flow Controlled Additive #1 Mass	IEEE double precision float
9068	9071	Trans Run Data Batch 2	Flow Controlled Additive #2 Mass	IEEE double precision float
9072	9075	Trans Run Data Batch 2	Flow Controlled Additive #3 Mass	IEEE double precision float
9076	9079	Trans Run Data Batch 2	Flow Controlled Additive #4 Mass	IEEE double precision float
9080	9083	Trans Run Data Batch 2	Straight Arm with VRS Recovered Mass	IEEE double precision float
9084	9087	Trans Run Data Batch	Straight Arm with VRS Net Mass	IEEE double precision float
9216		Trans Run Data Batch 2	Product Number	unsigned character
9217		Trans Run Data Batch 2	Recipe Number ("1" based; 1 = recipe 1)	unsigned character
9218		Trans Run Data Batch 2	HM Class Product	unsigned character
9219		Trans Run Data Batch 2	Batch Number	unsigned character
9220		Trans Run Data Batch 2	Prove Trip Accepted	Unsigned character
9221		Trans Run Data Batch 2	Batch Load Arm	Unsigned character
9280	9281	Trans Run Data Batch 2	Additive Mask	unsigned long integer
9600	9601	Trans Run Data Batch 2	P1 Average Flow Rate	IEEE single precision float
9602	9603	Trans Run Data Batch 2	P2 Average Flow Rate	IEEE single precision float
9604	9605	Trans Run Data Batch 2	P3 Average Flow Rate	IEEE single precision float
9606	9607	Trans Run Data Batch 2	P4 Average Flow Rate	IEEE single precision float
9608	9609	Trans Run Data Batch 2	P5 Average Flow Rate	IEEE single precision float
9610	9611	Trans Run Data Batch 2	P6 Average Flow Rate	IEEE single precision float
9612	9613	Trans Run Data Batch 2	P1 Load Average Meter Factor	IEEE single precision float
9614	9615	Trans Run Data Batch 2	P2 Load Average Meter Factor	IEEE single precision float
9616	9617	Trans Run Data Batch 2	P3 Load Average Meter Factor	IEEE single precision float
9618	9619	Trans Run Data Batch 2	P4 Load Average Meter Factor	IEEE single precision float
9620	9621	Trans Run Data Batch 2	P5 Load Average Meter Factor	IEEE single precision float

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<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>
9622	9623	Trans Run Data Batch 2	P6 Load Average Meter Factor	IEEE single precision float
9624	9625	Trans Run Data Batch 2	P1 Load Average Temperature	IEEE single precision float
9626	9627	Trans Run Data Batch 2	P2 Load Average Temperature	IEEE single precision float
9628	9629	Trans Run Data Batch 2	P3 Load Average Temperature	IEEE single precision float
9630	9631	Trans Run Data Batch 2	P4 Load Average Temperature	IEEE single precision float
9632	9633	Trans Run Data Batch 2	P5 Load Average Temperature	IEEE single precision float
9634	9635	Trans Run Data Batch 2	P6 Load Average Temperature	IEEE single precision float
9636	9637	Trans Run Data Batch 2	P1 Load Average Density	IEEE single precision float
9638	9639	Trans Run Data Batch 2	P2 Load Average Density	IEEE single precision float
9640	9641	Trans Run Data Batch 2	P3 Load Average Density	IEEE single precision float
9642	9643	Trans Run Data Batch 2	P4 Load Average Density	IEEE single precision float
9644	9645	Trans Run Data Batch 2	P5 Load Average Density	IEEE single precision float
9646	9647	Trans Run Data Batch 2	P6 Load Average Density	IEEE single precision float
9648	9649	Trans Run Data Batch 2	P1 Load Average Pressure	IEEE single precision float
9650	9651	Trans Run Data Batch 2	P2 Load Average Pressure	IEEE single precision float
9652	9653	Trans Run Data Batch 2	P3 Load Average Pressure	IEEE single precision float
9654	9655	Trans Run Data Batch 2	P4 Load Average Pressure	IEEE single precision float
9656	9657	Trans Run Data Batch 2	P5 Load Average Pressure	IEEE single precision float
9658	9659	Trans Run Data Batch 2	P6 Load Average Pressure	IEEE single precision float
9660	9661	Trans Run Data Batch 2	P1 Average CTL	IEEE single precision float
9662	9663	Trans Run Data Batch 2	P2 Average CTL	IEEE single precision float
9664	9665	Trans Run Data Batch 2	P3 Average CTL	IEEE single precision float
9666	9667	Trans Run Data Batch 2	P4 Average CTL	IEEE single precision float
9668	9669	Trans Run Data Batch 2	P5 Average CTL	IEEE single precision float
9670	9671	Trans Run Data Batch 2	P6 Average CTL	IEEE single precision float
9672	9673	Trans Run Data Batch 2	P1 Average CPL	IEEE single precision float
9674	9675	Trans Run Data Batch 2	P2 Average CPL	IEEE single precision float
9676	9677	Trans Run Data Batch 2	P3 Average CPL	IEEE single precision float
9678	9679	Trans Run Data Batch 2	P4 Average CPL	IEEE single precision float
9680	9681	Trans Run Data Batch 2	P5 Average CPL	IEEE single precision float
<b>Modbus</b>	<b>Ending</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>

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Address	Address			
9682	9683	Trans Run Data Batch 2	P6 Average CPL	IEEE single precision float
9684	9685	Trans Run Data Batch 2	P1 CCF	IEEE single precision float
9686	9687	Trans Run Data Batch 2	P2 CCF	IEEE single precision float
9688	9689	Trans Run Data Batch 2	P3 CCF	IEEE single precision float
9690	9691	Trans Run Data Batch 2	P4 CCF	IEEE single precision float
9692	9693	Trans Run Data Batch 2	P5 CCF	IEEE single precision float
9694	9695	Trans Run Data Batch 2	P6 CCF	IEEE single precision float
9696	9697	Trans Run Data Batch 2	P1 Average Reference Density	IEEE single precision float
9698	9699	Trans Run Data Batch 2	P2 Average Reference Density	IEEE single precision float
9700	9701	Trans Run Data Batch 2	P3 Average Reference Density	IEEE single precision float
9702	9703	Trans Run Data Batch 2	P4 Average Reference Density	IEEE single precision float
9704	9705	Trans Run Data Batch 2	P5 Average Reference Density	IEEE single precision float
9706	9707	Trans Run Data Batch 2	P6 Average Reference Density	IEEE single precision float
9708	9709	Trans Run Data Batch 2	P1 Average Relative Density	IEEE single precision float
9710	9711	Trans Run Data Batch 2	P2 Average Relative Density	IEEE single precision float
9712	9713	Trans Run Data Batch 2	P3 Average Relative Density	IEEE single precision float
9714	9715	Trans Run Data Batch 2	P4 Average Relative Density	IEEE single precision float
9716	9717	Trans Run Data Batch 2	P5 Average Relative Density	IEEE single precision float
9718	9719	Trans Run Data Batch 2	P6 Average Relative Density	IEEE single precision float
9720	9721	Trans Run Data Batch 2	P1 Average API @ Ref Temperature	IEEE single precision float
9722	9723	Trans Run Data Batch 2	P2 Average API @ Ref Temperature	IEEE single precision float
9724	9725	Trans Run Data Batch 2	P3 Average API @ Ref Temperature	IEEE single precision float
9726	9727	Trans Run Data Batch 2	P4 Average API @ Ref Temperature	IEEE single precision float
9728	9729	Trans Run Data Batch 2	P5 Average API @ Ref Temperature	IEEE single precision float
Modbus Address	Ending Address	Data Set	Data Point	Data Type

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9730	9731	Trans Run Data Batch 2	P6 Average API @ Ref Temperature	IEEE single precision float
9732	9733	Trans Run Data Batch 2	P1 Average Vapor Pressure	IEEE single precision float
9734	9735	Trans Run Data Batch 2	P2 Average Vapor Pressure	IEEE single precision float
9736	9737	Trans Run Data Batch 2	P3 Average Vapor Pressure	IEEE single precision float
9738	9739	Trans Run Data Batch 2	P4 Average Vapor Pressure	IEEE single precision float
9740	9741	Trans Run Data Batch 2	P5 Average Vapor Pressure	IEEE single precision float
9742	9743	Trans Run Data Batch 2	P6 Average Vapor Pressure	IEEE single precision float
9744	9745	Trans Run Data Batch 1	P1 Average CTPL	IEEE single precision float
9746	9747	Trans Run Data Batch 1	P2 Average CTPL	IEEE single precision float
9748	9749	Trans Run Data Batch 1	P3 Average CTPL	IEEE single precision float
9750	9751	Trans Run Data Batch 1	P4 Average CTPL	IEEE single precision float
9752	9753	Trans Run Data Batch 1	P5 Average CTPL	IEEE single precision float
9754	9755	Trans Run Data Batch 1	P6 Average CTPL	IEEE single precision float
9920	9923	Trans Run Data Batch 2	Batch P1 Total Pulses	IEEE double precision float
9924	9927	Trans Run Data Batch 2	Batch P2 Total Pulses	IEEE double precision float
9928	9931	Trans Run Data Batch 2	Batch P3 Total Pulses	IEEE double precision float
9932	9935	Trans Run Data Batch 2	Batch P4 Total Pulses	IEEE double precision float
9936	9939	Trans Run Data Batch 2	Batch P5 Total Pulses	IEEE double precision float
9940	9943	Trans Run Data Batch 2	Batch P6 Total Pulses	IEEE double precision float
9944	9947	Trans Run Data Batch 2	Batch P1 Indicated Volume (IV)	IEEE double precision float
9948	9951	Trans Run Data Batch 2	Batch P2 Indicated Volume (IV)	IEEE double precision float
9952	9955	Trans Run Data Batch 2	Batch P3 Indicated Volume (IV)	IEEE double precision float
9956	9959	Trans Run Data Batch 2	Batch P4 Indicated Volume (IV)	IEEE double precision float
9960	9963	Trans Run Data Batch 2	Batch P5 Indicated Volume (IV)	IEEE double precision float
9964	9967	Trans Run Data Batch 2	Batch P6 Indicated Volume (IV)	IEEE double precision float
9968	9971	Trans Run Data Batch 2	Batch P1 Gross Volume (GV)	IEEE double precision float

Modbus Address	Ending Address	Data Set	Data Point	Data Type
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9972	9975	Trans Run Data Batch 2	Batch P2 Gross Volume (GV)	IEEE double precision float
9976	9979	Trans Run Data Batch 2	Batch P3 Gross Volume (GV)	IEEE double precision float
9980	9983	Trans Run Data Batch 2	Batch P4 Gross Volume (GV)	IEEE double precision float
9984	9987	Trans Run Data Batch 2	Batch P5 Gross Volume (GV)	IEEE double precision float
9988	9991	Trans Run Data Batch 2	Batch P6 Gross Volume (GV)	IEEE double precision float
9992	9995	Trans Run Data Batch 2	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
9996	9999	Trans Run Data Batch 2	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
10000	10003	Trans Run Data Batch 2	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
10004	10007	Trans Run Data Batch 2	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
10008	10011	Trans Run Data Batch 2	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
10012	10015	Trans Run Data Batch 2	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
10016	10019	Trans Run Data Batch 2	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10020	10023	Trans Run Data Batch 2	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10024	10027	Trans Run Data Batch 2	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10028	10031	Trans Run Data Batch 2	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10032	10035	Trans Run Data Batch 2	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10036	10039	Trans Run Data Batch 2	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
10040	10043	Trans Run Data Batch 2	Batch P1 Mass Total	IEEE double precision float
10044	10047	Trans Run Data Batch 2	Batch P2 Mass Total	IEEE double precision float
10048	10051	Trans Run Data Batch 2	Batch P3 Mass Total	IEEE double precision float
10052	10055	Trans Run Data Batch 2	Batch P4 Mass Total	IEEE double precision float
10056	10059	Trans Run Data Batch 2	Batch P5 Mass Total	IEEE double precision float
10060	10063	Trans Run Data Batch 2	Batch P6 Mass Total	IEEE double precision float
10240	10247	Trans Run Data Batch 3	1st Alarm in Batch	Text (char[16])
10248	10255	Trans Run Data Batch 3	2nd Alarm in Batch	Text (char[16])
<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>

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10256	10263	Trans Run Data Batch 3	3rd Alarm in Batch	Text (char[16])
10264	10271	Trans Run Data Batch 3	4th Alarm in Batch	Text (char[16])
10272	10279	Trans Run Data Batch 3	5th Alarm in Batch	Text (char[16])
10280	10287	Trans Run Data Batch 3	6th Alarm in Batch	Text (char[16])
10288	10295	Trans Run Data Batch 3	7th Alarm in Batch	Text (char[16])
10296	10303	Trans Run Data Batch 3	8th Alarm in Batch	Text (char[16])
10304	10311	Trans Run Data Batch 3	9th Alarm in Batch	Text (char[16])
10312	10319	Trans Run Data Batch 3	10th Alarm in Batch	Text (char[16])
10368	10369	Trans Run Data Batch 3	Average Flow Rate	IEEE single precision float
10370	10371	Trans Run Data Batch 3	Load Average Meter Factor	IEEE single precision float
10372	10373	Trans Run Data Batch 3	Load Average Temperature	IEEE single precision float
10374	10375	Trans Run Data Batch 3	Load Average Density	IEEE single precision float
10376	10377	Trans Run Data Batch 3	Load Average Pressure	IEEE single precision float
10378	10379	Trans Run Data Batch 3	Average CTL	IEEE single precision float
10380	10381	Trans Run Data Batch 3	Average CPL	IEEE single precision float
10382	10383	Trans Run Data Batch 3	Contaminant Percentage	IEEE single precision float
10384	10385	Trans Run Data Batch 3	Last Density Sample	IEEE single precision float
10432	10435	Trans Run Data Batch 3	Total Pulses	IEEE double precision float
10436	10439	Trans Run Data Batch 3	Indicated Volume (IV)	IEEE double precision float
10440	10443	Trans Run Data Batch 3	Gross Volume (GV)	IEEE double precision float
10444	10447	Trans Run Data Batch 3	Gross Volume @ Std Temp (GST)	IEEE double precision float
10448	10451	Trans Run Data Batch 3	Gross @ Std Temp and Pressure (GSV)	IEEE double precision float
10452	10455	Trans Run Data Batch 3	Mass Total	IEEE double precision float
10456	10459	Trans Run Data Batch 3	Additive 1 Volume	IEEE double precision float
10460	10463	Trans Run Data Batch 3	Additive 2 Volume	IEEE double precision float
10464	10467	Trans Run Data Batch 3	Additive 3 Volume	IEEE double precision float
10468	10471	Trans Run Data Batch 3	Additive 4 Volume	IEEE double precision float
10472	10475	Trans Run Data Batch 3	Additive 5 Volume	IEEE double precision float
10476	10479	Trans Run Data Batch 3	Additive 6 Volume	IEEE double precision float
10480	10483	Trans Run Data Batch 3	Additive 7 Volume	IEEE double precision float
10484	10487	Trans Run Data Batch 3	Additive 8 Volume	IEEE double precision float
10488	10491	Trans Run Data Batch 3	Additive 9 Volume	IEEE double precision float
10492	10495	Trans Run Data Batch 3	Additive 10 Volume	IEEE double precision float
10496	10499	Trans Run Data Batch 3	Additive 11 Volume	IEEE double precision float
<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>



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10500	10503	Trans Run Data Batch 3	Additive 12 Volume	IEEE double precision float
10504	10507	Trans Run Data Batch 3	Additive 13 Volume	IEEE double precision float
10508	10511	Trans Run Data Batch 3	Additive 14 Volume	IEEE double precision float
10512	10515	Trans Run Data Batch 3	Additive 15 Volume	IEEE double precision float
10516	10519	Trans Run Data Batch 3	Additive 16 Volume	IEEE double precision float
10520	10523	Trans Run Data Batch 3	Additive 17 Volume	IEEE double precision float
10524	10527	Trans Run Data Batch 3	Additive 18 Volume	IEEE double precision float
10528	10531	Trans Run Data Batch 3	Additive 19 Volume	IEEE double precision float
10532	10535	Trans Run Data Batch 3	Additive 20 Volume	IEEE double precision float
10536	10539	Trans Run Data Batch 3	Additive 21 Volume	IEEE double precision float
10540	10543	Trans Run Data Batch 3	Additive 22 Volume	IEEE double precision float
10544	10547	Trans Run Data Batch 3	Additive 23 Volume	IEEE double precision float
10548	10551	Trans Run Data Batch 3	Additive 24 Volume	IEEE double precision float
10552	10555	Trans Run Data Batch 3	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
10556	10559	Trans Run Data Batch 3	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
10560	10563	Trans Run Data Batch 3	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
10564	10567	Trans Run Data Batch 3	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
10568	10571	Trans Run Data Batch 3	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
10572	10575	Trans Run Data Batch 3	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
10576	10579	Trans Run Data Batch 3	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
10580	10583	Trans Run Data Batch 3	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
10584	10587	Trans Run Data Batch 3	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
10588	10591	Trans Run Data Batch 3	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
10592	10595	Trans Run Data Batch 3	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
10596	10599	Trans Run Data Batch 3	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
10600	10603	Trans Run Data Batch 3	Flow Controlled Additive #1 Mass	IEEE double precision float
10604	10607	Trans Run Data Batch 3	Flow Controlled Additive #2 Mass	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
10608	10611	Trans Run Data Batch 3	Flow Controlled Additive #3 Mass	IEEE double precision float
10612	10615	Trans Run Data Batch 3	Flow Controlled Additive #4 Mass	IEEE double precision float
10616	10619	Trans Run Data Batch 3	Straight Arm with VRS Recovered Mass	IEEE double precision float
10620	10623	Trans Run Data Batch 3	Straight Arm with VRS Net Mass	IEEE double precision float
10752		Trans Run Data Batch 3	Product Number	unsigned character
10753		Trans Run Data Batch 3	Recipe Number ("1" based; 1 = recipe 1)	unsigned character
10754		Trans Run Data Batch 3	HM Class Product	unsigned character
10755		Trans Run Data Batch 3	Batch Number	unsigned character
10756		Trans Run Data Batch 3	Prove Trip Accepted	Unsigned character
10757		Trans Run Data Batch 3	Batch Load Arm	Unsigned character
10816	10817	Trans Run Data Batch 3	Additive Mask	unsigned long integer
11136	11137	Trans Run Data Batch 3	P1 Average Flow Rate	IEEE single precision float
11138	11139	Trans Run Data Batch 3	P2 Average Flow Rate	IEEE single precision float
11140	11141	Trans Run Data Batch 3	P3 Average Flow Rate	IEEE single precision float
11142	11143	Trans Run Data Batch 3	P4 Average Flow Rate	IEEE single precision float
11144	11145	Trans Run Data Batch 3	P5 Average Flow Rate	IEEE single precision float
11146	11147	Trans Run Data Batch 3	P6 Average Flow Rate	IEEE single precision float
11148	11149	Trans Run Data Batch 3	P1 Load Average Meter Factor	IEEE single precision float
11150	11151	Trans Run Data Batch 3	P2 Load Average Meter Factor	IEEE single precision float
11152	11153	Trans Run Data Batch 3	P3 Load Average Meter Factor	IEEE single precision float
11154	11155	Trans Run Data Batch 3	P4 Load Average Meter Factor	IEEE single precision float
11156	11157	Trans Run Data Batch 3	P5 Load Average Meter Factor	IEEE single precision float
11158	11159	Trans Run Data Batch 3	P6 Load Average Meter Factor	IEEE single precision float
11160	11161	Trans Run Data Batch 3	P1 Load Average Temperature	IEEE single precision float
11162	11163	Trans Run Data Batch 3	P2 Load Average Temperature	IEEE single precision float
11164	11165	Trans Run Data Batch 3	P3 Load Average Temperature	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
11166	11167	Trans Run Data Batch 3	P4 Load Average Temperature	IEEE single precision float
11168	11169	Trans Run Data Batch 3	P5 Load Average Temperature	IEEE single precision float
11170	11171	Trans Run Data Batch 3	P6 Load Average Temperature	IEEE single precision float
11172	11173	Trans Run Data Batch 3	P1 Load Average Density	IEEE single precision float
11174	11175	Trans Run Data Batch 3	P2 Load Average Density	IEEE single precision float
11176	11177	Trans Run Data Batch 3	P3 Load Average Density	IEEE single precision float
11178	11179	Trans Run Data Batch 3	P4 Load Average Density	IEEE single precision float
11180	11181	Trans Run Data Batch 3	P5 Load Average Density	IEEE single precision float
11182	11183	Trans Run Data Batch 3	P6 Load Average Density	IEEE single precision float
11184	11185	Trans Run Data Batch 3	P1 Load Average Pressure	IEEE single precision float
11186	11187	Trans Run Data Batch 3	P2 Load Average Pressure	IEEE single precision float
11188	11189	Trans Run Data Batch 3	P3 Load Average Pressure	IEEE single precision float
11190	11191	Trans Run Data Batch 3	P4 Load Average Pressure	IEEE single precision float
11192	11193	Trans Run Data Batch 3	P5 Load Average Pressure	IEEE single precision float
11194	11195	Trans Run Data Batch 3	P6 Load Average Pressure	IEEE single precision float
11196	11197	Trans Run Data Batch 3	P1 Average CTL	IEEE single precision float
11198	11199	Trans Run Data Batch 3	P2 Average CTL	IEEE single precision float
11200	11201	Trans Run Data Batch 3	P3 Average CTL	IEEE single precision float
11202	11203	Trans Run Data Batch 3	P4 Average CTL	IEEE single precision float
11204	11205	Trans Run Data Batch 3	P5 Average CTL	IEEE single precision float
11206	11207	Trans Run Data Batch 3	P6 Average CTL	IEEE single precision float
11208	11209	Trans Run Data Batch 3	P1 Average CPL	IEEE single precision float
11210	11211	Trans Run Data Batch 3	P2 Average CPL	IEEE single precision float
11212	11213	Trans Run Data Batch 3	P3 Average CPL	IEEE single precision float
11214	11215	Trans Run Data Batch 3	P4 Average CPL	IEEE single precision float
11216	11217	Trans Run Data Batch 3	P5 Average CPL	IEEE single precision float
11218	11219	Trans Run Data Batch 3	P6 Average CPL	IEEE single precision float
11220	11221	Trans Run Data Batch 3	P1 CCF	IEEE single precision float
11222	11223	Trans Run Data Batch 3	P2 CCF	IEEE single precision float
11224	11225	Trans Run Data Batch 3	P3 CCF	IEEE single precision float
11226	11227	Trans Run Data Batch 3	P4 CCF	IEEE single precision float
11228	11229	Trans Run Data Batch 3	P5 CCF	IEEE single precision float
11230	11231	Trans Run Data Batch 3	P6 CCF	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
11232	11233	Trans Run Data Batch 3	P1 Average Reference Density	IEEE single precision float
11234	11235	Trans Run Data Batch 3	P2 Average Reference Density	IEEE single precision float
11236	11237	Trans Run Data Batch 3	P3 Average Reference Density	IEEE single precision float
11238	11239	Trans Run Data Batch 3	P4 Average Reference Density	IEEE single precision float
11240	11241	Trans Run Data Batch 3	P5 Average Reference Density	IEEE single precision float
11242	11243	Trans Run Data Batch 3	P6 Average Reference Density	IEEE single precision float
11244	11245	Trans Run Data Batch 3	P1 Average Relative Density	IEEE single precision float
11246	11247	Trans Run Data Batch 3	P2 Average Relative Density	IEEE single precision float
11248	11249	Trans Run Data Batch 3	P3 Average Relative Density	IEEE single precision float
11250	11251	Trans Run Data Batch 3	P4 Average Relative Density	IEEE single precision float
11252	11253	Trans Run Data Batch 3	P5 Average Relative Density	IEEE single precision float
11254	11255	Trans Run Data Batch 3	P6 Average Relative Density	IEEE single precision float
11256	11257	Trans Run Data Batch 3	P1 Average API @ Ref Temperature	IEEE single precision float
11258	11259	Trans Run Data Batch 3	P2 Average API @ Ref Temperature	IEEE single precision float
11260	11261	Trans Run Data Batch 3	P3 Average API @ Ref Temperature	IEEE single precision float
11262	11263	Trans Run Data Batch 3	P4 Average API @ Ref Temp	IEEE single precision float
11264	11265	Trans Run Data Batch 3	P5 Average API @ Ref Temp	IEEE single precision float
11266	11267	Trans Run Data Batch 3	P6 Average API @ Ref Temp	IEEE single precision float
11268	11269	Trans Run Data Batch 3	P1 Average Vapor Pressure	IEEE single precision float
11270	11271	Trans Run Data Batch 3	P2 Average Vapor Pressure	IEEE single precision float
11272	11273	Trans Run Data Batch 3	P3 Average Vapor Pressure	IEEE single precision float
11274	11275	Trans Run Data Batch 3	P4 Average Vapor Pressure	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
11276	11277	Trans Run Data Batch 3	P5 Average Vapor Pressure	IEEE single precision float
11278	11279	Trans Run Data Batch 3	P6 Average Vapor Pressure	IEEE single precision float
11280	11281	Trans Run Data Batch 3	P1 Average CTPL	IEEE single precision float
11282	11283	Trans Run Data Batch 3	P2 Average CTPL	IEEE single precision float
11284	11285	Trans Run Data Batch 3	P3 Average CTPL	IEEE single precision float
11286	11287	Trans Run Data Batch 3	P4 Average CTPL	IEEE single precision float
11289	11290	Trans Run Data Batch 3	P5 Average CTPL	IEEE single precision float
11291	11292	Trans Run Data Batch 3	P6 Average CTPL	IEEE single precision float
11456	11459	Trans Run Data Batch 3	Batch P1 Total Pulses	IEEE double precision float
11460	11463	Trans Run Data Batch 3	Batch P2 Total Pulses	IEEE double precision float
11464	11467	Trans Run Data Batch 3	Batch P3 Total Pulses	IEEE double precision float
11468	11471	Trans Run Data Batch 3	Batch P4 Total Pulses	IEEE double precision float
11472	11475	Trans Run Data Batch 3	Batch P5 Total Pulses	IEEE double precision float
11476	11479	Trans Run Data Batch 3	Batch P6 Total Pulses	IEEE double precision float
11480	11483	Trans Run Data Batch 3	Batch P1 Indicated Volume (IV)	IEEE double precision float
11484	11487	Trans Run Data Batch 3	Batch P2 Indicated Volume (IV)	IEEE double precision float
11488	11491	Trans Run Data Batch 3	Batch P3 Indicated Volume (IV)	IEEE double precision float
11492	11495	Trans Run Data Batch 3	Batch P4 Indicated Volume (IV)	IEEE double precision float
11496	11499	Trans Run Data Batch 3	Batch P5 Indicated Volume (IV)	IEEE double precision float
11500	11503	Trans Run Data Batch 3	Batch P6 Indicated Volume (IV)	IEEE double precision float
11504	11507	Trans Run Data Batch 3	Batch P1 Gross Volume (GV)	IEEE double precision float
11508	11511	Trans Run Data Batch 3	Batch P2 Gross Volume (GV)	IEEE double precision float
11512	11515	Trans Run Data Batch 3	Batch P3 Gross Volume (GV)	IEEE double precision float
11516	11519	Trans Run Data Batch 3	Batch P4 Gross Volume (GV)	IEEE double precision float
11520	11523	Trans Run Data Batch 3	Batch P5 Gross Volume (GV)	IEEE double precision float
11524	11527	Trans Run Data Batch 3	Batch P6 Gross Volume (GV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
11528	11531	Trans Run Data Batch 3	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
11532	11535	Trans Run Data Batch 3	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
11536	11539	Trans Run Data Batch 3	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
11540	11543	Trans Run Data Batch 3	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
11544	11547	Trans Run Data Batch 3	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
11548	11551	Trans Run Data Batch 3	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
11552	11555	Trans Run Data Batch 3	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11556	11559	Trans Run Data Batch 3	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11560	11563	Trans Run Data Batch 3	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11564	11567	Trans Run Data Batch 3	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11568	11571	Trans Run Data Batch 3	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11572	11575	Trans Run Data Batch 3	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
11576	11579	Trans Run Data Batch 3	Batch P1 Mass Total	IEEE double precision float
11580	11583	Trans Run Data Batch 3	Batch P2 Mass Total	IEEE double precision float
11584	11587	Trans Run Data Batch 3	Batch P3 Mass Total	IEEE double precision float
11588	11591	Trans Run Data Batch 3	Batch P4 Mass Total	IEEE double precision float
11592	11595	Trans Run Data Batch 3	Batch P5 Mass Total	IEEE double precision float
11596	11599	Trans Run Data Batch 3	Batch P6 Mass Total	IEEE double precision float
11776	11783	Trans Run Data Batch 4	1st Alarm in Batch	Text (char[16])
11784	11791	Trans Run Data Batch 4	2nd Alarm in Batch	Text (char[16])
11792	11799	Trans Run Data Batch 4	3rd Alarm in Batch	Text (char[16])
11800	11807	Trans Run Data Batch 4	4th Alarm in Batch	Text (char[16])
11808	11815	Trans Run Data Batch 4	5th Alarm in Batch	Text (char[16])
11816	11823	Trans Run Data Batch 4	6th Alarm in Batch	Text (char[16])
11824	11831	Trans Run Data Batch 4	7th Alarm in Batch	Text (char[16])
11832	11839	Trans Run Data Batch 4	8th Alarm in Batch	Text (char[16])
11840	11847	Trans Run Data Batch 4	9th Alarm in Batch	Text (char[16])
11848	11855	Trans Run Data Batch 4	10th Alarm in Batch	Text (char[16])

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
11904	11905	Trans Run Data Batch 4	Average Flow Rate	IEEE single precision float
11906	11907	Trans Run Data Batch 4	Load Average Meter Factor	IEEE single precision float
11908	11909	Trans Run Data Batch 4	Load Average Temperature	IEEE single precision float
11910	11911	Trans Run Data Batch 4	Load Average Density	IEEE single precision float
11912	11913	Trans Run Data Batch 4	Load Average Pressure	IEEE single precision float
11914	11915	Trans Run Data Batch 4	Average CTL	IEEE single precision float
11916	11917	Trans Run Data Batch 4	Average CPL	IEEE single precision float
11918	11919	Trans Run Data Batch 4	Contaminant Percentage	IEEE single precision float
11920	11921	Trans Run Data Batch 4	Last Density Sample	IEEE single precision float
11968	11971	Trans Run Data Batch 4	Total Pulses	IEEE double precision float
11972	11975	Trans Run Data Batch 4	Indicated Volume (IV)	IEEE double precision float
11976	11979	Trans Run Data Batch 4	Gross Volume (GV)	IEEE double precision float
11980	11983	Trans Run Data Batch 4	Gross Volume @ Std Temp (GST)	IEEE double precision float
11984	11987	Trans Run Data Batch 4	Gross @ Std Temp and Press (GSV)	IEEE double precision float
11988	11991	Trans Run Data Batch 4	Mass Total	IEEE double precision float
11992	11995	Trans Run Data Batch 4	Additive 1 Volume	IEEE double precision float
11996	11999	Trans Run Data Batch 4	Additive 2 Volume	IEEE double precision float
12000	12003	Trans Run Data Batch 4	Additive 3 Volume	IEEE double precision float
12004	12007	Trans Run Data Batch 4	Additive 4 Volume	IEEE double precision float
12008	12011	Trans Run Data Batch 4	Additive 5 Volume	IEEE double precision float
12012	12015	Trans Run Data Batch 4	Additive 6 Volume	IEEE double precision float
12016	12019	Trans Run Data Batch 4	Additive 7 Volume	IEEE double precision float
12020	12023	Trans Run Data Batch 4	Additive 8 Volume	IEEE double precision float
12024	12027	Trans Run Data Batch 4	Additive 9 Volume	IEEE double precision float
12028	12031	Trans Run Data Batch 4	Additive 10 Volume	IEEE double precision float
12032	12035	Trans Run Data Batch 4	Additive 11 Volume	IEEE double precision float
12036	12039	Trans Run Data Batch 4	Additive 12 Volume	IEEE double precision float
12040	12043	Trans Run Data Batch 4	Additive 13 Volume	IEEE double precision float
12044	12047	Trans Run Data Batch 4	Additive 14 Volume	IEEE double precision float
12048	12051	Trans Run Data Batch 4	Additive 15 Volume	IEEE double precision float
12052	12055	Trans Run Data Batch 4	Additive 16 Volume	IEEE double precision float
12056	12059	Trans Run Data Batch 4	Additive 17 Volume	IEEE double precision float
12060	12063	Trans Run Data Batch 4	Additive 18 Volume	IEEE double precision float
12064	12067	Trans Run Data Batch 4	Additive 19 Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
12068	12071	Trans Run Data Batch 4	Additive 20 Volume	IEEE double precision float
12072	12075	Trans Run Data Batch 4	Additive 21 Volume	IEEE double precision float
12076	12079	Trans Run Data Batch 4	Additive 22 Volume	IEEE double precision float
12080	12083	Trans Run Data Batch 4	Additive 23 Volume	IEEE double precision float
12084	12087	Trans Run Data Batch 4	Additive 24 Volume	IEEE double precision float
12088	12091	Trans Run Data Batch 4	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
12092	12095	Trans Run Data Batch 4	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
12096	12099	Trans Run Data Batch 4	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
12100	12103	Trans Run Data Batch 4	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
12104	12107	Trans Run Data Batch 4	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
12108	12111	Trans Run Data Batch 4	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
12112	12115	Trans Run Data Batch 4	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
12116	12119	Trans Run Data Batch 4	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
12120	12123	Trans Run Data Batch 4	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
12124	12127	Trans Run Data Batch 4	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
12128	12131	Trans Run Data Batch 4	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
12132	12135	Trans Run Data Batch 4	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
12136	12139	Trans Run Data Batch 4	Flow Controlled Additive #1 Mass	IEEE double precision float
12140	12143	Trans Run Data Batch 4	Flow Controlled Additive #2 Mass	IEEE double precision float
12144	12147	Trans Run Data Batch 4	Flow Controlled Additive #3 Mass	IEEE double precision float
12148	12151	Trans Run Data Batch 4	Flow Controlled Additive #4 Mass	IEEE double precision float
12152	12155	Trans Run Data Batch 4	Straight Arm with VRS Recovered Mass	IEEE double precision float
12156	12159	Trans Run Data Batch 4	Straight Arm with VRS Net Mass	IEEE double precision float
12288		Trans Run Data Batch 4	Product Number	unsigned character



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
12289		Trans Run Data Batch 4	Recipe Number ("1" based; 1 = recipe 1)	unsigned character
12290		Trans Run Data Batch 4	HM Class Product	unsigned character
12291		Trans Run Data Batch 4	Batch Number	unsigned character
12292		Trans Run Data Batch 4	Prove Trip Accepted	Unsigned character
12293		Trans Run Data Batch 4	Batch Load Arm	Unsigned character
12352	12353	Trans Run Data Batch 4	Additive Mask	unsigned long integer
12672	12673	Trans Run Data Batch 4	P1 Average Flow Rate	IEEE single precision float
12674	12675	Trans Run Data Batch 4	P2 Average Flow Rate	IEEE single precision float
12676	12677	Trans Run Data Batch 4	P3 Average Flow Rate	IEEE single precision float
12678	12679	Trans Run Data Batch 4	P4 Average Flow Rate	IEEE single precision float
12680	12681	Trans Run Data Batch 4	P5 Average Flow Rate	IEEE single precision float
12682	12683	Trans Run Data Batch 4	P6 Average Flow Rate	IEEE single precision float
12684	12685	Trans Run Data Batch 4	P1 Load Average Meter Factor	IEEE single precision float
12686	12687	Trans Run Data Batch 4	P2 Load Average Meter Factor	IEEE single precision float
12688	12689	Trans Run Data Batch 4	P3 Load Average Meter Factor	IEEE single precision float
12690	12691	Trans Run Data Batch 4	P4 Load Average Meter Factor	IEEE single precision float
12692	12693	Trans Run Data Batch 4	P5 Load Average Meter Factor	IEEE single precision float
12694	12695	Trans Run Data Batch 4	P6 Load Average Meter Factor	IEEE single precision float
12696	12697	Trans Run Data Batch 4	P1 Load Average Temperature	IEEE single precision float
12698	12699	Trans Run Data Batch 4	P2 Load Average Temperature	IEEE single precision float
12700	12701	Trans Run Data Batch 4	P3 Load Average Temperature	IEEE single precision float
12702	12703	Trans Run Data Batch 4	P4 Load Average Temperature	IEEE single precision float
12704	12705	Trans Run Data Batch 4	P5 Load Average Temperature	IEEE single precision float
12706	12707	Trans Run Data Batch 4	P6 Load Average Temperature	IEEE single precision float
12708	12709	Trans Run Data Batch 4	P1 Load Average Density	IEEE single precision float
12710	12711	Trans Run Data Batch 4	P2 Load Average Density	IEEE single precision float
12712	12713	Trans Run Data Batch 4	P3 Load Average Density	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
12714	12715	Trans Run Data Batch 4	P4 Load Average Density	IEEE single precision float
12716	12717	Trans Run Data Batch 4	P5 Load Average Density	IEEE single precision float
12718	12719	Trans Run Data Batch 4	P6 Load Average Density	IEEE single precision float
12720	12721	Trans Run Data Batch 4	P1 Load Average Pressure	IEEE single precision float
12722	12723	Trans Run Data Batch 4	P2 Load Average Pressure	IEEE single precision float
12724	12725	Trans Run Data Batch 4	P3 Load Average Pressure	IEEE single precision float
12726	12727	Trans Run Data Batch 4	P4 Load Average Pressure	IEEE single precision float
12728	12729	Trans Run Data Batch 4	P5 Load Average Pressure	IEEE single precision float
12730	12731	Trans Run Data Batch 4	P6 Load Average Pressure	IEEE single precision float
12732	12733	Trans Run Data Batch 4	P1 Average CTL	IEEE single precision float
12734	12735	Trans Run Data Batch 4	P2 Average CTL	IEEE single precision float
12736	12737	Trans Run Data Batch 4	P3 Average CTL	IEEE single precision float
12738	12739	Trans Run Data Batch 4	P4 Average CTL	IEEE single precision float
12740	12741	Trans Run Data Batch 4	P5 Average CTL	IEEE single precision float
12742	12743	Trans Run Data Batch 4	P6 Average CTL	IEEE single precision float
12744	12745	Trans Run Data Batch 4	P1 Average CPL	IEEE single precision float
12746	12747	Trans Run Data Batch 4	P2 Average CPL	IEEE single precision float
12748	12749	Trans Run Data Batch 4	P3 Average CPL	IEEE single precision float
12750	12751	Trans Run Data Batch 4	P4 Average CPL	IEEE single precision float
12752	12753	Trans Run Data Batch 4	P5 Average CPL	IEEE single precision float
12754	12755	Trans Run Data Batch 4	P6 Average CPL	IEEE single precision float
12756	12757	Trans Run Data Batch 4	P1 CCF	IEEE single precision float
12758	12759	Trans Run Data Batch 4	P2 CCF	IEEE single precision float
12760	12761	Trans Run Data Batch 4	P3 CCF	IEEE single precision float
12762	12763	Trans Run Data Batch 4	P4 CCF	IEEE single precision float
12764	12765	Trans Run Data Batch 4	P5 CCF	IEEE single precision float
12766	12767	Trans Run Data Batch 4	P6 CCF	IEEE single precision float
12768	12769	Trans Run Data Batch 4	P1 Average Reference Density	IEEE single precision float
12770	12771	Trans Run Data Batch 4	P2 Average Reference Density	IEEE single precision float
12772	12773	Trans Run Data Batch 4	P3 Average Reference Density	IEEE single precision float
12774	12775	Trans Run Data Batch 4	P4 Average Reference Density	IEEE single precision float
12776	12777	Trans Run Data Batch 4	P5 Average Reference Density	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
12778	12779	Trans Run Data Batch 4	P6 Average Reference Density	IEEE single precision float
12780	12781	Trans Run Data Batch 4	P1 Average Relative Density	IEEE single precision float
12782	12783	Trans Run Data Batch 4	P2 Average Relative Density	IEEE single precision float
12784	12785	Trans Run Data Batch 4	P3 Average Relative Density	IEEE single precision float
12786	12787	Trans Run Data Batch 4	P4 Average Relative Density	IEEE single precision float
12788	12789	Trans Run Data Batch 4	P5 Average Relative Density	IEEE single precision float
12790	12791	Trans Run Data Batch 4	P6 Average Relative Density	IEEE single precision float
12792	12793	Trans Run Data Batch 4	P1 Average API @ Ref Temperature	IEEE single precision float
12794	12795	Trans Run Data Batch 4	P2 Average API @ Ref Temperature	IEEE single precision float
12796	12797	Trans Run Data Batch 4	P3 Average API @ Ref Temperature	IEEE single precision float
12798	12799	Trans Run Data Batch 4	P4 Average API @ Ref Temperature	IEEE single precision float
12800	12801	Trans Run Data Batch 4	P5 Average API @ Ref Temperature	IEEE single precision float
12802	12803	Trans Run Data Batch 4	P6 Average API @ Ref Temperature	IEEE single precision float
12804	12805	Trans Run Data Batch 4	P1 Average Vapor Pressure	IEEE single precision float
12806	12807	Trans Run Data Batch 4	P2 Average Vapor Pressure	IEEE single precision float
12808	12809	Trans Run Data Batch 4	P3 Average Vapor Pressure	IEEE single precision float
12810	12811	Trans Run Data Batch 4	P4 Average Vapor Pressure	IEEE single precision float
12812	12813	Trans Run Data Batch 4	P5 Average Vapor Pressure	IEEE single precision float
12814	12815	Trans Run Data Batch 4	P6 Average Vapor Pressure	IEEE single precision float
12816	12817	Trans Run Data Batch 4	P1 Average CTPL	IEEE single precision float
12818	12819	Trans Run Data Batch 4	P2 Average CTPL	IEEE single precision float
12820	12821	Trans Run Data Batch 4	P3 Average CTPL	IEEE single precision float
12822	12823	Trans Run Data Batch 4	P4 Average CTPL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
12824	12825	Trans Run Data Batch 4	P5 Average CTPL	IEEE single precision float
12826	12827	Trans Run Data Batch 4	P6 Average CTPL	IEEE single precision float
12992	12995	Trans Run Data Batch 4	Batch P1 Total Pulses	IEEE double precision float
12996	12999	Trans Run Data Batch 4	Batch P2 Total Pulses	IEEE double precision float
13000	13003	Trans Run Data Batch 4	Batch P3 Total Pulses	IEEE double precision float
13004	13007	Trans Run Data Batch 4	Batch P4 Total Pulses	IEEE double precision float
13008	13011	Trans Run Data Batch 4	Batch P5 Total Pulses	IEEE double precision float
13012	13015	Trans Run Data Batch 4	Batch P6 Total Pulses	IEEE double precision float
13016	13019	Trans Run Data Batch 4	Batch P1 Indicated Volume (IV)	IEEE double precision float
13020	13023	Trans Run Data Batch 4	Batch P2 Indicated Volume (IV)	IEEE double precision float
13024	13027	Trans Run Data Batch 4	Batch P3 Indicated Volume (IV)	IEEE double precision float
13028	13031	Trans Run Data Batch 4	Batch P4 Indicated Volume (IV)	IEEE double precision float
13032	13035	Trans Run Data Batch 4	Batch P5 Indicated Volume (IV)	IEEE double precision float
13036	13039	Trans Run Data Batch 4	Batch P6 Indicated Volume (IV)	IEEE double precision float
13040	13043	Trans Run Data Batch 4	Batch P1 Gross Volume (GV)	IEEE double precision float
13044	13047	Trans Run Data Batch 4	Batch P2 Gross Volume (GV)	IEEE double precision float
13048	13051	Trans Run Data Batch 4	Batch P3 Gross Volume (GV)	IEEE double precision float
13052	13055	Trans Run Data Batch 4	Batch P4 Gross Volume (GV)	IEEE double precision float
13056	13059	Trans Run Data Batch 4	Batch P5 Gross Volume (GV)	IEEE double precision float
13060	13063	Trans Run Data Batch 4	Batch P6 Gross Volume (GV)	IEEE double precision float
13064	13067	Trans Run Data Batch 4	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
13068	13071	Trans Run Data Batch 4	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
13072	13075	Trans Run Data Batch 4	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
13076	13079	Trans Run Data Batch 4	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
13080	13083	Trans Run Data Batch 4	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
13084	13087	Trans Run Data Batch 4	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
13088	13091	Trans Run Data Batch 4	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13092	13095	Trans Run Data Batch 4	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13096	13099	Trans Run Data Batch 4	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13100	13103	Trans Run Data Batch 4	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13104	13107	Trans Run Data Batch 4	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13108	13111	Trans Run Data Batch 4	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
13112	13115	Trans Run Data Batch 4	Batch P1 Mass Total	IEEE double precision float
13116	13119	Trans Run Data Batch 4	Batch P2 Mass Total	IEEE double precision float
13120	13123	Trans Run Data Batch 4	Batch P3 Mass Total	IEEE double precision float
13124	13127	Trans Run Data Batch 4	Batch P4 Mass Total	IEEE double precision float
13128	13131	Trans Run Data Batch 4	Batch P5 Mass Total	IEEE double precision float
13132	13135	Trans Run Data Batch 4	Batch P6 Mass Total	IEEE double precision float
13312	13319	Trans Run Data Batch 5	1st Alarm in Batch	Text (char[16])
13320	13327	Trans Run Data Batch 5	2nd Alarm in Batch	Text (char[16])
13328	13335	Trans Run Data Batch 5	3rd Alarm in Batch	Text (char[16])
13336	13343	Trans Run Data Batch 5	4th Alarm in Batch	Text (char[16])
13344	13351	Trans Run Data Batch 5	5th Alarm in Batch	Text (char[16])
13352	13359	Trans Run Data Batch 5	6th Alarm in Batch	Text (char[16])
13360	13367	Trans Run Data Batch 5	7th Alarm in Batch	Text (char[16])
13368	13375	Trans Run Data Batch 5	8th Alarm in Batch	Text (char[16])
13376	13383	Trans Run Data Batch 5	9th Alarm in Batch	Text (char[16])
13384	13391	Trans Run Data Batch 5	10th Alarm in Batch	Text (char[16])
13440	13441	Trans Run Data Batch 5	Average Flow Rate	IEEE single precision float
13442	13443	Trans Run Data Batch 5	Load Average Meter Factor	IEEE single precision float
13444	13445	Trans Run Data Batch 5	Load Average Temperature	IEEE single precision float
13446	13447	Trans Run Data Batch 5	Load Average Density	IEEE single precision float
13448	13449	Trans Run Data Batch 5	Load Average Pressure	IEEE single precision float
13450	13451	Trans Run Data Batch 5	Average CTL	IEEE single precision float
13452	13453	Trans Run Data Batch 5	Average CPL	IEEE single precision float
13454	13455	Trans Run Data Batch 5	Contaminant Percentage	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
13456	13457	Trans Run Data Batch 5	Last Density Sample	IEEE single precision float
13504	13507	Trans Run Data Batch 5	Total Pulses	IEEE double precision float
13508	13511	Trans Run Data Batch 5	Indicated Volume (IV)	IEEE double precision float
13512	13515	Trans Run Data Batch 5	Gross Volume (GV)	IEEE double precision float
13516	13519	Trans Run Data Batch 5	Gross Volume @ Std Temp (GST)	IEEE double precision float
13520	13523	Trans Run Data Batch 5	Gross @ Std Temp & Press (GSV)	IEEE double precision float
13524	13527	Trans Run Data Batch 5	Mass Total	IEEE double precision float
13528	13531	Trans Run Data Batch 5	Additive 1 Volume	IEEE double precision float
13532	13535	Trans Run Data Batch 5	Additive 2 Volume	IEEE double precision float
13536	13539	Trans Run Data Batch 5	Additive 3 Volume	IEEE double precision float
13540	13543	Trans Run Data Batch 5	Additive 4 Volume	IEEE double precision float
13544	13547	Trans Run Data Batch 5	Additive 5 Volume	IEEE double precision float
13548	13551	Trans Run Data Batch 5	Additive 6 Volume	IEEE double precision float
13552	13555	Trans Run Data Batch 5	Additive 7 Volume	IEEE double precision float
13556	13559	Trans Run Data Batch 5	Additive 8 Volume	IEEE double precision float
13560	13563	Trans Run Data Batch 5	Additive 9 Volume	IEEE double precision float
13564	13567	Trans Run Data Batch 5	Additive 10 Volume	IEEE double precision float
13568	13571	Trans Run Data Batch 5	Additive 11 Volume	IEEE double precision float
13572	13575	Trans Run Data Batch 5	Additive 12 Volume	IEEE double precision float
13576	13579	Trans Run Data Batch 5	Additive 13 Volume	IEEE double precision float
13580	13583	Trans Run Data Batch 5	Additive 14 Volume	IEEE double precision float
13584	13587	Trans Run Data Batch 5	Additive 15 Volume	IEEE double precision float
13588	13591	Trans Run Data Batch 5	Additive 16 Volume	IEEE double precision float
13592	13595	Trans Run Data Batch 5	Additive 17 Volume	IEEE double precision float
13596	13599	Trans Run Data Batch 5	Additive 18 Volume	IEEE double precision float
13600	13603	Trans Run Data Batch 5	Additive 19 Volume	IEEE double precision float
13604	13607	Trans Run Data Batch 5	Additive 20 Volume	IEEE double precision float
13608	13611	Trans Run Data Batch 5	Additive 21 Volume	IEEE double precision float
13612	13615	Trans Run Data Batch 5	Additive 22 Volume	IEEE double precision float
13616	13619	Trans Run Data Batch 5	Additive 23 Volume	IEEE double precision float
13620	13623	Trans Run Data Batch 5	Additive 24 Volume	IEEE double precision float
13624	13627	Trans Run Data Batch 5	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
13628	13631	Trans Run Data Batch 5	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
13632	13635	Trans Run Data Batch 5	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
13636	13639	Trans Run Data Batch 5	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
13640	13643	Trans Run Data Batch 5	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
13644	13647	Trans Run Data Batch 5	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
13648	13651	Trans Run Data Batch 5	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
13652	13655	Trans Run Data Batch 5	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
13656	13659	Trans Run Data Batch 5	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
13660	13663	Trans Run Data Batch 5	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
13664	13667	Trans Run Data Batch 5	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
13668	13671	Trans Run Data Batch 5	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
13672	13675	Trans Run Data Batch 5	Flow Controlled Additive #1 Mass	IEEE double precision float
13676	13679	Trans Run Data Batch 5	Flow Controlled Additive #2 Mass	IEEE double precision float
13680	13683	Trans Run Data Batch 5	Flow Controlled Additive #3 Mass	IEEE double precision float
13684	13687	Trans Run Data Batch 5	Flow Controlled Additive #4 Mass	IEEE double precision float
13688	13691	Trans Run Data Batch 5	Straight Arm with VRS Recovered Mass	IEEE double precision float
13692	13695	Trans Run Data Batch 5	Straight Arm with VRS Net Mass	IEEE double precision float
13824		Trans Run Data Batch 5	Product Number	unsigned character
13825		Trans Run Data Batch 5	Recipe Number ("1" based; 1 = recipe 1)	unsigned character
13826		Trans Run Data Batch 5	HM Class Product	unsigned character
13827		Trans Run Data Batch 5	Batch Number	unsigned character
13828		Trans Run Data Batch 5	Prove Trip Accepted	Unsigned character
13829		Trans Run Data Batch 5	Batch Load Arm	Unsigned character
13888	13889	Trans Run Data Batch 5	Additive Mask	unsigned long integer
14208	14209	Trans Run Data Batch 5	P1 Average Flow Rate	IEEE single precision float
14210	14211	Trans Run Data Batch 5	P2 Average Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
14212	14213	Trans Run Data Batch 5	P3 Average Flow Rate	IEEE single precision float
14214	14215	Trans Run Data Batch 5	P4 Average Flow Rate	IEEE single precision float
14216	14217	Trans Run Data Batch 5	P5 Average Flow Rate	IEEE single precision float
14218	14219	Trans Run Data Batch 5	P6 Average Flow Rate	IEEE single precision float
14220	14221	Trans Run Data Batch 5	P1 Load Average Meter Factor	IEEE single precision float
14222	14223	Trans Run Data Batch 5	P2 Load Average Meter Factor	IEEE single precision float
14224	14225	Trans Run Data Batch 5	P3 Load Average Meter Factor	IEEE single precision float
14226	14227	Trans Run Data Batch 5	P4 Load Average Meter Factor	IEEE single precision float
14228	14229	Trans Run Data Batch 5	P5 Load Average Meter Factor	IEEE single precision float
14230	14231	Trans Run Data Batch 5	P6 Load Average Meter Factor	IEEE single precision float
14232	14233	Trans Run Data Batch 5	P1 Load Average Temperature	IEEE single precision float
14234	14235	Trans Run Data Batch 5	P2 Load Average Temperature	IEEE single precision float
14236	14237	Trans Run Data Batch 5	P3 Load Average Temperature	IEEE single precision float
14238	14239	Trans Run Data Batch 5	P4 Load Average Temperature	IEEE single precision float
14240	14241	Trans Run Data Batch 5	P5 Load Average Temperature	IEEE single precision float
14242	14243	Trans Run Data Batch 5	P6 Load Average Temperature	IEEE single precision float
14244	14245	Trans Run Data Batch 5	P1 Load Average Density	IEEE single precision float
14246	14247	Trans Run Data Batch 5	P2 Load Average Density	IEEE single precision float
14248	14249	Trans Run Data Batch 5	P3 Load Average Density	IEEE single precision float
14250	14251	Trans Run Data Batch 5	P4 Load Average Density	IEEE single precision float
14252	14253	Trans Run Data Batch 5	P5 Load Average Density	IEEE single precision float
14254	14255	Trans Run Data Batch 5	P6 Load Average Density	IEEE single precision float
14256	14257	Trans Run Data Batch 5	P1 Load Average Pressure	IEEE single precision float
14258	14259	Trans Run Data Batch 5	P2 Load Average Pressure	IEEE single precision float
14260	14261	Trans Run Data Batch 5	P3 Load Average Pressure	IEEE single precision float
14262	14263	Trans Run Data Batch 5	P4 Load Average Pressure	IEEE single precision float
14264	14265	Trans Run Data Batch 5	P5 Load Average Pressure	IEEE single precision float
14266	14267	Trans Run Data Batch 5	P6 Load Average Pressure	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
14268	14269	Trans Run Data Batch 5	P1 Average CTL	IEEE single precision float
14270	14271	Trans Run Data Batch 5	P2 Average CTL	IEEE single precision float
14272	14273	Trans Run Data Batch 5	P3 Average CTL	IEEE single precision float
14274	14275	Trans Run Data Batch 5	P4 Average CTL	IEEE single precision float
14276	14277	Trans Run Data Batch 5	P5 Average CTL	IEEE single precision float
14278	14279	Trans Run Data Batch 5	P6 Average CTL	IEEE single precision float
14280	14281	Trans Run Data Batch 5	P1 Average CPL	IEEE single precision float
14282	14283	Trans Run Data Batch 5	P2 Average CPL	IEEE single precision float
14284	14285	Trans Run Data Batch 5	P3 Average CPL	IEEE single precision float
14286	14287	Trans Run Data Batch 5	P4 Average CPL	IEEE single precision float
14288	14289	Trans Run Data Batch 5	P5 Average CPL	IEEE single precision float
14290	14291	Trans Run Data Batch 5	P6 Average CPL	IEEE single precision float
14292	14293	Trans Run Data Batch 5	P1 CCF	IEEE single precision float
14294	14295	Trans Run Data Batch 5	P2 CCF	IEEE single precision float
14296	14297	Trans Run Data Batch 5	P3 CCF	IEEE single precision float
14298	14299	Trans Run Data Batch 5	P4 CCF	IEEE single precision float
14300	14301	Trans Run Data Batch 5	P5 CCF	IEEE single precision float
14302	14303	Trans Run Data Batch 5	P6 CCF	IEEE single precision float
14304	14305	Trans Run Data Batch 5	P1 Average Reference Density	IEEE single precision float
14306	14307	Trans Run Data Batch 5	P2 Average Reference Density	IEEE single precision float
14308	14309	Trans Run Data Batch 5	P3 Average Reference Density	IEEE single precision float
14310	14311	Trans Run Data Batch 5	P4 Average Reference Density	IEEE single precision float
14312	14313	Trans Run Data Batch 5	P5 Average Reference Density	IEEE single precision float
14314	14315	Trans Run Data Batch 5	P6 Average Reference Density	IEEE single precision float
14316	14317	Trans Run Data Batch 5	P1 Average Relative Density	IEEE single precision float
14318	14319	Trans Run Data Batch 5	P2 Average Relative Density	IEEE single precision float
14320	14321	Trans Run Data Batch 5	P3 Average Relative Density	IEEE single precision float
14322	14323	Trans Run Data Batch 5	P4 Average Relative Density	IEEE single precision float
14324	14325	Trans Run Data Batch 5	P5 Average Relative Density	IEEE single precision float
14326	14327	Trans Run Data Batch 5	P6 Average Relative Density	IEEE single precision float
14328	14329	Trans Run Data Batch 5	P1 Average API @ Ref Temp	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
14330	14331	Trans Run Data Batch 5	P2 Average API @ Ref Temp	IEEE single precision float
14332	14333	Trans Run Data Batch 5	P3 Average API @ Ref Temp	IEEE single precision float
14334	14335	Trans Run Data Batch 5	P4 Average API @ Ref Temp	IEEE single precision float
14336	14337	Trans Run Data Batch 5	P5 Average API @ Ref Temp	IEEE single precision float
14338	14339	Trans Run Data Batch 5	P6 Average API @ Ref Temp	IEEE single precision float
14340	14341	Trans Run Data Batch 5	P1 Average Vapor Pressure	IEEE single precision float
14342	14343	Trans Run Data Batch 5	P2 Average Vapor Pressure	IEEE single precision float
14344	14345	Trans Run Data Batch 5	P3 Average Vapor Pressure	IEEE single precision float
14346	14347	Trans Run Data Batch 5	P4 Average Vapor Pressure	IEEE single precision float
14348	14349	Trans Run Data Batch 5	P5 Average Vapor Pressure	IEEE single precision float
14350	14351	Trans Run Data Batch 5	P6 Average Vapor Pressure	IEEE single precision float
14352	14353	Trans Run Data Batch 5	P1 Average CTPL	IEEE single precision float
14354	14355	Trans Run Data Batch 5	P2 Average CTPL	IEEE single precision float
14356	14357	Trans Run Data Batch 5	P3 Average CTPL	IEEE single precision float
14358	14359	Trans Run Data Batch 5	P4 Average CTPL	IEEE single precision float
14360	14361	Trans Run Data Batch 5	P5 Average CTPL	IEEE single precision float
14362	14363	Trans Run Data Batch 5	P6 Average CTPL	IEEE single precision float
14528	14531	Trans Run Data Batch 5	Batch P1 Total Pulses	IEEE double precision float
14532	14535	Trans Run Data Batch 5	Batch P2 Total Pulses	IEEE double precision float
14536	14539	Trans Run Data Batch 5	Batch P3 Total Pulses	IEEE double precision float
14540	14543	Trans Run Data Batch 5	Batch P4 Total Pulses	IEEE double precision float
14544	14547	Trans Run Data Batch 5	Batch P5 Total Pulses	IEEE double precision float
14548	14551	Trans Run Data Batch 5	Batch P6 Total Pulses	IEEE double precision float
14552	14555	Trans Run Data Batch 5	Batch P1 Indicated Volume (IV)	IEEE double precision float
14556	14559	Trans Run Data Batch 5	Batch P2 Indicated Volume (IV)	IEEE double precision float
14560	14563	Trans Run Data Batch 5	Batch P3 Indicated Volume (IV)	IEEE double precision float
14564	14567	Trans Run Data Batch 5	Batch P4 Indicated Volume (IV)	IEEE double precision float
14568	14571	Trans Run Data Batch 5	Batch P5 Indicated Volume (IV)	IEEE double precision float
14572	14575	Trans Run Data Batch 5	Batch P6 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
14576	14579	Trans Run Data Batch 5	Batch P1 Gross Volume (GV)	IEEE double precision float
14580	14583	Trans Run Data Batch 5	Batch P2 Gross Volume (GV)	IEEE double precision float
14584	14587	Trans Run Data Batch 5	Batch P3 Gross Volume (GV)	IEEE double precision float
14588	14591	Trans Run Data Batch 5	Batch P4 Gross Volume (GV)	IEEE double precision float
14592	14595	Trans Run Data Batch 5	Batch P5 Gross Volume (GV)	IEEE double precision float
14596	14599	Trans Run Data Batch 5	Batch P6 Gross Volume (GV)	IEEE double precision float
14600	14603	Trans Run Data Batch 5	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
14604	14607	Trans Run Data Batch 5	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
14608	14611	Trans Run Data Batch 5	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
14612	14615	Trans Run Data Batch 5	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
14616	14619	Trans Run Data Batch 5	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
14620	14623	Trans Run Data Batch 5	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
14624	14627	Trans Run Data Batch 5	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14628	14631	Trans Run Data Batch 5	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14632	14635	Trans Run Data Batch 5	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14636	14639	Trans Run Data Batch 5	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14640	14643	Trans Run Data Batch 5	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14644	14647	Trans Run Data Batch 5	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
14648	14651	Trans Run Data Batch 5	Batch P1 Mass Total	IEEE double precision float
14652	14655	Trans Run Data Batch 5	Batch P2 Mass Total	IEEE double precision float
14656	14659	Trans Run Data Batch 5	Batch P3 Mass Total	IEEE double precision float
14660	14663	Trans Run Data Batch 5	Batch P4 Mass Total	IEEE double precision float
14664	14667	Trans Run Data Batch 5	Batch P5 Mass Total	IEEE double precision float
14668	14671	Trans Run Data Batch 5	Batch P6 Mass Total	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
14848	14855	Trans Run Data Batch 6	1st Alarm in Batch	Text (char[16])
14856	14863	Trans Run Data Batch 6	2nd Alarm in Batch	Text (char[16])
14864	14871	Trans Run Data Batch 6	3rd Alarm in Batch	Text (char[16])
14872	14879	Trans Run Data Batch 6	4th Alarm in Batch	Text (char[16])
14880	14887	Trans Run Data Batch 6	5th Alarm in Batch	Text (char[16])
14888	14895	Trans Run Data Batch 6	6th Alarm in Batch	Text (char[16])
14896	14903	Trans Run Data Batch 6	7th Alarm in Batch	Text (char[16])
14904	14911	Trans Run Data Batch 6	8th Alarm in Batch	Text (char[16])
14912	14919	Trans Run Data Batch 6	9th Alarm in Batch	Text (char[16])
14920	14927	Trans Run Data Batch 6	10th Alarm in Batch	Text (char[16])
14976	14977	Trans Run Data Batch 6	Average Flow Rate	IEEE single precision float
14978	14979	Trans Run Data Batch 6	Load Average Meter Factor	IEEE single precision float
14980	14981	Trans Run Data Batch 6	Load Average Temperature	IEEE single precision float
14982	14983	Trans Run Data Batch 6	Load Average Density	IEEE single precision float
14984	14985	Trans Run Data Batch 6	Load Average Pressure	IEEE single precision float
14986	14987	Trans Run Data Batch 6	Average CTL	IEEE single precision float
14988	14989	Trans Run Data Batch 6	Average CPL	IEEE single precision float
14990	14991	Trans Run Data Batch 6	Contaminant Percentage	IEEE single precision float
14992	14993	Trans Run Data Batch 6	Last Density Sample	IEEE single precision float
15040	15043	Trans Run Data Batch 6	Total Pulses	IEEE double precision float
15044	15047	Trans Run Data Batch 6	Indicated Volume (IV)	IEEE double precision float
15048	15051	Trans Run Data Batch 6	Gross Volume (GV)	IEEE double precision float
15052	15055	Trans Run Data Batch 6	Gross Volume @ Std Temp (GST)	IEEE double precision float
15056	15059	Trans Run Data Batch 6	Gross @ Std Temp & Press (GSV)	IEEE double precision float
15060	15063	Trans Run Data Batch 6	Mass Total	IEEE double precision float
15064	15067	Trans Run Data Batch 6	Additive 1 Volume	IEEE double precision float
15068	15071	Trans Run Data Batch 6	Additive 2 Volume	IEEE double precision float
15072	15075	Trans Run Data Batch 6	Additive 3 Volume	IEEE double precision float
15076	15079	Trans Run Data Batch 6	Additive 4 Volume	IEEE double precision float
15080	15083	Trans Run Data Batch 6	Additive 5 Volume	IEEE double precision float
15084	15087	Trans Run Data Batch 6	Additive 6 Volume	IEEE double precision float
15088	15091	Trans Run Data Batch 6	Additive 7 Volume	IEEE double precision float
15092	15095	Trans Run Data Batch 6	Additive 8 Volume	IEEE double precision float
15096	15099	Trans Run Data Batch 6	Additive 9 Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
15100	15103	Trans Run Data Batch 6	Additive 10 Volume	IEEE double precision float
15104	15107	Trans Run Data Batch 6	Additive 11 Volume	IEEE double precision float
15108	15111	Trans Run Data Batch 6	Additive 12 Volume	IEEE double precision float
15112	15115	Trans Run Data Batch 6	Additive 13 Volume	IEEE double precision float
15116	15119	Trans Run Data Batch 6	Additive 14 Volume	IEEE double precision float
15120	15123	Trans Run Data Batch 6	Additive 15 Volume	IEEE double precision float
15124	15127	Trans Run Data Batch 6	Additive 16 Volume	IEEE double precision float
15128	15131	Trans Run Data Batch 6	Additive 17 Volume	IEEE double precision float
15132	15135	Trans Run Data Batch 6	Additive 18 Volume	IEEE double precision float
15136	15139	Trans Run Data Batch 6	Additive 19 Volume	IEEE double precision float
15140	15143	Trans Run Data Batch 6	Additive 20 Volume	IEEE double precision float
15144	15147	Trans Run Data Batch 6	Additive 21 Volume	IEEE double precision float
15148	15151	Trans Run Data Batch 6	Additive 22 Volume	IEEE double precision float
15152	15155	Trans Run Data Batch 6	Additive 23 Volume	IEEE double precision float
15156	15159	Trans Run Data Batch 6	Additive 24 Volume	IEEE double precision float
15160	15163	Trans Run Data Batch 6	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
15164	15167	Trans Run Data Batch 6	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
15168	15171	Trans Run Data Batch 6	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
15172	15175	Trans Run Data Batch 6	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
15176	15179	Trans Run Data Batch 6	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
15180	15183	Trans Run Data Batch 6	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
15184	15187	Trans Run Data Batch 6	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
15188	15191	Trans Run Data Batch 6	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
15192	15195	Trans Run Data Batch 6	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
15196	15199	Trans Run Data Batch 6	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
15200	15203	Trans Run Data Batch 6	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
15204	15207	Trans Run Data Batch 6	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
15208	15211	Trans Run Data Batch 6	Flow Controlled Additive #1 Mass	IEEE double precision float
15212	15215	Trans Run Data Batch 6	Flow Controlled Additive #2 Mass	IEEE double precision float
15216	15219	Trans Run Data Batch 6	Flow Controlled Additive #3 Mass	IEEE double precision float
15220	15223	Trans Run Data Batch 6	Flow Controlled Additive #4 Mass	IEEE double precision float
15224	15227	Trans Run Data Batch 6	Straight Arm with VRS Recovered Mass	IEEE double precision float
15228	15231	Trans Run Data Batch 6	Straight Arm with VRS Net Mass	IEEE double precision float
15360		Trans Run Data Batch 6	Product Number	unsigned char
15361		Trans Run Data Batch 6	Recipe Number ("1" based; 1 = recipe 1)	unsigned char
15362		Trans Run Data Batch 6	HM Class Product	unsigned char
15363		Trans Run Data Batch 6	Batch Number	unsigned char
15364		Trans Run Data Batch 6	Prove Trip Accepted	unsigned char
15365		Trans Run Data Batch 6	Batch Load Arm	unsigned char
15424	15425	Trans Run Data Batch 6	Additive Mask	unsigned long integer
15744	15745	Trans Run Data Batch 6	P1 Average Flow Rate	IEEE single precision float
15746	15747	Trans Run Data Batch 6	P2 Average Flow Rate	IEEE single precision float
15748	15749	Trans Run Data Batch 6	P3 Average Flow Rate	IEEE single precision float
15750	15751	Trans Run Data Batch 6	P4 Average Flow Rate	IEEE single precision float
15752	15753	Trans Run Data Batch 6	P5 Average Flow Rate	IEEE single precision float
15754	15755	Trans Run Data Batch 6	P6 Average Flow Rate	IEEE single precision float
15756	15757	Trans Run Data Batch 6	P1 Load Average Meter Factor	IEEE single precision float
15758	15759	Trans Run Data Batch 6	P2 Load Average Meter Factor	IEEE single precision float
15760	15761	Trans Run Data Batch 6	P3 Load Average Meter Factor	IEEE single precision float
15762	15763	Trans Run Data Batch 6	P4 Load Average Meter Factor	IEEE single precision float
15764	15765	Trans Run Data Batch 6	P5 Load Average Meter Factor	IEEE single precision float
15766	15767	Trans Run Data Batch 6	P6 Load Average Meter Factor	IEEE single precision float
15768	15769	Trans Run Data Batch 6	P1 Load Average Temperature	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
15770	15771	Trans Run Data Batch 6	P2 Load Average Temperature	IEEE single precision float
15772	15773	Trans Run Data Batch 6	P3 Load Average Temperature	IEEE single precision float
15774	15775	Trans Run Data Batch 6	P4 Load Average Temperature	IEEE single precision float
15776	15777	Trans Run Data Batch 6	P5 Load Average Temperature	IEEE single precision float
15778	15779	Trans Run Data Batch 6	P6 Load Average Temperature	IEEE single precision float
15780	15781	Trans Run Data Batch 6	P1 Load Average Density	IEEE single precision float
15782	15783	Trans Run Data Batch 6	P2 Load Average Density	IEEE single precision float
15784	15785	Trans Run Data Batch 6	P3 Load Average Density	IEEE single precision float
15786	15787	Trans Run Data Batch 6	P4 Load Average Density	IEEE single precision float
15788	15789	Trans Run Data Batch 6	P5 Load Average Density	IEEE single precision float
15790	15791	Trans Run Data Batch 6	P6 Load Average Density	IEEE single precision float
15792	15793	Trans Run Data Batch 6	P1 Load Average Pressure	IEEE single precision float
15794	15795	Trans Run Data Batch 6	P2 Load Average Pressure	IEEE single precision float
15796	15797	Trans Run Data Batch 6	P3 Load Average Pressure	IEEE single precision float
15798	15799	Trans Run Data Batch 6	P4 Load Average Pressure	IEEE single precision float
15800	15801	Trans Run Data Batch 6	P5 Load Average Pressure	IEEE single precision float
15802	15803	Trans Run Data Batch 6	P6 Load Average Pressure	IEEE single precision float
15804	15805	Trans Run Data Batch 6	P1 Average CTL	IEEE single precision float
15806	15807	Trans Run Data Batch 6	P2 Average CTL	IEEE single precision float
15808	15809	Trans Run Data Batch 6	P3 Average CTL	IEEE single precision float
15810	15811	Trans Run Data Batch 6	P4 Average CTL	IEEE single precision float
15812	15813	Trans Run Data Batch 6	P5 Average CTL	IEEE single precision float
15814	15815	Trans Run Data Batch 6	P6 Average CTL	IEEE single precision float
15816	15817	Trans Run Data Batch 6	P1 Average CPL	IEEE single precision float
15818	15819	Trans Run Data Batch 6	P2 Average CPL	IEEE single precision float
15820	15821	Trans Run Data Batch 6	P3 Average CPL	IEEE single precision float
15822	15823	Trans Run Data Batch 6	P4 Average CPL	IEEE single precision float
15824	15825	Trans Run Data Batch 6	P5 Average CPL	IEEE single precision float
15826	15827	Trans Run Data Batch 6	P6 Average CPL	IEEE single precision float
15828	15829	Trans Run Data Batch 6	P1 CCF	IEEE single precision float
15830	15831	Trans Run Data Batch 6	P2 CCF	IEEE single precision float
15832	15833	Trans Run Data Batch 6	P3 CCF	IEEE single precision float
15834	15835	Trans Run Data Batch 6	P4 CCF	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
15836	15837	Trans Run Data Batch 6	P5 CCF	IEEE single precision float
15838	15839	Trans Run Data Batch 6	P6 CCF	IEEE single precision float
15840	15841	Trans Run Data Batch 6	P1 Average Reference Density	IEEE single precision float
15842	15843	Trans Run Data Batch 6	P2 Average Reference Density	IEEE single precision float
15844	15845	Trans Run Data Batch 6	P3 Average Reference Density	IEEE single precision float
15846	15847	Trans Run Data Batch 6	P4 Average Reference Density	IEEE single precision float
15848	15849	Trans Run Data Batch 6	P5 Average Reference Density	IEEE single precision float
15850	15851	Trans Run Data Batch 6	P6 Average Reference Density	IEEE single precision float
15852	15853	Trans Run Data Batch 6	P1 Average Relative Density	IEEE single precision float
15854	15855	Trans Run Data Batch 6	P2 Average Relative Density	IEEE single precision float
15856	15857	Trans Run Data Batch 6	P3 Average Relative Density	IEEE single precision float
15858	15859	Trans Run Data Batch 6	P4 Average Relative Density	IEEE single precision float
15860	15861	Trans Run Data Batch 6	P5 Average Relative Density	IEEE single precision float
15862	15863	Trans Run Data Batch 6	P6 Average Relative Density	IEEE single precision float
15864	15865	Trans Run Data Batch 6	P1 Average API @ Ref Temp	IEEE single precision float
15866	15867	Trans Run Data Batch 6	P2 Average API @ Ref Temp	IEEE single precision float
15868	15869	Trans Run Data Batch 6	P3 Average API @ Ref Temp	IEEE single precision float
15870	15871	Trans Run Data Batch 6	P4 Average API @ Ref Temp	IEEE single precision float
15872	15873	Trans Run Data Batch 6	P5 Average API @ Ref Temp	IEEE single precision float
15874	15875	Trans Run Data Batch 6	P6 Average API @ Ref Temp	IEEE single precision float
15876	15877	Trans Run Data Batch 6	P1 Average Vapor Pressure	IEEE single precision float
15878	15879	Trans Run Data Batch 6	P2 Average Vapor Pressure	IEEE single precision float
15880	15881	Trans Run Data Batch 6	P3 Average Vapor Pressure	IEEE single precision float
15882	15883	Trans Run Data Batch 6	P4 Average Vapor Pressure	IEEE single precision float
15884	15885	Trans Run Data Batch 6	P5 Average Vapor Pressure	IEEE single precision float
15886	15887	Trans Run Data Batch 6	P6 Average Vapor Pressure	IEEE single precision float
15888	15889	Trans Run Data Batch 6	P1 Average CTPL	IEEE single precision float
15890	15891	Trans Run Data Batch 6	P2 Average CTPL	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
15892	15893	Trans Run Data Batch 6	P3 Average CTPL	IEEE single precision float
15894	15895	Trans Run Data Batch 6	P4 Average CTPL	IEEE single precision float
15896	15897	Trans Run Data Batch 6	P5 Average CTPL	IEEE single precision float
15898	15899	Trans Run Data Batch 6	P6 Average CTPL	IEEE single precision float
16064	16067	Trans Run Data Batch 6	Batch P1 Total Pulses	IEEE double precision float
16068	16071	Trans Run Data Batch 6	Batch P2 Total Pulses	IEEE double precision float
16072	16075	Trans Run Data Batch 6	Batch P3 Total Pulses	IEEE double precision float
16076	16079	Trans Run Data Batch 6	Batch P4 Total Pulses	IEEE double precision float
16080	16083	Trans Run Data Batch 6	Batch P5 Total Pulses	IEEE double precision float
16084	16087	Trans Run Data Batch 6	Batch P6 Total Pulses	IEEE double precision float
16088	16091	Trans Run Data Batch 6	Batch P1 Indicated Volume (IV)	IEEE double precision float
16092	16095	Trans Run Data Batch 6	Batch P2 Indicated Volume (IV)	IEEE double precision float
16096	16099	Trans Run Data Batch 6	Batch P3 Indicated Volume (IV)	IEEE double precision float
16100	16103	Trans Run Data Batch 6	Batch P4 Indicated Volume (IV)	IEEE double precision float
16104	16107	Trans Run Data Batch 6	Batch P5 Indicated Volume (IV)	IEEE double precision float
16108	16111	Trans Run Data Batch 6	Batch P6 Indicated Volume (IV)	IEEE double precision float
16112	16115	Trans Run Data Batch 6	Batch P1 Gross Volume (GV)	IEEE double precision float
16116	16119	Trans Run Data Batch 6	Batch P2 Gross Volume (GV)	IEEE double precision float
16120	16123	Trans Run Data Batch 6	Batch P3 Gross Volume (GV)	IEEE double precision float
16124	16127	Trans Run Data Batch 6	Batch P4 Gross Volume (GV)	IEEE double precision float
16128	16131	Trans Run Data Batch 6	Batch P5 Gross Volume (GV)	IEEE double precision float
16132	16135	Trans Run Data Batch 6	Batch P6 Gross Volume (GV)	IEEE double precision float
16136	16139	Trans Run Data Batch 6	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
16140	16143	Trans Run Data Batch 6	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
16144	16147	Trans Run Data Batch 6	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
16148	16151	Trans Run Data Batch 6	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
16152	16155	Trans Run Data Batch 6	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
16156	16159	Trans Run Data Batch 6	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
16160	16163	Trans Run Data Batch 6	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16164	16167	Trans Run Data Batch 6	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16168	16171	Trans Run Data Batch 6	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16172	16175	Trans Run Data Batch 6	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16176	16179	Trans Run Data Batch 6	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16180	16183	Trans Run Data Batch 6	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
16184	16187	Trans Run Data Batch 6	Batch P1 Mass Total	IEEE double precision float
16188	16191	Trans Run Data Batch 6	Batch P2 Mass Total	IEEE double precision float
16192	16195	Trans Run Data Batch 6	Batch P3 Mass Total	IEEE double precision float
16196	16199	Trans Run Data Batch 6	Batch P4 Mass Total	IEEE double precision float
16200	16203	Trans Run Data Batch 6	Batch P5 Mass Total	IEEE double precision float
16204	16207	Trans Run Data Batch 6	Batch P6 Mass Total	IEEE double precision float
16384	16391	Trans Run Data Batch 7	1st Alarm in Batch	Text (char[16])
16392	16399	Trans Run Data Batch 7	2nd Alarm in Batch	Text (char[16])
16400	16407	Trans Run Data Batch 7	3rd Alarm in Batch	Text (char[16])
16408	16415	Trans Run Data Batch 7	4th Alarm in Batch	Text (char[16])
16416	16423	Trans Run Data Batch 7	5th Alarm in Batch	Text (char[16])
16424	16431	Trans Run Data Batch 7	6th Alarm in Batch	Text (char[16])
16432	16439	Trans Run Data Batch 7	7th Alarm in Batch	Text (char[16])
16440	16447	Trans Run Data Batch 7	8th Alarm in Batch	Text (char[16])
16448	16455	Trans Run Data Batch 7	9th Alarm in Batch	Text (char[16])
16456	16463	Trans Run Data Batch 7	10th Alarm in Batch	Text (char[16])
16512	16513	Trans Run Data Batch 7	Average Flow Rate	IEEE single precision float
16514	16515	Trans Run Data Batch 7	Load Average Meter Factor	IEEE single precision float
16516	16517	Trans Run Data Batch 7	Load Average Temperature	IEEE single precision float
16518	16519	Trans Run Data Batch 7	Load Average Density	IEEE single precision float
16520	16521	Trans Run Data Batch 7	Load Average Pressure	IEEE single precision float
16522	16523	Trans Run Data Batch 7	Average CTL	IEEE single precision float
16524	16525	Trans Run Data Batch 7	Average CPL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
16526	16527	Trans Run Data Batch 7	Contaminant Percentage	IEEE single precision float
16528	16529	Trans Run Data Batch 7	Last Density Sample	IEEE single precision float
16576	16579	Trans Run Data Batch 7	Total Pulses	IEEE double precision float
16580	16583	Trans Run Data Batch 7	Indicated Volume (IV)	IEEE double precision float
16584	16587	Trans Run Data Batch 7	Gross Volume (GV)	IEEE double precision float
16588	16591	Trans Run Data Batch 7	Gross Volume @ Std Temp (GST)	IEEE double precision float
16592	16595	Trans Run Data Batch 7	Gross @ Std Temp & Press (GSV)	IEEE double precision float
16596	16599	Trans Run Data Batch 7	Mass Total	IEEE double precision float
16600	16603	Trans Run Data Batch 7	Additive 1 Volume	IEEE double precision float
16604	16607	Trans Run Data Batch 7	Additive 2 Volume	IEEE double precision float
16608	16611	Trans Run Data Batch 7	Additive 3 Volume	IEEE double precision float
16612	16615	Trans Run Data Batch 7	Additive 4 Volume	IEEE double precision float
16616	16619	Trans Run Data Batch 7	Additive 5 Volume	IEEE double precision float
16620	16623	Trans Run Data Batch 7	Additive 6 Volume	IEEE double precision float
16624	16627	Trans Run Data Batch 7	Additive 7 Volume	IEEE double precision float
16628	16631	Trans Run Data Batch 7	Additive 8 Volume	IEEE double precision float
16632	16635	Trans Run Data Batch 7	Additive 9 Volume	IEEE double precision float
16636	16639	Trans Run Data Batch 7	Additive 10 Volume	IEEE double precision float
16640	16643	Trans Run Data Batch 7	Additive 11 Volume	IEEE double precision float
16644	16647	Trans Run Data Batch 7	Additive 12 Volume	IEEE double precision float
16648	16651	Trans Run Data Batch 7	Additive 13 Volume	IEEE double precision float
16652	16655	Trans Run Data Batch 7	Additive 14 Volume	IEEE double precision float
16656	16659	Trans Run Data Batch 7	Additive 15 Volume	IEEE double precision float
16660	16663	Trans Run Data Batch 7	Additive 16 Volume	IEEE double precision float
16664	16667	Trans Run Data Batch 7	Additive 17 Volume	IEEE double precision float
16668	16671	Trans Run Data Batch 7	Additive 18 Volume	IEEE double precision float
16672	16675	Trans Run Data Batch 7	Additive 19 Volume	IEEE double precision float
16676	16679	Trans Run Data Batch 7	Additive 20 Volume	IEEE double precision float
16680	16683	Trans Run Data Batch 7	Additive 21 Volume	IEEE double precision float
16684	16687	Trans Run Data Batch 7	Additive 22 Volume	IEEE double precision float
16688	16691	Trans Run Data Batch 7	Additive 23 Volume	IEEE double precision float
16692	16695	Trans Run Data Batch 7	Additive 24 Volume	IEEE double precision float
16696	16699	Trans Run Data Batch 7	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
16700	16703	Trans Run Data Batch 7	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
16704	16707	Trans Run Data Batch 7	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
16708	16711	Trans Run Data Batch 7	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
16712	16715	Trans Run Data Batch 7	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
16716	16719	Trans Run Data Batch 7	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
16720	16723	Trans Run Data Batch 7	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
16724	16727	Trans Run Data Batch 7	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
16728	16731	Trans Run Data Batch 7	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
16732	16735	Trans Run Data Batch 7	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
16736	16739	Trans Run Data Batch 7	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
16740	16743	Trans Run Data Batch 7	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
16744	16747	Trans Run Data Batch 7	Flow Controlled Additive #1 Mass	IEEE double precision float
16748	16751	Trans Run Data Batch 7	Flow Controlled Additive #2 Mass	IEEE double precision float
16752	16755	Trans Run Data Batch 7	Flow Controlled Additive #3 Mass	IEEE double precision float
16756	16759	Trans Run Data Batch 7	Flow Controlled Additive #4 Mass	IEEE double precision float
16760	16763	Trans Run Data Batch 7	Straight Arm with VRS Recovered Mass	IEEE double precision float
16764	16767	Trans Run Data Batch 7	Straight Arm with VRS Net Mass	IEEE double precision float
16896		Trans Run Data Batch 7	Product Number	unsigned char
16897		Trans Run Data Batch 7	Recipe Number ("1" based; 1 = recipe 1)	unsigned char
16898		Trans Run Data Batch 7	HM Class Product	unsigned char
16899		Trans Run Data Batch 7	Batch Number	unsigned char
16900		Trans Run Data Batch 7	Prove Trip Accepted	unsigned char
16901		Trans Run Data Batch 7	Batch Load Arm	unsigned char
16960	16961	Trans Run Data Batch 7	Additive Mask	unsigned long integer

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
17280	17281	Trans Run Data Batch 7	P1 Average Flow Rate	IEEE single precision float
17282	17283	Trans Run Data Batch 7	P2 Average Flow Rate	IEEE single precision float
17284	17285	Trans Run Data Batch 7	P3 Average Flow Rate	IEEE single precision float
17286	17287	Trans Run Data Batch 7	P4 Average Flow Rate	IEEE single precision float
17288	17289	Trans Run Data Batch 7	P5 Average Flow Rate	IEEE single precision float
17290	17291	Trans Run Data Batch 7	P6 Average Flow Rate	IEEE single precision float
17292	17293	Trans Run Data Batch 7	P1 Load Average Meter Factor	IEEE single precision float
17294	17295	Trans Run Data Batch 7	P2 Load Average Meter Factor	IEEE single precision float
17296	17297	Trans Run Data Batch 7	P3 Load Average Meter Factor	IEEE single precision float
17298	17299	Trans Run Data Batch 7	P4 Load Average Meter Factor	IEEE single precision float
17300	17301	Trans Run Data Batch 7	P5 Load Average Meter Factor	IEEE single precision float
17302	17303	Trans Run Data Batch 7	P6 Load Average Meter Factor	IEEE single precision float
17304	17305	Trans Run Data Batch 7	P1 Load Average Temperature	IEEE single precision float
17306	17307	Trans Run Data Batch 7	P2 Load Average Temperature	IEEE single precision float
17308	17309	Trans Run Data Batch 7	P3 Load Average Temperature	IEEE single precision float
17310	17311	Trans Run Data Batch 7	P4 Load Average Temperature	IEEE single precision float
17312	17313	Trans Run Data Batch 7	P5 Load Average Temperature	IEEE single precision float
17314	17315	Trans Run Data Batch 7	P6 Load Average Temperature	IEEE single precision float
17316	17317	Trans Run Data Batch 7	P1 Load Average Density	IEEE single precision float
17318	17319	Trans Run Data Batch 7	P2 Load Average Density	IEEE single precision float
17320	17321	Trans Run Data Batch 7	P3 Load Average Density	IEEE single precision float
17322	17323	Trans Run Data Batch 7	P4 Load Average Density	IEEE single precision float
17324	17325	Trans Run Data Batch 7	P5 Load Average Density	IEEE single precision float
17326	17327	Trans Run Data Batch 7	P6 Load Average Density	IEEE single precision float
17328	17329	Trans Run Data Batch 7	P1 Load Average Pressure	IEEE single precision float
17330	17331	Trans Run Data Batch 7	P2 Load Average Pressure	IEEE single precision float
17332	17333	Trans Run Data Batch 7	P3 Load Average Pressure	IEEE single precision float
17334	17335	Trans Run Data Batch 7	P4 Load Average Pressure	IEEE single precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
17336	17337	Trans Run Data Batch 7	P5 Load Average Pressure	IEEE single precision float
17338	17339	Trans Run Data Batch 7	P6 Load Average Pressure	IEEE single precision float
17340	17341	Trans Run Data Batch 7	P1 Average CTL	IEEE single precision float
17342	17343	Trans Run Data Batch 7	P2 Average CTL	IEEE single precision float
17344	17345	Trans Run Data Batch 7	P3 Average CTL	IEEE single precision float
17346	17347	Trans Run Data Batch 7	P4 Average CTL	IEEE single precision float
17348	17349	Trans Run Data Batch 7	P5 Average CTL	IEEE single precision float
17350	17351	Trans Run Data Batch 7	P6 Average CTL	IEEE single precision float
17352	17353	Trans Run Data Batch 7	P1 Average CPL	IEEE single precision float
17354	17355	Trans Run Data Batch 7	P2 Average CPL	IEEE single precision float
17356	17357	Trans Run Data Batch 7	P3 Average CPL	IEEE single precision float
17358	17359	Trans Run Data Batch 7	P4 Average CPL	IEEE single precision float
17360	17361	Trans Run Data Batch 7	P5 Average CPL	IEEE single precision float
17362	17363	Trans Run Data Batch 7	P6 Average CPL	IEEE single precision float
17364	17365	Trans Run Data Batch 7	P1 CCF	IEEE single precision float
17366	17367	Trans Run Data Batch 7	P2 CCF	IEEE single precision float
17368	17369	Trans Run Data Batch 7	P3 CCF	IEEE single precision float
17370	17371	Trans Run Data Batch 7	P4 CCF	IEEE single precision float
17372	17373	Trans Run Data Batch 7	P5 CCF	IEEE single precision float
17374	17375	Trans Run Data Batch 7	P6 CCF	IEEE single precision float
17376	17377	Trans Run Data Batch 7	P1 Average Reference Density	IEEE single precision float
17378	17379	Trans Run Data Batch 7	P2 Average Reference Density	IEEE single precision float
17380	17381	Trans Run Data Batch 7	P3 Average Reference Density	IEEE single precision float
17382	17383	Trans Run Data Batch 7	P4 Average Reference Density	IEEE single precision float
17384	17385	Trans Run Data Batch 7	P5 Average Reference Density	IEEE single precision float
17386	17387	Trans Run Data Batch 7	P6 Average Reference Density	IEEE single precision float
17388	17389	Trans Run Data Batch 7	P1 Average Relative Density	IEEE single precision float
17390	17391	Trans Run Data Batch 7	P2 Average Relative Density	IEEE single precision float
17392	17393	Trans Run Data Batch 7	P3 Average Relative Density	IEEE single precision float
17394	17395	Trans Run Data Batch 7	P4 Average Relative Density	IEEE single precision float
17396	17397	Trans Run Data Batch 7	P5 Average Relative Density	IEEE single precision float
17398	17399	Trans Run Data Batch 7	P6 Average Relative Density	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
17400	17401	Trans Run Data Batch 7	P1 Average API @ Ref Temp	IEEE single precision float
17402	17403	Trans Run Data Batch 7	P2 Average API @ Ref Temp	IEEE single precision float
17404	17405	Trans Run Data Batch 7	P3 Average API @ Ref Temp	IEEE single precision float
17406	17407	Trans Run Data Batch 7	P4 Average API @ Ref Temp	IEEE single precision float
17408	17409	Trans Run Data Batch 7	P5 Average API @ Ref Temp	IEEE single precision float
17410	17411	Trans Run Data Batch 7	P6 Average API @ Ref Temp	IEEE single precision float
17412	17413	Trans Run Data Batch 7	P1 Average Vapor Pressure	IEEE single precision float
17414	17415	Trans Run Data Batch 7	P2 Average Vapor Pressure	IEEE single precision float
17416	17417	Trans Run Data Batch 7	P3 Average Vapor Pressure	IEEE single precision float
17418	17419	Trans Run Data Batch 7	P4 Average Vapor Pressure	IEEE single precision float
17420	17421	Trans Run Data Batch 7	P5 Average Vapor Pressure	IEEE single precision float
17422	17423	Trans Run Data Batch 7	P6 Average Vapor Pressure	IEEE single precision float
17424	17425	Trans Run Data Batch 7	P1 Average CTPL	IEEE single precision float
17426	17427	Trans Run Data Batch 7	P2 Average CTPL	IEEE single precision float
17428	17429	Trans Run Data Batch 7	P3 Average CTPL	IEEE single precision float
17430	17431	Trans Run Data Batch 7	P4 Average CTPL	IEEE single precision float
17432	17433	Trans Run Data Batch 7	P5 Average CTPL	IEEE single precision float
17434	17435	Trans Run Data Batch 7	P6 Average CTPL	IEEE single precision float
17600	17603	Trans Run Data Batch 7	Batch P1 Total Pulses	IEEE double precision float
17604	17607	Trans Run Data Batch 7	Batch P2 Total Pulses	IEEE double precision float
17608	17611	Trans Run Data Batch 7	Batch P3 Total Pulses	IEEE double precision float
17612	17615	Trans Run Data Batch 7	Batch P4 Total Pulses	IEEE double precision float
17616	17619	Trans Run Data Batch 7	Batch P5 Total Pulses	IEEE double precision float
17620	17623	Trans Run Data Batch 7	Batch P6 Total Pulses	IEEE double precision float
17624	17627	Trans Run Data Batch 7	Batch P1 Indicated Volume (IV)	IEEE double precision float
17628	17631	Trans Run Data Batch 7	Batch P2 Indicated Volume (IV)	IEEE double precision float
17632	17635	Trans Run Data Batch 7	Batch P3 Indicated Volume (IV)	IEEE double precision float
17636	17639	Trans Run Data Batch 7	Batch P4 Indicated Volume (IV)	IEEE double precision float
17640	17643	Trans Run Data Batch 7	Batch P5 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
17644	17647	Trans Run Data Batch 7	Batch P6 Indicated Volume (IV)	IEEE double precision float
17648	17651	Trans Run Data Batch 7	Batch P1 Gross Volume (GV)	IEEE double precision float
17652	17655	Trans Run Data Batch 7	Batch P2 Gross Volume (GV)	IEEE double precision float
17656	17659	Trans Run Data Batch 7	Batch P3 Gross Volume (GV)	IEEE double precision float
17660	17663	Trans Run Data Batch 7	Batch P4 Gross Volume (GV)	IEEE double precision float
17664	17667	Trans Run Data Batch 7	Batch P5 Gross Volume (GV)	IEEE double precision float
17668	17671	Trans Run Data Batch 7	Batch P6 Gross Volume (GV)	IEEE double precision float
17672	17675	Trans Run Data Batch 7	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
17676	17679	Trans Run Data Batch 7	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
17680	17683	Trans Run Data Batch 7	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
17684	17687	Trans Run Data Batch 7	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
17688	17691	Trans Run Data Batch 7	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
17692	17695	Trans Run Data Batch 7	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
17696	17699	Trans Run Data Batch 7	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17700	17703	Trans Run Data Batch 7	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17704	17707	Trans Run Data Batch 7	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17708	17711	Trans Run Data Batch 7	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17712	17715	Trans Run Data Batch 7	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17716	17719	Trans Run Data Batch 7	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
17720	17723	Trans Run Data Batch 7	Batch P1 Mass Total	IEEE double precision float
17724	17727	Trans Run Data Batch 7	Batch P2 Mass Total	IEEE double precision float
17728	17731	Trans Run Data Batch 7	Batch P3 Mass Total	IEEE double precision float
17732	17735	Trans Run Data Batch 7	Batch P4 Mass Total	IEEE double precision float
17736	17739	Trans Run Data Batch 7	Batch P5 Mass Total	IEEE double precision float



## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
17740	17743	Trans Run Data Batch 7	Batch P6 Mass Total	IEEE double precision float
17920	17927	Trans Run Data Batch 8	1st Alarm in Batch	Text (char[16])
17928	17935	Trans Run Data Batch 8	2nd Alarm in Batch	Text (char[16])
17936	17943	Trans Run Data Batch 8	3rd Alarm in Batch	Text (char[16])
17944	17951	Trans Run Data Batch 8	4th Alarm in Batch	Text (char[16])
17952	17959	Trans Run Data Batch 8	5th Alarm in Batch	Text (char[16])
17960	17967	Trans Run Data Batch 8	6th Alarm in Batch	Text (char[16])
17968	17975	Trans Run Data Batch 8	7th Alarm in Batch	Text (char[16])
17976	17983	Trans Run Data Batch 8	8th Alarm in Batch	Text (char[16])
17984	17991	Trans Run Data Batch 8	9th Alarm in Batch	Text (char[16])
17992	17999	Trans Run Data Batch 8	10th Alarm in Batch	Text (char[16])
18048	18049	Trans Run Data Batch 8	Average Flow Rate	IEEE single precision float
18050	18051	Trans Run Data Batch 8	Load Average Meter Factor	IEEE single precision float
18052	18053	Trans Run Data Batch 8	Load Average Temperature	IEEE single precision float
18054	18055	Trans Run Data Batch 8	Load Average Density	IEEE single precision float
18056	18057	Trans Run Data Batch 8	Load Average Pressure	IEEE single precision float
18058	18059	Trans Run Data Batch 8	Average CTL	IEEE single precision float
18060	18061	Trans Run Data Batch 8	Average CPL	IEEE single precision float
18062	18063	Trans Run Data Batch 8	Contaminant Percentage	IEEE single precision float
18064	18065	Trans Run Data Batch 8	Last Density Sample	IEEE single precision float
18112	18115	Trans Run Data Batch 8	Total Pulses	IEEE double precision float
18116	18119	Trans Run Data Batch 8	Indicated Volume (IV)	IEEE double precision float
18120	18123	Trans Run Data Batch 8	Gross Volume (GV)	IEEE double precision float
18124	18127	Trans Run Data Batch 8	Gross Volume @ Std Temp (GST)	IEEE double precision float
18128	18131	Trans Run Data Batch 8	Gross @ Std Temp & Press (GSV)	IEEE double precision float
18132	18135	Trans Run Data Batch 8	Mass Total	IEEE double precision float
18136	18139	Trans Run Data Batch 8	Additive 1 Volume	IEEE double precision float
18140	18143	Trans Run Data Batch 8	Additive 2 Volume	IEEE double precision float
18144	18147	Trans Run Data Batch 8	Additive 3 Volume	IEEE double precision float
18148	18151	Trans Run Data Batch 8	Additive 4 Volume	IEEE double precision float
18152	18155	Trans Run Data Batch 8	Additive 5 Volume	IEEE double precision float
18156	18159	Trans Run Data Batch 8	Additive 6 Volume	IEEE double precision float
18160	18163	Trans Run Data Batch 8	Additive 7 Volume	IEEE double precision float
18164	18167	Trans Run Data Batch 8	Additive 8 Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
18168	18171	Trans Run Data Batch 8	Additive 9 Volume	IEEE double precision float
18172	18175	Trans Run Data Batch 8	Additive 10 Volume	IEEE double precision float
18176	18179	Trans Run Data Batch 8	Additive 11 Volume	IEEE double precision float
18180	18183	Trans Run Data Batch 8	Additive 12 Volume	IEEE double precision float
18184	18187	Trans Run Data Batch 8	Additive 13 Volume	IEEE double precision float
18188	18191	Trans Run Data Batch 8	Additive 14 Volume	IEEE double precision float
18192	18195	Trans Run Data Batch 8	Additive 15 Volume	IEEE double precision float
18196	18199	Trans Run Data Batch 8	Additive 16 Volume	IEEE double precision float
18200	18203	Trans Run Data Batch 8	Additive 17 Volume	IEEE double precision float
18204	18207	Trans Run Data Batch 8	Additive 18 Volume	IEEE double precision float
18208	18211	Trans Run Data Batch 8	Additive 19 Volume	IEEE double precision float
18212	18215	Trans Run Data Batch 8	Additive 20 Volume	IEEE double precision float
18216	18219	Trans Run Data Batch 8	Additive 21 Volume	IEEE double precision float
18220	18223	Trans Run Data Batch 8	Additive 22 Volume	IEEE double precision float
18224	18227	Trans Run Data Batch 8	Additive 23 Volume	IEEE double precision float
18228	18231	Trans Run Data Batch 8	Additive 24 Volume	IEEE double precision float
18232	18235	Trans Run Data Batch 8	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
18236	18239	Trans Run Data Batch 8	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
18240	18243	Trans Run Data Batch 8	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
18244	18247	Trans Run Data Batch 8	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
18248	18251	Trans Run Data Batch 8	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
18252	18255	Trans Run Data Batch 8	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
18256	18259	Trans Run Data Batch 8	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
18260	18263	Trans Run Data Batch 8	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
18264	18267	Trans Run Data Batch 8	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
18268	18271	Trans Run Data Batch 8	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
18272	18275	Trans Run Data Batch 8	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
18276	18279	Trans Run Data Batch 8	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
18280	18283	Trans Run Data Batch 8	Flow Controlled Additive #1 Mass	IEEE double precision float
18284	18287	Trans Run Data Batch 8	Flow Controlled Additive #2 Mass	IEEE double precision float
18288	18291	Trans Run Data Batch 8	Flow Controlled Additive #3 Mass	IEEE double precision float
18292	18295	Trans Run Data Batch 8	Flow Controlled Additive #4 Mass	IEEE double precision float
18296	18299	Trans Run Data Batch 8	Straight Arm with VRS Recovered Mass	IEEE double precision float
18300	18303	Trans Run Data Batch 8	Straight Arm with VRS Net Mass	IEEE double precision float
18432		Trans Run Data Batch 8	Product Number	unsigned char
18433		Trans Run Data Batch 8	Recipe Number ("1" based; 1 = recipe 1)	unsigned char
18434		Trans Run Data Batch 8	HM Class Product	unsigned char
18435		Trans Run Data Batch 8	Batch Number	unsigned char
18436		Trans Run Data Batch 8	Prove Trip Accepted	unsigned char
18437		Trans Run Data Batch 8	Batch Load Arm	unsigned char
18496	18497	Trans Run Data Batch 8	Additive Mask	unsigned long integer
18816	18817	Trans Run Data Batch 8	P1 Average Flow Rate	IEEE single precision float
18818	18819	Trans Run Data Batch 8	P2 Average Flow Rate	IEEE single precision float
18820	18821	Trans Run Data Batch 8	P3 Average Flow Rate	IEEE single precision float
18822	18823	Trans Run Data Batch 8	P4 Average Flow Rate	IEEE single precision float
18824	18825	Trans Run Data Batch 8	P5 Average Flow Rate	IEEE single precision float
18826	18827	Trans Run Data Batch 8	P6 Average Flow Rate	IEEE single precision float
18828	18829	Trans Run Data Batch 8	P1 Load Average Meter Factor	IEEE single precision float
18830	18831	Trans Run Data Batch 8	P2 Load Average Meter Factor	IEEE single precision float
18832	18833	Trans Run Data Batch 8	P3 Load Average Meter Factor	IEEE single precision float
18834	18835	Trans Run Data Batch 8	P4 Load Average Meter Factor	IEEE single precision float
18836	18837	Trans Run Data Batch 8	P5 Load Average Meter Factor	IEEE single precision float
18838	18839	Trans Run Data Batch 8	P6 Load Average Meter Factor	IEEE single precision float
18840	18841	Trans Run Data Batch 8	P1 Load Average Temperature	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
18842	18843	Trans Run Data Batch 8	P2 Load Average Temperature	IEEE single precision float
18844	18845	Trans Run Data Batch 8	P3 Load Average Temperature	IEEE single precision float
18846	18847	Trans Run Data Batch 8	P4 Load Average Temperature	IEEE single precision float
18848	18849	Trans Run Data Batch 8	P5 Load Average Temperature	IEEE single precision float
18850	18851	Trans Run Data Batch 8	P6 Load Average Temperature	IEEE single precision float
18852	18853	Trans Run Data Batch 8	P1 Load Average Density	IEEE single precision float
18854	18855	Trans Run Data Batch 8	P2 Load Average Density	IEEE single precision float
18856	18857	Trans Run Data Batch 8	P3 Load Average Density	IEEE single precision float
18858	18859	Trans Run Data Batch 8	P4 Load Average Density	IEEE single precision float
18860	18861	Trans Run Data Batch 8	P5 Load Average Density	IEEE single precision float
18862	18863	Trans Run Data Batch 8	P6 Load Average Density	IEEE single precision float
18864	18865	Trans Run Data Batch 8	P1 Load Average Pressure	IEEE single precision float
18866	18867	Trans Run Data Batch 8	P2 Load Average Pressure	IEEE single precision float
18868	18869	Trans Run Data Batch 8	P3 Load Average Pressure	IEEE single precision float
18870	18871	Trans Run Data Batch 8	P4 Load Average Pressure	IEEE single precision float
18872	18873	Trans Run Data Batch 8	P5 Load Average Pressure	IEEE single precision float
18874	18875	Trans Run Data Batch 8	P6 Load Average Pressure	IEEE single precision float
18876	18877	Trans Run Data Batch 8	P1 Average CTL	IEEE single precision float
18878	18879	Trans Run Data Batch 8	P2 Average CTL	IEEE single precision float
18880	18881	Trans Run Data Batch 8	P3 Average CTL	IEEE single precision float
18882	18883	Trans Run Data Batch 8	P4 Average CTL	IEEE single precision float
18884	18885	Trans Run Data Batch 8	P5 Average CTL	IEEE single precision float
18886	18887	Trans Run Data Batch 8	P6 Average CTL	IEEE single precision float
18888	18889	Trans Run Data Batch 8	P1 Average CPL	IEEE single precision float
18890	18891	Trans Run Data Batch 8	P2 Average CPL	IEEE single precision float
18892	18893	Trans Run Data Batch 8	P3 Average CPL	IEEE single precision float
18894	18895	Trans Run Data Batch 8	P4 Average CPL	IEEE single precision float
18896	18897	Trans Run Data Batch 8	P5 Average CPL	IEEE single precision float
18898	18899	Trans Run Data Batch 8	P6 Average CPL	IEEE single precision float
18900	18901	Trans Run Data Batch 8	P1 CCF	IEEE single precision float
18902	18903	Trans Run Data Batch 8	P2 CCF	IEEE single precision float
18904	18905	Trans Run Data Batch 8	P3 CCF	IEEE single precision float
18906	18907	Trans Run Data Batch 8	P4 CCF	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
18908	18909	Trans Run Data Batch 8	P5 CCF	IEEE single precision float
18910	18911	Trans Run Data Batch 8	P6 CCF	IEEE single precision float
18912	18913	Trans Run Data Batch 8	P1 Average Reference Density	IEEE single precision float
18914	18915	Trans Run Data Batch 8	P2 Average Reference Density	IEEE single precision float
18916	18917	Trans Run Data Batch 8	P3 Average Reference Density	IEEE single precision float
18918	18919	Trans Run Data Batch 8	P4 Average Reference Density	IEEE single precision float
18920	18921	Trans Run Data Batch 8	P5 Average Reference Density	IEEE single precision float
18922	18923	Trans Run Data Batch 8	P6 Average Reference Density	IEEE single precision float
18924	18925	Trans Run Data Batch 8	P1 Average Relative Density	IEEE single precision float
18926	18927	Trans Run Data Batch 8	P2 Average Relative Density	IEEE single precision float
18928	18929	Trans Run Data Batch 8	P3 Average Relative Density	IEEE single precision float
18930	18931	Trans Run Data Batch 8	P4 Average Relative Density	IEEE single precision float
18932	18933	Trans Run Data Batch 8	P5 Average Relative Density	IEEE single precision float
18934	18935	Trans Run Data Batch 8	P6 Average Relative Density	IEEE single precision float
18936	18937	Trans Run Data Batch 8	P1 Average API @ Ref Temp	IEEE single precision float
18938	18939	Trans Run Data Batch 8	P2 Average API @ Ref Temp	IEEE single precision float
18940	18941	Trans Run Data Batch 8	P3 Average API @ Ref Temp	IEEE single precision float
18942	18943	Trans Run Data Batch 8	P4 Average API @ Ref Temp	IEEE single precision float
18944	18945	Trans Run Data Batch 8	P5 Average API @ Ref Temp	IEEE single precision float
18946	18947	Trans Run Data Batch 8	P6 Average API @ Ref Temp	IEEE single precision float
18948	18949	Trans Run Data Batch 8	P1 Average Vapor Pressure	IEEE single precision float
18950	18951	Trans Run Data Batch 8	P2 Average Vapor Pressure	IEEE single precision float
18952	18953	Trans Run Data Batch 8	P3 Average Vapor Pressure	IEEE single precision float
18954	18955	Trans Run Data Batch 8	P4 Average Vapor Pressure	IEEE single precision float
18956	18957	Trans Run Data Batch 8	P5 Average Vapor Pressure	IEEE single precision float
18958	18959	Trans Run Data Batch 8	P6 Average Vapor Pressure	IEEE single precision float
18960	18961	Trans Run Data Batch 8	P1 Average CTPL	IEEE single precision float
18962	18963	Trans Run Data Batch 8	P2 Average CTPL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
18964	18965	Trans Run Data Batch 8	P3 Average CTPL	IEEE single precision float
18966	18967	Trans Run Data Batch 8	P4 Average CTPL	IEEE single precision float
18968	18969	Trans Run Data Batch 8	P5 Average CTPL	IEEE single precision float
18970	18971	Trans Run Data Batch 8	P6 Average CTPL	IEEE single precision float
19136	19139	Trans Run Data Batch 8	Batch P1 Total Pulses	IEEE double precision float
19140	19143	Trans Run Data Batch 8	Batch P2 Total Pulses	IEEE double precision float
19144	19147	Trans Run Data Batch 8	Batch P3 Total Pulses	IEEE double precision float
19148	19151	Trans Run Data Batch 8	Batch P4 Total Pulses	IEEE double precision float
19152	19155	Trans Run Data Batch 8	Batch P5 Total Pulses	IEEE double precision float
19156	19159	Trans Run Data Batch 8	Batch P6 Total Pulses	IEEE double precision float
19160	19163	Trans Run Data Batch 8	Batch P1 Indicated Volume (IV)	IEEE double precision float
19164	19167	Trans Run Data Batch 8	Batch P2 Indicated Volume (IV)	IEEE double precision float
19168	19171	Trans Run Data Batch 8	Batch P3 Indicated Volume (IV)	IEEE double precision float
19172	19175	Trans Run Data Batch 8	Batch P4 Indicated Volume (IV)	IEEE double precision float
19176	19179	Trans Run Data Batch 8	Batch P5 Indicated Volume (IV)	IEEE double precision float
19180	19183	Trans Run Data Batch 8	Batch P6 Indicated Volume (IV)	IEEE double precision float
19184	19187	Trans Run Data Batch 8	Batch P1 Gross Volume (GV)	IEEE double precision float
19188	19191	Trans Run Data Batch 8	Batch P2 Gross Volume (GV)	IEEE double precision float
19192	19195	Trans Run Data Batch 8	Batch P3 Gross Volume (GV)	IEEE double precision float
19196	19199	Trans Run Data Batch 8	Batch P4 Gross Volume (GV)	IEEE double precision float
19200	19203	Trans Run Data Batch 8	Batch P5 Gross Volume (GV)	IEEE double precision float
19204	19207	Trans Run Data Batch 8	Batch P6 Gross Volume (GV)	IEEE double precision float
19208	19211	Trans Run Data Batch 8	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
19212	19215	Trans Run Data Batch 8	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
19216	19219	Trans Run Data Batch 8	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
19220	19223	Trans Run Data Batch 8	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
19224	19227	Trans Run Data Batch 8	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
19228	19231	Trans Run Data Batch 8	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
19232	19235	Trans Run Data Batch 8	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19236	19239	Trans Run Data Batch 8	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19240	19243	Trans Run Data Batch 8	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19244	19247	Trans Run Data Batch 8	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19248	19251	Trans Run Data Batch 8	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19252	19255	Trans Run Data Batch 8	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
19256	19259	Trans Run Data Batch 8	Batch P1 Mass Total	IEEE double precision float
19260	19263	Trans Run Data Batch 8	Batch P2 Mass Total	IEEE double precision float
19264	19267	Trans Run Data Batch 8	Batch P3 Mass Total	IEEE double precision float
19268	19271	Trans Run Data Batch 8	Batch P4 Mass Total	IEEE double precision float
19272	19275	Trans Run Data Batch 8	Batch P5 Mass Total	IEEE double precision float
19276	19279	Trans Run Data Batch 8	Batch P6 Mass Total	IEEE double precision float
19456	19463	Trans Run Data Batch 9	1st Alarm in Batch	Text (char[16])
19464	19471	Trans Run Data Batch 9	2nd Alarm in Batch	Text (char[16])
19472	19479	Trans Run Data Batch 9	3rd Alarm in Batch	Text (char[16])
19480	19487	Trans Run Data Batch 9	4th Alarm in Batch	Text (char[16])
19488	19495	Trans Run Data Batch 9	5th Alarm in Batch	Text (char[16])
19496	19503	Trans Run Data Batch 9	6th Alarm in Batch	Text (char[16])
19504	19511	Trans Run Data Batch 9	7th Alarm in Batch	Text (char[16])
19512	19519	Trans Run Data Batch 9	8th Alarm in Batch	Text (char[16])
19520	19527	Trans Run Data Batch 9	9th Alarm in Batch	Text (char[16])
19528	19535	Trans Run Data Batch 9	10th Alarm in Batch	Text (char[16])
19584	19585	Trans Run Data Batch 9	Average Flow Rate	IEEE single precision float
19586	19587	Trans Run Data Batch 9	Load Average Meter Factor	IEEE single precision float
19588	19589	Trans Run Data Batch 9	Load Average Temperature	IEEE single precision float
19590	19591	Trans Run Data Batch 9	Load Average Density	IEEE single precision float
19592	19593	Trans Run Data Batch 9	Load Average Pressure	IEEE single precision float
19594	19595	Trans Run Data Batch 9	Average CTL	IEEE single precision float
19596	19597	Trans Run Data Batch 9	Average CPL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
19598	19599	Trans Run Data Batch 9	Contaminant Percentage	IEEE single precision float
19600	19601	Trans Run Data Batch 9	Last Density Sample	IEEE single precision float
19648	19651	Trans Run Data Batch 9	Total Pulses	IEEE double precision float
19652	19655	Trans Run Data Batch 9	Indicated Volume (IV)	IEEE double precision float
19656	19659	Trans Run Data Batch 9	Gross Volume (GV)	IEEE double precision float
19660	19663	Trans Run Data Batch 9	Gross Volume @ Std Temp (GST)	IEEE double precision float
19664	19667	Trans Run Data Batch 9	Gross @ Std Temp & Press (GSV)	IEEE double precision float
19668	19671	Trans Run Data Batch 9	Mass Total	IEEE double precision float
19672	19675	Trans Run Data Batch 9	Additive 1 Volume	IEEE double precision float
19676	19679	Trans Run Data Batch 9	Additive 2 Volume	IEEE double precision float
19680	19683	Trans Run Data Batch 9	Additive 3 Volume	IEEE double precision float
19684	19687	Trans Run Data Batch 9	Additive 4 Volume	IEEE double precision float
19688	19691	Trans Run Data Batch 9	Additive 5 Volume	IEEE double precision float
19692	19695	Trans Run Data Batch 9	Additive 6 Volume	IEEE double precision float
19696	19699	Trans Run Data Batch 9	Additive 7 Volume	IEEE double precision float
19700	19703	Trans Run Data Batch 9	Additive 8 Volume	IEEE double precision float
19704	19707	Trans Run Data Batch 9	Additive 9 Volume	IEEE double precision float
19708	19711	Trans Run Data Batch 9	Additive 10 Volume	IEEE double precision float
19712	19715	Trans Run Data Batch 9	Additive 11 Volume	IEEE double precision float
19716	19719	Trans Run Data Batch 9	Additive 12 Volume	IEEE double precision float
19720	19723	Trans Run Data Batch 9	Additive 13 Volume	IEEE double precision float
19724	19727	Trans Run Data Batch 9	Additive 14 Volume	IEEE double precision float
19728	19731	Trans Run Data Batch 9	Additive 15 Volume	IEEE double precision float
19732	19735	Trans Run Data Batch 9	Additive 16 Volume	IEEE double precision float
19736	19739	Trans Run Data Batch 9	Additive 17 Volume	IEEE double precision float
19740	19743	Trans Run Data Batch 9	Additive 18 Volume	IEEE double precision float
19744	19747	Trans Run Data Batch 9	Additive 19 Volume	IEEE double precision float
19748	19751	Trans Run Data Batch 9	Additive 20 Volume	IEEE double precision float
19752	19755	Trans Run Data Batch 9	Additive 21 Volume	IEEE double precision float
19756	19759	Trans Run Data Batch 9	Additive 22 Volume	IEEE double precision float
19760	19763	Trans Run Data Batch 9	Additive 23 Volume	IEEE double precision float
19764	19767	Trans Run Data Batch 9	Additive 24 Volume	IEEE double precision float
19768	19771	Trans Run Data Batch 9	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
19772	19775	Trans Run Data Batch 9	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
19776	19779	Trans Run Data Batch 9	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
19780	19783	Trans Run Data Batch 9	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
19784	19787	Trans Run Data Batch 9	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
19788	19791	Trans Run Data Batch 9	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
19792	19795	Trans Run Data Batch 9	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
19796	19799	Trans Run Data Batch 9	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
19800	19803	Trans Run Data Batch 9	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
19804	19807	Trans Run Data Batch 9	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
19808	19811	Trans Run Data Batch 9	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
19812	19815	Trans Run Data Batch 9	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float
19816	19819	Trans Run Data Batch 9	Flow Controlled Additive #1 Mass	IEEE double precision float
19820	19823	Trans Run Data Batch 9	Flow Controlled Additive #2 Mass	IEEE double precision float
19824	19827	Trans Run Data Batch 9	Flow Controlled Additive #3 Mass	IEEE double precision float
19828	19831	Trans Run Data Batch 9	Flow Controlled Additive #4 Mass	IEEE double precision float
19832	19835	Trans Run Data Batch 9	Straight Arm with VRS Recovered Mass	IEEE double precision float
19836	19839	Trans Run Data Batch 9	Straight Arm with VRS Net Mass	IEEE double precision float
19968		Trans Run Data Batch 9	Product Number	unsigned char
19969		Trans Run Data Batch 9	Recipe Number ("1" based; 1 = recipe 1)	unsigned char
19970		Trans Run Data Batch 9	HM Class Product	unsigned char
19971		Trans Run Data Batch 9	Batch Number	unsigned char
19972		Trans Run Data Batch 9	Prove Trip Accepted	unsigned char
19973		Trans Run Data Batch 9	Batch Load Arm	unsigned char
20032	20033	Trans Run Data Batch 9	Additive Mask	unsigned long integer

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
20352	20353	Trans Run Data Batch 9	P1 Average Flow Rate	IEEE single precision float
20354	20355	Trans Run Data Batch 9	P2 Average Flow Rate	IEEE single precision float
20356	20357	Trans Run Data Batch 9	P3 Average Flow Rate	IEEE single precision float
20358	20359	Trans Run Data Batch 9	P4 Average Flow Rate	IEEE single precision float
20360	20361	Trans Run Data Batch 9	P5 Average Flow Rate	IEEE single precision float
20362	20363	Trans Run Data Batch 9	P6 Average Flow Rate	IEEE single precision float
20364	20365	Trans Run Data Batch 9	P1 Load Average Meter Factor	IEEE single precision float
20366	20367	Trans Run Data Batch 9	P2 Load Average Meter Factor	IEEE single precision float
20368	20369	Trans Run Data Batch 9	P3 Load Average Meter Factor	IEEE single precision float
20370	20371	Trans Run Data Batch 9	P4 Load Average Meter Factor	IEEE single precision float
20372	20373	Trans Run Data Batch 9	P5 Load Average Meter Factor	IEEE single precision float
20374	20375	Trans Run Data Batch 9	P6 Load Average Meter Factor	IEEE single precision float
20376	20377	Trans Run Data Batch 9	P1 Load Average Temperature	IEEE single precision float
20378	20379	Trans Run Data Batch 9	P2 Load Average Temperature	IEEE single precision float
20380	20381	Trans Run Data Batch 9	P3 Load Average Temperature	IEEE single precision float
20382	20383	Trans Run Data Batch 9	P4 Load Average Temperature	IEEE single precision float
20384	20385	Trans Run Data Batch 9	P5 Load Average Temperature	IEEE single precision float
20386	20387	Trans Run Data Batch 9	P6 Load Average Temperature	IEEE single precision float
20388	20389	Trans Run Data Batch 9	P1 Load Average Density	IEEE single precision float
20390	20391	Trans Run Data Batch 9	P2 Load Average Density	IEEE single precision float
20392	20393	Trans Run Data Batch 9	P3 Load Average Density	IEEE single precision float
20394	20395	Trans Run Data Batch 9	P4 Load Average Density	IEEE single precision float
20396	20397	Trans Run Data Batch 9	P5 Load Average Density	IEEE single precision float
20398	20399	Trans Run Data Batch 9	P6 Load Average Density	IEEE single precision float
20400	20401	Trans Run Data Batch 9	P1 Load Average Pressure	IEEE single precision float
20402	20403	Trans Run Data Batch 9	P2 Load Average Pressure	IEEE single precision float
20404	20405	Trans Run Data Batch 9	P3 Load Average Pressure	IEEE single precision float
20406	20407	Trans Run Data Batch 9	P4 Load Average Pressure	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
20408	20409	Trans Run Data Batch 9	P5 Load Average Pressure	IEEE single precision float
20410	20411	Trans Run Data Batch 9	P6 Load Average Pressure	IEEE single precision float
20412	20413	Trans Run Data Batch 9	P1 Average CTL	IEEE single precision float
20414	20415	Trans Run Data Batch 9	P2 Average CTL	IEEE single precision float
20416	20417	Trans Run Data Batch 9	P3 Average CTL	IEEE single precision float
20418	20419	Trans Run Data Batch 9	P4 Average CTL	IEEE single precision float
20420	20421	Trans Run Data Batch 9	P5 Average CTL	IEEE single precision float
20422	20423	Trans Run Data Batch 9	P6 Average CTL	IEEE single precision float
20424	20425	Trans Run Data Batch 9	P1 Average CPL	IEEE single precision float
20426	20427	Trans Run Data Batch 9	P2 Average CPL	IEEE single precision float
20428	20429	Trans Run Data Batch 9	P3 Average CPL	IEEE single precision float
20430	20431	Trans Run Data Batch 9	P4 Average CPL	IEEE single precision float
20432	20433	Trans Run Data Batch 9	P5 Average CPL	IEEE single precision float
20434	20435	Trans Run Data Batch 9	P6 Average CPL	IEEE single precision float
20436	20437	Trans Run Data Batch 9	P1 CCF	IEEE single precision float
20438	20439	Trans Run Data Batch 9	P2 CCF	IEEE single precision float
20440	20441	Trans Run Data Batch 9	P3 CCF	IEEE single precision float
20442	20443	Trans Run Data Batch 9	P4 CCF	IEEE single precision float
20444	20445	Trans Run Data Batch 9	P5 CCF	IEEE single precision float
20446	20447	Trans Run Data Batch 9	P6 CCF	IEEE single precision float
20448	20449	Trans Run Data Batch 9	P1 Average Reference Density	IEEE single precision float
20450	20451	Trans Run Data Batch 9	P2 Average Reference Density	IEEE single precision float
20452	20453	Trans Run Data Batch 9	P3 Average Reference Density	IEEE single precision float
20454	20455	Trans Run Data Batch 9	P4 Average Reference Density	IEEE single precision float
20456	20457	Trans Run Data Batch 9	P5 Average Reference Density	IEEE single precision float
20458	20459	Trans Run Data Batch 9	P6 Average Reference Density	IEEE single precision float
20460	20461	Trans Run Data Batch 9	P1 Average Relative Density	IEEE single precision float
20462	20463	Trans Run Data Batch 9	P2 Average Relative Density	IEEE single precision float
20464	20465	Trans Run Data Batch 9	P3 Average Relative Density	IEEE single precision float
20466	20467	Trans Run Data Batch 9	P4 Average Relative Density	IEEE single precision float
20468	20469	Trans Run Data Batch 9	P5 Average Relative Density	IEEE single precision float
20470	20471	Trans Run Data Batch 9	P6 Average Relative Density	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
20472	20473	Trans Run Data Batch 9	P1 Average API @ Ref Temp	IEEE single precision float
20474	20475	Trans Run Data Batch 9	P2 Average API @ Ref Temp	IEEE single precision float
20476	20477	Trans Run Data Batch 9	P3 Average API @ Ref Temp	IEEE single precision float
20478	20479	Trans Run Data Batch 9	P4 Average API @ Ref Temp	IEEE single precision float
20480	20481	Trans Run Data Batch 9	P5 Average API @ Ref Temp	IEEE single precision float
20482	20483	Trans Run Data Batch 9	P6 Average API @ Ref Temp	IEEE single precision float
20484	20485	Trans Run Data Batch 9	P1 Average Vapor Pressure	IEEE single precision float
20486	20487	Trans Run Data Batch 9	P2 Average Vapor Pressure	IEEE single precision float
20488	20489	Trans Run Data Batch 9	P3 Average Vapor Pressure	IEEE single precision float
20490	20491	Trans Run Data Batch 9	P4 Average Vapor Pressure	IEEE single precision float
20492	20493	Trans Run Data Batch 9	P5 Average Vapor Pressure	IEEE single precision float
20494	20495	Trans Run Data Batch 9	P6 Average Vapor Pressure	IEEE single precision float
20496	20497	Trans Run Data Batch 9	P1 Average CTPL	IEEE single precision float
20498	20499	Trans Run Data Batch 9	P2 Average CTPL	IEEE single precision float
20500	20501	Trans Run Data Batch 9	P3 Average CTPL	IEEE single precision float
20502	20503	Trans Run Data Batch 9	P4 Average CTPL	IEEE single precision float
20504	20505	Trans Run Data Batch 9	P5 Average CTPL	IEEE single precision float
20506	20507	Trans Run Data Batch 9	P6 Average CTPL	IEEE single precision float
20672	20675	Trans Run Data Batch 9	Batch P1 Total Pulses	IEEE double precision float
20676	20679	Trans Run Data Batch 9	Batch P2 Total Pulses	IEEE double precision float
20680	20683	Trans Run Data Batch 9	Batch P3 Total Pulses	IEEE double precision float
20684	20687	Trans Run Data Batch 9	Batch P4 Total Pulses	IEEE double precision float
20688	20691	Trans Run Data Batch 9	Batch P5 Total Pulses	IEEE double precision float
20692	20695	Trans Run Data Batch 9	Batch P6 Total Pulses	IEEE double precision float
20696	20699	Trans Run Data Batch 9	Batch P1 Indicated Volume (IV)	IEEE double precision float
20700	20703	Trans Run Data Batch 9	Batch P2 Indicated Volume (IV)	IEEE double precision float
20704	20707	Trans Run Data Batch 9	Batch P3 Indicated Volume (IV)	IEEE double precision float
20708	20711	Trans Run Data Batch 9	Batch P4 Indicated Volume (IV)	IEEE double precision float
20712	20715	Trans Run Data Batch 9	Batch P5 Indicated Volume (IV)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
20716	20719	Trans Run Data Batch 9	Batch P6 Indicated Volume (IV)	IEEE double precision float
20720	20723	Trans Run Data Batch 9	Batch P1 Gross Volume (GV)	IEEE double precision float
20724	20727	Trans Run Data Batch 9	Batch P2 Gross Volume (GV)	IEEE double precision float
20728	20731	Trans Run Data Batch 9	Batch P3 Gross Volume (GV)	IEEE double precision float
20732	20735	Trans Run Data Batch 9	Batch P4 Gross Volume (GV)	IEEE double precision float
20736	20739	Trans Run Data Batch 9	Batch P5 Gross Volume (GV)	IEEE double precision float
20740	20743	Trans Run Data Batch 9	Batch P6 Gross Volume (GV)	IEEE double precision float
20744	20747	Trans Run Data Batch 9	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
20748	20751	Trans Run Data Batch 9	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
20752	20755	Trans Run Data Batch 9	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
20756	20759	Trans Run Data Batch 9	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float
20760	20763	Trans Run Data Batch 9	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
20764	20767	Trans Run Data Batch 9	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
20768	20771	Trans Run Data Batch 9	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20772	20775	Trans Run Data Batch 9	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20776	20779	Trans Run Data Batch 9	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20780	20783	Trans Run Data Batch 9	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20784	20787	Trans Run Data Batch 9	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20788	20791	Trans Run Data Batch 9	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
20792	20795	Trans Run Data Batch 9	Batch P1 Mass Total	IEEE double precision float
20796	20799	Trans Run Data Batch 9	Batch P2 Mass Total	IEEE double precision float
20800	20803	Trans Run Data Batch 9	Batch P3 Mass Total	IEEE double precision float
20804	20807	Trans Run Data Batch 9	Batch P4 Mass Total	IEEE double precision float
20808	20811	Trans Run Data Batch 9	Batch P5 Mass Total	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
20812	20815	Trans Run Data Batch 9	Batch P6 Mass Total	IEEE double precision float
20992	20999	Trans Run Data Batch 10	1st Alarm in Batch	Text (char[16])
21000	21007	Trans Run Data Batch 10	2nd Alarm in Batch	Text (char[16])
21008	21015	Trans Run Data Batch 10	3rd Alarm in Batch	Text (char[16])
21016	21023	Trans Run Data Batch 10	4th Alarm in Batch	Text (char[16])
21024	21031	Trans Run Data Batch 10	5th Alarm in Batch	Text (char[16])
21032	21039	Trans Run Data Batch 10	6th Alarm in Batch	Text (char[16])
21040	21047	Trans Run Data Batch 10	7th Alarm in Batch	Text (char[16])
21048	21055	Trans Run Data Batch 10	8th Alarm in Batch	Text (char[16])
21056	21063	Trans Run Data Batch 10	9th Alarm in Batch	Text (char[16])
21064	21071	Trans Run Data Batch 10	10th Alarm in Batch	Text (char[16])
21120	21121	Trans Run Data Batch 10	Average Flow Rate	IEEE single precision float
21122	21123	Trans Run Data Batch 10	Load Average Meter Factor	IEEE single precision float
21124	21125	Trans Run Data Batch 10	Load Average Temperature	IEEE single precision float
21126	21127	Trans Run Data Batch 10	Load Average Density	IEEE single precision float
21128	21129	Trans Run Data Batch 10	Load Average Pressure	IEEE single precision float
21130	21131	Trans Run Data Batch 10	Average CTL	IEEE single precision float
21132	21133	Trans Run Data Batch 10	Average CPL	IEEE single precision float
21134	21135	Trans Run Data Batch 10	Contaminant Percentage	IEEE single precision float
21136	21137	Trans Run Data Batch 10	Last Density Sample	IEEE single precision float
21184	21187	Trans Run Data Batch 10	Total Pulses	IEEE double precision float
21188	21191	Trans Run Data Batch 10	Indicated Volume (IV)	IEEE double precision float
21192	21195	Trans Run Data Batch 10	Gross Volume (GV)	IEEE double precision float
21196	21199	Trans Run Data Batch 10	Gross Volume @ Std Temp (GST)	IEEE double precision float
21200	21203	Trans Run Data Batch 10	Gross @ Std Temp & Press (GSV)	IEEE double precision float
21204	21207	Trans Run Data Batch 10	Mass Total	IEEE double precision float
21208	21211	Trans Run Data Batch 10	Additive 1 Volume	IEEE double precision float
21212	21215	Trans Run Data Batch 10	Additive 2 Volume	IEEE double precision float
21216	21219	Trans Run Data Batch 10	Additive 3 Volume	IEEE double precision float
21220	21223	Trans Run Data Batch 10	Additive 4 Volume	IEEE double precision float
21224	21227	Trans Run Data Batch 10	Additive 5 Volume	IEEE double precision float
21228	21231	Trans Run Data Batch 10	Additive 6 Volume	IEEE double precision float
21232	21235	Trans Run Data Batch 10	Additive 7 Volume	IEEE double precision float
21236	21239	Trans Run Data Batch 10	Additive 8 Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
21240	21243	Trans Run Data Batch 10	Additive 9 Volume	IEEE double precision float
21244	21247	Trans Run Data Batch 10	Additive 10 Volume	IEEE double precision float
21248	21251	Trans Run Data Batch 10	Additive 11 Volume	IEEE double precision float
21252	21255	Trans Run Data Batch 10	Additive 12 Volume	IEEE double precision float
21256	21259	Trans Run Data Batch 10	Additive 13 Volume	IEEE double precision float
21260	21263	Trans Run Data Batch 10	Additive 14 Volume	IEEE double precision float
21264	21267	Trans Run Data Batch 10	Additive 15 Volume	IEEE double precision float
21268	21271	Trans Run Data Batch 10	Additive 16 Volume	IEEE double precision float
21272	21275	Trans Run Data Batch 10	Additive 17 Volume	IEEE double precision float
21276	21279	Trans Run Data Batch 10	Additive 18 Volume	IEEE double precision float
21280	21283	Trans Run Data Batch 10	Additive 19 Volume	IEEE double precision float
21284	21287	Trans Run Data Batch 10	Additive 20 Volume	IEEE double precision float
21288	21291	Trans Run Data Batch 10	Additive 21 Volume	IEEE double precision float
21292	21295	Trans Run Data Batch 10	Additive 22 Volume	IEEE double precision float
21296	21299	Trans Run Data Batch 10	Additive 23 Volume	IEEE double precision float
21300	21303	Trans Run Data Batch 10	Additive 24 Volume	IEEE double precision float
21304	21307	Trans Run Data Batch 10	Flow Controlled Additive #1 Indicated Volume (IV)	IEEE double precision float
21308	21311	Trans Run Data Batch 10	Flow Controlled Additive #2 Indicated Volume (IV)	IEEE double precision float
21312	21315	Trans Run Data Batch 10	Flow Controlled Additive #3 Indicated Volume (IV)	IEEE double precision float
21316	21319	Trans Run Data Batch 10	Flow Controlled Additive #4 Indicated Volume (IV)	IEEE double precision float
21320	21323	Trans Run Data Batch 10	Flow Controlled Additive #1 Gross Volume (GV)	IEEE double precision float
21324	21327	Trans Run Data Batch 10	Flow Controlled Additive #2 Gross Volume (GV)	IEEE double precision float
21328	21331	Trans Run Data Batch 10	Flow Controlled Additive #3 Gross Volume (GV)	IEEE double precision float
21332	21335	Trans Run Data Batch 10	Flow Controlled Additive #4 Gross Volume (GV)	IEEE double precision float
21336	21339	Trans Run Data Batch 10	Flow Controlled Additive #1 Grs @ Std Temp (GST)	IEEE double precision float
21340	21343	Trans Run Data Batch 10	Flow Controlled Additive #2 Grs @ Std Temp (GST)	IEEE double precision float
21344	21347	Trans Run Data Batch 10	Flow Controlled Additive #3 Grs @ Std Temp (GST)	IEEE double precision float
21348	21351	Trans Run Data Batch 10	Flow Controlled Additive #4 Grs @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
21352	21355	Trans Run Data Batch 10	Flow Controlled Additive #1 Mass	IEEE double precision float
21356	21359	Trans Run Data Batch 10	Flow Controlled Additive #2 Mass	IEEE double precision float
21360	21363	Trans Run Data Batch 10	Flow Controlled Additive #3 Mass	IEEE double precision float
21364	21367	Trans Run Data Batch 10	Flow Controlled Additive #4 Mass	IEEE double precision float
21368	21371	Trans Run Data Batch 10	Straight Arm with VRS Recovered Mass	IEEE double precision float
21372	21375	Trans Run Data Batch 10	Straight Arm with VRS Net Mass	IEEE double precision float
21504		Trans Run Data Batch 10	Product Number	unsigned char
21505		Trans Run Data Batch 10	Recipe Number ("1" based; 1 = recipe 1)	unsigned char
21506		Trans Run Data Batch 10	HM Class Product	unsigned char
21507		Trans Run Data Batch 10	Batch Number	unsigned char
21508		Trans Run Data Batch 10	Prove Trip Accepted	unsigned char
21509		Trans Run Data Batch 10	Batch Load Arm	unsigned char
21568	21569	Trans Run Data Batch 10	Additive Mask	unsigned long integer
21888	21889	Trans Run Data Batch 10	P1 Average Flow Rate	IEEE single precision float
21890	21891	Trans Run Data Batch 10	P2 Average Flow Rate	IEEE single precision float
21892	21893	Trans Run Data Batch 10	P3 Average Flow Rate	IEEE single precision float
21894	21895	Trans Run Data Batch 10	P4 Average Flow Rate	IEEE single precision float
21896	21897	Trans Run Data Batch 10	P5 Average Flow Rate	IEEE single precision float
21898	21899	Trans Run Data Batch 10	P6 Average Flow Rate	IEEE single precision float
21900	21901	Trans Run Data Batch 10	P1 Load Average Meter Factor	IEEE single precision float
21902	21903	Trans Run Data Batch 10	P2 Load Average Meter Factor	IEEE single precision float
21904	21905	Trans Run Data Batch 10	P3 Load Average Meter Factor	IEEE single precision float
21906	21907	Trans Run Data Batch 10	P4 Load Average Meter Factor	IEEE single precision float
21908	21909	Trans Run Data Batch 10	P5 Load Average Meter Factor	IEEE single precision float
21910	21911	Trans Run Data Batch 10	P6 Load Average Meter Factor	IEEE single precision float
21912	21913	Trans Run Data Batch 10	P1 Load Average Temperature	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
21914	21915	Trans Run Data Batch 10	P2 Load Average Temperature	IEEE single precision float
21916	21917	Trans Run Data Batch 10	P3 Load Average Temperature	IEEE single precision float
21918	21919	Trans Run Data Batch 10	P4 Load Average Temperature	IEEE single precision float
21920	21921	Trans Run Data Batch 10	P5 Load Average Temperature	IEEE single precision float
21922	21923	Trans Run Data Batch 10	P6 Load Average Temperature	IEEE single precision float
21924	21925	Trans Run Data Batch 10	P1 Load Average Density	IEEE single precision float
21926	21927	Trans Run Data Batch 10	P2 Load Average Density	IEEE single precision float
21928	21929	Trans Run Data Batch 10	P3 Load Average Density	IEEE single precision float
21930	21931	Trans Run Data Batch 10	P4 Load Average Density	IEEE single precision float
21932	21933	Trans Run Data Batch 10	P5 Load Average Density	IEEE single precision float
21934	21935	Trans Run Data Batch 10	P6 Load Average Density	IEEE single precision float
21936	21937	Trans Run Data Batch 10	P1 Load Average Pressure	IEEE single precision float
21938	21939	Trans Run Data Batch 10	P2 Load Average Pressure	IEEE single precision float
21940	21941	Trans Run Data Batch 10	P3 Load Average Pressure	IEEE single precision float
21942	21943	Trans Run Data Batch 10	P4 Load Average Pressure	IEEE single precision float
21944	21945	Trans Run Data Batch 10	P5 Load Average Pressure	IEEE single precision float
21946	21947	Trans Run Data Batch 10	P6 Load Average Pressure	IEEE single precision float
21948	21949	Trans Run Data Batch 10	P1 Average CTL	IEEE single precision float
21950	21951	Trans Run Data Batch 10	P2 Average CTL	IEEE single precision float
21952	21953	Trans Run Data Batch 10	P3 Average CTL	IEEE single precision float
21954	21955	Trans Run Data Batch 10	P4 Average CTL	IEEE single precision float
21956	21957	Trans Run Data Batch 10	P5 Average CTL	IEEE single precision float
21958	21959	Trans Run Data Batch 10	P6 Average CTL	IEEE single precision float
21960	21961	Trans Run Data Batch 10	P1 Average CPL	IEEE single precision float
21962	21963	Trans Run Data Batch 10	P2 Average CPL	IEEE single precision float
21964	21965	Trans Run Data Batch 10	P3 Average CPL	IEEE single precision float
21966	21967	Trans Run Data Batch 10	P4 Average CPL	IEEE single precision float
21968	21969	Trans Run Data Batch 10	P5 Average CPL	IEEE single precision float
21970	21971	Trans Run Data Batch 10	P6 Average CPL	IEEE single precision float
21972	21973	Trans Run Data Batch 10	P1 CCF	IEEE single precision float
21974	21975	Trans Run Data Batch 10	P2 CCF	IEEE single precision float
21976	21977	Trans Run Data Batch 10	P3 CCF	IEEE single precision float
21978	21979	Trans Run Data Batch 10	P4 CCF	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
21980	21981	Trans Run Data Batch 10	P5 CCF	IEEE single precision float
21982	21983	Trans Run Data Batch 10	P6 CCF	IEEE single precision float
21984	21985	Trans Run Data Batch 10	P1 Average Reference Density	IEEE single precision float
21986	21987	Trans Run Data Batch 10	P2 Average Reference Density	IEEE single precision float
21988	21989	Trans Run Data Batch 10	P3 Average Reference Density	IEEE single precision float
21990	21991	Trans Run Data Batch 10	P4 Average Reference Density	IEEE single precision float
21992	21993	Trans Run Data Batch 10	P5 Average Reference Density	IEEE single precision float
21994	21995	Trans Run Data Batch 10	P6 Average Reference Density	IEEE single precision float
21996	21997	Trans Run Data Batch 10	P1 Average Relative Density	IEEE single precision float
21998	21999	Trans Run Data Batch 10	P2 Average Relative Density	IEEE single precision float
22000	22001	Trans Run Data Batch 10	P3 Average Relative Density	IEEE single precision float
22002	22003	Trans Run Data Batch 10	P4 Average Relative Density	IEEE single precision float
22004	22005	Trans Run Data Batch 10	P5 Average Relative Density	IEEE single precision float
22006	22007	Trans Run Data Batch 10	P6 Average Relative Density	IEEE single precision float
22008	22009	Trans Run Data Batch 10	P1 Average API @ Ref Temp	IEEE single precision float
22010	22011	Trans Run Data Batch 10	P2 Average API @ Ref Temp	IEEE single precision float
22012	22013	Trans Run Data Batch 10	P3 Average API @ Ref Temp	IEEE single precision float
22014	22015	Trans Run Data Batch 10	P4 Average API @ Ref Temp	IEEE single precision float
22016	22017	Trans Run Data Batch 10	P5 Average API @ Ref Temp	IEEE single precision float
22018	22019	Trans Run Data Batch 10	P6 Average API @ Ref Temp	IEEE single precision float
22020	22021	Trans Run Data Batch 10	P1 Average Vapor Pressure	IEEE single precision float
22022	22023	Trans Run Data Batch 10	P2 Average Vapor Pressure	IEEE single precision float
22024	22025	Trans Run Data Batch 10	P3 Average Vapor Pressure	IEEE single precision float
22026	22027	Trans Run Data Batch 10	P4 Average Vapor Pressure	IEEE single precision float
22028	22029	Trans Run Data Batch 10	P5 Average Vapor Pressure	IEEE single precision float
22030	22031	Trans Run Data Batch 10	P6 Average Vapor Pressure	IEEE single precision float
22032	22033	Trans Run Data Batch 10	P1 Average CTPL	IEEE single precision float
22034	22035	Trans Run Data Batch 10	P2 Average CTPL	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
22036	22037	Trans Run Data Batch 10	P3 Average CTPL	IEEE single precision float
22038	22039	Trans Run Data Batch 10	P4 Average CTPL	IEEE single precision float
22040	22041	Trans Run Data Batch 10	P5 Average CTPL	IEEE single precision float
22042	22043	Trans Run Data Batch 10	P6 Average CTPL	IEEE single precision float
22208	22211	Trans Run Data Batch 10	Batch P1 Total Pulses	IEEE double precision float
22212	22215	Trans Run Data Batch 10	Batch P2 Total Pulses	IEEE double precision float
22216	22219	Trans Run Data Batch 10	Batch P3 Total Pulses	IEEE double precision float
22220	22223	Trans Run Data Batch 10	Batch P4 Total Pulses	IEEE double precision float
22224	22227	Trans Run Data Batch 10	Batch P5 Total Pulses	IEEE double precision float
22228	22231	Trans Run Data Batch 10	Batch P6 Total Pulses	IEEE double precision float
22232	22235	Trans Run Data Batch 10	Batch P1 Indicated Volume (IV)	IEEE double precision float
22236	22239	Trans Run Data Batch 10	Batch P2 Indicated Volume (IV)	IEEE double precision float
22240	22243	Trans Run Data Batch 10	Batch P3 Indicated Volume (IV)	IEEE double precision float
22244	22247	Trans Run Data Batch 10	Batch P4 Indicated Volume (IV)	IEEE double precision float
22248	22251	Trans Run Data Batch 10	Batch P5 Indicated Volume (IV)	IEEE double precision float
22252	22255	Trans Run Data Batch 10	Batch P6 Indicated Volume (IV)	IEEE double precision float
22256	22259	Trans Run Data Batch 10	Batch P1 Gross Volume (GV)	IEEE double precision float
22260	22263	Trans Run Data Batch 10	Batch P2 Gross Volume (GV)	IEEE double precision float
22264	22267	Trans Run Data Batch 10	Batch P3 Gross Volume (GV)	IEEE double precision float
22268	22271	Trans Run Data Batch 10	Batch P4 Gross Volume (GV)	IEEE double precision float
22272	22275	Trans Run Data Batch 10	Batch P5 Gross Volume (GV)	IEEE double precision float
22276	22279	Trans Run Data Batch 10	Batch P6 Gross Volume (GV)	IEEE double precision float
22280	22283	Trans Run Data Batch 10	Batch P1 Gross @ Std Temp (GST)	IEEE double precision float
22284	22287	Trans Run Data Batch 10	Batch P2 Gross @ Std Temp (GST)	IEEE double precision float
22288	22291	Trans Run Data Batch 10	Batch P3 Gross @ Std Temp (GST)	IEEE double precision float
22292	22295	Trans Run Data Batch 10	Batch P4 Gross @ Std Temp (GST)	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
22296	22299	Trans Run Data Batch 10	Batch P5 Gross @ Std Temp (GST)	IEEE double precision float
22300	22303	Trans Run Data Batch 10	Batch P6 Gross @ Std Temp (GST)	IEEE double precision float
22304	22307	Trans Run Data Batch 10	Batch P1 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22308	22311	Trans Run Data Batch 10	Batch P2 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22312	22315	Trans Run Data Batch 10	Batch P3 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22316	22319	Trans Run Data Batch 10	Batch P4 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22320	22323	Trans Run Data Batch 10	Batch P5 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22324	22327	Trans Run Data Batch 10	Batch P6 Gross @ Std Temp & Press (GSV)	IEEE double precision float
22328	22331	Trans Run Data Batch 10	Batch P1 Mass Total	IEEE double precision float
22332	22335	Trans Run Data Batch 10	Batch P2 Mass Total	IEEE double precision float
22336	22339	Trans Run Data Batch 10	Batch P3 Mass Total	IEEE double precision float
22340	22343	Trans Run Data Batch 10	Batch P4 Mass Total	IEEE double precision float
22344	22347	Trans Run Data Batch 10	Batch P5 Mass Total	IEEE double precision float
22348	22351	Trans Run Data Batch 10	Batch P6 Mass Total	IEEE double precision float

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### *Recipe Run Data*

<b>Modbus Address</b>	<b>Ending Address</b>	<b>Data Set</b>	<b>Data Point</b>	<b>Data Type</b>
22528	22529	Recipe 1 Info (calculated)	Min Recipe Preset	IEEE single precision float
22530	22531	Recipe 1 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
22532	22533	Recipe 1 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
22534	22535	Recipe 1 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
22536	22537	Recipe 1 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
22538	22539	Recipe 1 Info (calculated)	Product 2 Second High low Rate	IEEE single precision float
22540	22541	Recipe 1 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
22542	22543	Recipe 1 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
22544	22545	Recipe 1 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
22546	22547	Recipe 1 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
22548	22549	Recipe 1 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
22550	22551	Recipe 1 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
22552	22553	Recipe 1 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
22592	22595	Recipe 1 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
22596	22599	Recipe 1 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
22600	22603	Recipe 1 Info	Recipe GST Non-resettable Volume	IEEE double precision float
22604	22607	Recipe 1 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
22608	22611	Recipe 1 Info	Recipe Mass Non-resettable Total	IEEE double precision float
22656	22657	Recipe 2 Info (calculated)	Min Recipe Preset	IEEE single precision float
22658	22659	Recipe 2 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
22660	22661	Recipe 2 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
22662	22663	Recipe 2 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
22664	22665	Recipe 2 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
22666	22667	Recipe 2 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
22668	22669	Recipe 2 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
22670	22671	Recipe 2 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
22672	22673	Recipe 2 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
22674	22675	Recipe 2 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
22676	22677	Recipe 2 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
22678	22679	Recipe 2 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
22680	22681	Recipe 2 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
22720	22723	Recipe 2 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
22724	22727	Recipe 2 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
22728	22731	Recipe 2 Info	Recipe GST Non-resettable Volume	IEEE double precision float
22732	22735	Recipe 2 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
22736	22739	Recipe 2 Info	Recipe Mass Non-resettable Total	IEEE double precision float
22784	22785	Recipe 3 Info (calculated)	Min Recipe Preset	IEEE single precision float
22786	22787	Recipe 3 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
22788	22789	Recipe 3 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
22790	22791	Recipe 3 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
22792	22793	Recipe 3 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
22794	22795	Recipe 3 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
22796	22797	Recipe 3 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
22798	22799	Recipe 3 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
22800	22801	Recipe 3 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
22802	22803	Recipe 3 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
22804	22805	Recipe 3 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
22806	22807	Recipe 3 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
22808	22809	Recipe 3 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
22848	22851	Recipe 3 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
22852	22855	Recipe 3 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
22856	22859	Recipe 3 Info	Recipe GST Non-resettable Volume	IEEE double precision float
22860	22863	Recipe 3 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
22864	22867	Recipe 3 Info	Recipe Mass Non-resettable Total	IEEE double precision float
22912	22913	Recipe 4 Info (calculated)	Min Recipe Preset	IEEE single precision float
22914	22915	Recipe 4 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
22916	22917	Recipe 4 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
22918	22919	Recipe 4 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
22920	22921	Recipe 4 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
22922	22923	Recipe 4 Info (calculated)	Product 2 Second High low Rate	IEEE single precision float
22924	22925	Recipe 4 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
22926	22927	Recipe 4 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
22928	22929	Recipe 4 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
22930	22931	Recipe 4 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
22932	22933	Recipe 4 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
22934	22935	Recipe 4 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
22936	22937	Recipe 4 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
22976	22979	Recipe 4 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
22980	22983	Recipe 4 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
22984	22987	Recipe 4 Info	Recipe GST Non-resettable Volume	IEEE double precision float
22988	22991	Recipe 4 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
22992	22995	Recipe 4 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23040	23041	Recipe 5 Info (calculated)	Min Recipe Preset	IEEE single precision float
23042	23043	Recipe 5 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23044	23045	Recipe 5 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23046	23047	Recipe 5 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23048	23049	Recipe 5 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23050	23051	Recipe 5 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23052	23053	Recipe 5 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23054	23055	Recipe 5 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23056	23057	Recipe 5 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23058	23059	Recipe 5 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23060	23061	Recipe 5 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23062	23063	Recipe 5 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23064	23065	Recipe 5 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23104	23107	Recipe 5 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23108	23111	Recipe 5 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23112	23115	Recipe 5 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23116	23119	Recipe 5 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23120	23123	Recipe 5 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23168	23169	Recipe 6 Info (calculated)	Min Recipe Preset	IEEE single precision float
23170	23171	Recipe 6 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23172	23173	Recipe 6 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23174	23175	Recipe 6 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23176	23177	Recipe 6 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23178	23179	Recipe 6 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23180	23181	Recipe 6 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23182	23183	Recipe 6 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23184	23185	Recipe 6 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23186	23187	Recipe 6 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23188	23189	Recipe 6 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23190	23191	Recipe 6 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23192	23193	Recipe 6 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23232	23235	Recipe 6 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23236	23239	Recipe 6 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23240	23243	Recipe 6 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23244	23247	Recipe 6 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23248	23251	Recipe 6 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23296	23297	Recipe 7 Info (calculated)	Min Recipe Preset	IEEE single precision float
23298	23299	Recipe 7 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23300	23301	Recipe 7 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23302	23303	Recipe 7 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23304	23305	Recipe 7 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23306	23307	Recipe 7 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23308	23309	Recipe 7 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23310	23311	Recipe 7 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23312	23313	Recipe 7 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23314	23315	Recipe 7 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23316	23317	Recipe 7 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23318	23319	Recipe 7 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23320	23321	Recipe 7 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23360	23363	Recipe 7 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23364	23367	Recipe 7 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23368	23371	Recipe 7 Info	Recipe GST Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23372	23375	Recipe 7 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23376	23379	Recipe 7 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23424	23425	Recipe 8 Info (calculated)	Min Recipe Preset	IEEE single precision float
23426	23427	Recipe 8 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23428	23429	Recipe 8 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23430	23431	Recipe 8 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23432	23433	Recipe 8 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23434	23435	Recipe 8 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23436	23437	Recipe 8 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23438	23439	Recipe 8 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23440	23441	Recipe 8 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23442	23443	Recipe 8 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23444	23445	Recipe 8 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23446	23447	Recipe 8 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23448	23449	Recipe 8 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23488	23491	Recipe 8 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23492	23495	Recipe 8 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23496	23499	Recipe 8 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23500	23503	Recipe 8 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23504	23507	Recipe 8 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23552	23553	Recipe 9 Info (calculated)	Min Recipe Preset	IEEE single precision float
23554	23555	Recipe 9 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23556	23557	Recipe 9 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23558	23559	Recipe 9 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23560	23561	Recipe 9 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23562	23563	Recipe 9 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23564	23565	Recipe 9 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23566	23567	Recipe 9 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23568	23569	Recipe 9 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23570	23571	Recipe 9 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23572	23573	Recipe 9 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23574	23575	Recipe 9 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23576	23577	Recipe 9 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23616	23619	Recipe 9 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23620	23623	Recipe 9 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23624	23627	Recipe 9 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23628	23631	Recipe 9 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23632	23635	Recipe 9 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23680	23681	Recipe 10 Info (calculated)	Min Recipe Preset	IEEE single precision float
23682	23683	Recipe 10 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23684	23685	Recipe 10 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23686	23687	Recipe 10 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23688	23689	Recipe 10 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23690	23691	Recipe 10 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23692	23693	Recipe 10 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23694	23695	Recipe 10 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23696	23697	Recipe 10 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23698	23699	Recipe 10 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23700	23701	Recipe 10 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23702	23703	Recipe 10 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23704	23705	Recipe 10 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23744	23747	Recipe 10 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23748	23751	Recipe 10 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23752	23755	Recipe 10 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23756	23759	Recipe 10 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23760	23763	Recipe 10 Info	Recipe Mass Non-resettable Total	IEEE double precision float
23808	23809	Recipe 11 Info (calculated)	Min Recipe Preset	IEEE single precision float
23810	23811	Recipe 11 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23812	23813	Recipe 11 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23814	23815	Recipe 11 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23816	23817	Recipe 11 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23818	23819	Recipe 11 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23820	23821	Recipe 11 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23822	23823	Recipe 11 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23824	23825	Recipe 11 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23826	23827	Recipe 11 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23828	23829	Recipe 11 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23830	23831	Recipe 11 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23832	23833	Recipe 11 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
23872	23875	Recipe 11 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
23876	23879	Recipe 11 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
23880	23883	Recipe 11 Info	Recipe GST Non-resettable Volume	IEEE double precision float
23884	23887	Recipe 11 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
23888	23891	Recipe 11 Info	Recipe Mass Non-resettable Total	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
23936	23937	Recipe 12 Info (calculated)	Min Recipe Preset	IEEE single precision float
23938	23939	Recipe 12 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
23940	23941	Recipe 12 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
23942	23943	Recipe 12 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
23944	23945	Recipe 12 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
23946	23947	Recipe 12 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
23948	23949	Recipe 12 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
23950	23951	Recipe 12 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
23952	23953	Recipe 12 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
23954	23955	Recipe 12 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
23956	23957	Recipe 12 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
23958	23959	Recipe 12 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
23960	23961	Recipe 12 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24000	24003	Recipe 12 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24004	24007	Recipe 12 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24008	24011	Recipe 12 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24012	24015	Recipe 12 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24016	24019	Recipe 12 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24064	24065	Recipe 13 Info (calculated)	Min Recipe Preset	IEEE single precision float
24066	24067	Recipe 13 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24068	24069	Recipe 13 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24070	24071	Recipe 13 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24072	24073	Recipe 13 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24074	24075	Recipe 13 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24076	24077	Recipe 13 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24078	24079	Recipe 13 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24080	24081	Recipe 13 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
24082	24083	Recipe 13 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24084	24085	Recipe 13 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24086	24087	Recipe 13 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24088	24089	Recipe 13 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24128	24131	Recipe 13 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24132	24135	Recipe 13 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24136	24139	Recipe 13 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24140	24143	Recipe 13 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24144	24147	Recipe 13 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24192	24193	Recipe 14 Info (calculated)	Min Recipe Preset	IEEE single precision float
24194	24195	Recipe 14 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24196	24197	Recipe 14 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24198	24199	Recipe 14 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24200	24201	Recipe 14 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24202	24203	Recipe 14 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24204	24205	Recipe 14 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24206	24207	Recipe 14 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24208	24209	Recipe 14 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24210	24211	Recipe 14 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24212	24213	Recipe 14 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24214	24215	Recipe 14 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24216	24217	Recipe 14 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24256	24259	Recipe 14 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24260	24263	Recipe 14 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24264	24267	Recipe 14 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24268	24271	Recipe 14 Info	Recipe GSV Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
24272	24275	Recipe 14 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24320	24321	Recipe 15 Info (calculated)	Min Recipe Preset	IEEE single precision float
24322	24323	Recipe 15 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24324	24325	Recipe 15 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24326	24327	Recipe 15 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24328	24329	Recipe 15 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24330	24331	Recipe 15 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24332	24333	Recipe 15 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24334	24335	Recipe 15 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24336	24337	Recipe 15 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24338	24339	Recipe 15 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24340	24341	Recipe 15 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24342	24343	Recipe 15 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24344	24345	Recipe 15 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24384	24387	Recipe 15 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24388	24391	Recipe 15 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24392	24395	Recipe 15 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24396	24399	Recipe 15 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24400	24403	Recipe 15 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24448	24449	Recipe 16 Info (calculated)	Min Recipe Preset	IEEE single precision float
24450	24451	Recipe 16 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24452	24453	Recipe 16 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24454	24455	Recipe 16 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24456	24457	Recipe 16 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24458	24459	Recipe 16 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24460	24461	Recipe 16 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24462	24463	Recipe 16 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
24464	24465	Recipe 16 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24466	24467	Recipe 16 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24468	24469	Recipe 16 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24470	24471	Recipe 16 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24472	24473	Recipe 16 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24512	24515	Recipe 16 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24516	24519	Recipe 16 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24520	24523	Recipe 16 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24524	24527	Recipe 16 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24528	24531	Recipe 16 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24576	24577	Recipe 17 Info (calculated)	Min Recipe Preset	IEEE single precision float
24578	24579	Recipe 17 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24580	24581	Recipe 17 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24582	24583	Recipe 17 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24584	24585	Recipe 17 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24586	24587	Recipe 17 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24588	24589	Recipe 17 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24590	24591	Recipe 17 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24592	24593	Recipe 17 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24594	24595	Recipe 17 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24596	24597	Recipe 17 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24598	24599	Recipe 17 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24600	24601	Recipe 17 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24640	24643	Recipe 17 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24644	24647	Recipe 17 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24648	24651	Recipe 17 Info	Recipe GST Non-resettable Volume	IEEE double precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
24652	24655	Recipe 17 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24656	24659	Recipe 17 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24704	24705	Recipe 18 Info (calculated)	Min Recipe Preset	IEEE single precision float
24706	24707	Recipe 18 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24708	24709	Recipe 18 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24710	24711	Recipe 18 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24712	24713	Recipe 18 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24714	24715	Recipe 18 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24716	24717	Recipe 18 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24718	24719	Recipe 18 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24720	24721	Recipe 18 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24722	24723	Recipe 18 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24724	24725	Recipe 18 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24726	24727	Recipe 18 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24728	24729	Recipe 18 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24768	24771	Recipe 18 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24772	24775	Recipe 18 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24776	24779	Recipe 18 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24780	24783	Recipe 18 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24784	24787	Recipe 18 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24832	24833	Recipe 19 Info (calculated)	Min Recipe Preset	IEEE single precision float
24834	24835	Recipe 19 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24836	24837	Recipe 19 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24838	24839	Recipe 19 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24840	24841	Recipe 19 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24842	24843	Recipe 19 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
24844	24845	Recipe 19 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24846	24847	Recipe 19 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24848	24849	Recipe 19 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24850	24851	Recipe 19 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24852	24853	Recipe 19 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24854	24855	Recipe 19 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24856	24857	Recipe 19 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
24896	24899	Recipe 19 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
24900	24903	Recipe 19 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
24904	24907	Recipe 19 Info	Recipe GST Non-resettable Volume	IEEE double precision float
24908	24911	Recipe 19 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
24912	24915	Recipe 19 Info	Recipe Mass Non-resettable Total	IEEE double precision float
24960	24961	Recipe 20 Info (calculated)	Min Recipe Preset	IEEE single precision float
24962	24963	Recipe 20 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
24964	24965	Recipe 20 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
24966	24967	Recipe 20 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
24968	24969	Recipe 20 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
24970	24971	Recipe 20 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
24972	24973	Recipe 20 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
24974	24975	Recipe 20 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
24976	24977	Recipe 20 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
24978	24979	Recipe 20 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
24980	24981	Recipe 20 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
24982	24983	Recipe 20 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
24984	24985	Recipe 20 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25024	25027	Recipe 20 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25028	25031	Recipe 20 Info	Recipe Gross Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25032	25035	Recipe 20 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25036	25039	Recipe 20 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25040	25043	Recipe 20 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25088	25089	Recipe 21 Info (calculated)	Min Recipe Preset	IEEE single precision float
25090	25091	Recipe 21 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25092	25093	Recipe 21 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25094	25095	Recipe 21 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25096	25097	Recipe 21 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25098	25099	Recipe 21 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25100	25101	Recipe 21 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25102	25103	Recipe 21 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25104	25105	Recipe 21 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25106	25107	Recipe 21 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25108	25109	Recipe 21 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25110	25111	Recipe 21 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25112	25113	Recipe 21 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25152	25155	Recipe 21 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25156	25159	Recipe 21 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25160	25163	Recipe 21 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25164	25167	Recipe 21 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25168	25171	Recipe 21 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25216	25217	Recipe 22 Info (calculated)	Min Recipe Preset	IEEE single precision float
25218	25219	Recipe 22 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25220	25221	Recipe 22 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25222	25223	Recipe 22 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25224	25225	Recipe 22 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25226	25227	Recipe 22 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25228	25229	Recipe 22 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25230	25231	Recipe 22 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25232	25233	Recipe 22 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25234	25235	Recipe 22 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25236	25237	Recipe 22 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25238	25239	Recipe 22 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25240	25241	Recipe 22 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25280	25283	Recipe 22 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25284	25287	Recipe 22 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25288	25291	Recipe 22 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25292	25295	Recipe 22 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25296	25299	Recipe 22 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25344	25345	Recipe 23 Info (calculated)	Min Recipe Preset	IEEE single precision float
25346	25347	Recipe 23 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25348	25349	Recipe 23 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25350	25351	Recipe 23 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25352	25353	Recipe 23 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25354	25355	Recipe 23 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25356	25357	Recipe 23 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25358	25359	Recipe 23 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25360	25361	Recipe 23 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25362	25363	Recipe 23 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25364	25365	Recipe 23 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25366	25367	Recipe 23 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25368	25369	Recipe 23 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25408	25411	Recipe 23 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25412	25415	Recipe 23 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25416	25419	Recipe 23 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25420	25423	Recipe 23 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25424	25427	Recipe 23 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25472	25473	Recipe 24 Info (calculated)	Min Recipe Preset	IEEE single precision float
25474	25475	Recipe 24 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25476	25477	Recipe 24 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25478	25479	Recipe 24 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25480	25481	Recipe 24 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25482	25483	Recipe 24 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25484	25485	Recipe 24 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25486	25487	Recipe 24 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25488	25489	Recipe 24 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25490	25491	Recipe 24 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25492	25493	Recipe 24 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25494	25495	Recipe 24 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25496	25497	Recipe 24 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25536	25539	Recipe 24 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25540	25543	Recipe 24 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25544	25547	Recipe 24 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25548	25551	Recipe 24 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25552	25555	Recipe 24 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25600	25601	Recipe 25 Info (calculated)	Min Recipe Preset	IEEE single precision float
25602	25603	Recipe 25 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25604	25605	Recipe 25 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25606	25607	Recipe 25 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25608	25609	Recipe 25 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25610	25611	Recipe 25 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25612	25613	Recipe 25 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25614	25615	Recipe 25 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25616	25617	Recipe 25 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25618	25619	Recipe 25 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25620	25621	Recipe 25 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25622	25623	Recipe 25 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25624	25625	Recipe 25 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25664	25667	Recipe 25 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25668	25671	Recipe 25 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25672	25675	Recipe 25 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25676	25679	Recipe 25 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25680	25683	Recipe 25 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25728	25729	Recipe 26 Info (calculated)	Min Recipe Preset	IEEE single precision float
25730	25731	Recipe 26 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25732	25733	Recipe 26 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25734	25735	Recipe 26 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25736	25737	Recipe 26 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25738	25739	Recipe 26 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25740	25741	Recipe 26 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25742	25743	Recipe 26 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25744	25745	Recipe 26 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25746	25747	Recipe 26 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25748	25749	Recipe 26 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25750	25751	Recipe 26 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25752	25753	Recipe 26 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25792	25795	Recipe 26 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25796	25799	Recipe 26 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25800	25803	Recipe 26 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25804	25807	Recipe 26 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25808	25811	Recipe 26 Info	Recipe Mass Non-resettable Total	IEEE double precision float
25856	25857	Recipe 27 Info (calculated)	Min Recipe Preset	IEEE single precision float
25858	25859	Recipe 27 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25860	25861	Recipe 27 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25862	25863	Recipe 27 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25864	25865	Recipe 27 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25866	25867	Recipe 27 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
25868	25869	Recipe 27 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25870	25871	Recipe 27 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
25872	25873	Recipe 27 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
25874	25875	Recipe 27 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
25876	25877	Recipe 27 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
25878	25879	Recipe 27 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
25880	25881	Recipe 27 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
25920	25923	Recipe 27 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
25924	25927	Recipe 27 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
25928	25931	Recipe 27 Info	Recipe GST Non-resettable Volume	IEEE double precision float
25932	25935	Recipe 27 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
25936	25939	Recipe 27 Info	Recipe Mass Non-resettable Total	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
25984	25985	Recipe 28 Info (calculated)	Min Recipe Preset	IEEE single precision float
25986	25987	Recipe 28 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
25988	25989	Recipe 28 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
25990	25991	Recipe 28 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
25992	25993	Recipe 28 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
25994	25995	Recipe 28 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
25996	25997	Recipe 28 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
25998	25999	Recipe 28 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26000	26001	Recipe 28 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26002	26003	Recipe 28 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26004	26005	Recipe 28 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26006	26007	Recipe 28 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26008	26009	Recipe 28 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26048	26051	Recipe 28 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26052	26055	Recipe 28 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26056	26059	Recipe 28 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26060	26063	Recipe 28 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26064	26067	Recipe 28 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26112	26113	Recipe 29 Info (calculated)	Min Recipe Preset	IEEE single precision float
26114	26115	Recipe 29 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26116	26117	Recipe 29 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26118	26119	Recipe 29 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26120	26121	Recipe 29 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26122	26123	Recipe 29 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26124	26125	Recipe 29 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26126	26127	Recipe 29 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26128	26129	Recipe 29 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
26130	26131	Recipe 29 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26132	26133	Recipe 29 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26134	26135	Recipe 29 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26136	26137	Recipe 29 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26176	26179	Recipe 29 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26180	26183	Recipe 29 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26184	26187	Recipe 29 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26188	26191	Recipe 29 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26192	26195	Recipe 29 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26240	26241	Recipe 30 Info (calculated)	Min Recipe Preset	IEEE single precision float
26242	26243	Recipe 30 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26244	26245	Recipe 30 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26246	26247	Recipe 30 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26248	26249	Recipe 30 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26250	26251	Recipe 30 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26252	26253	Recipe 30 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26254	26255	Recipe 30 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26256	26257	Recipe 30 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26258	26259	Recipe 30 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26260	26261	Recipe 30 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26262	26263	Recipe 30 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26264	26265	Recipe 30 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26304	26307	Recipe 30 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26308	26311	Recipe 30 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26312	26315	Recipe 30 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26316	26319	Recipe 30 Info	Recipe GSV Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
26320	26323	Recipe 30 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26368	26369	Recipe 31 Info (calculated)	Min Recipe Preset	IEEE single precision float
26370	26371	Recipe 31 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26372	26373	Recipe 31 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26374	26375	Recipe 31 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26376	26377	Recipe 31 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26378	26379	Recipe 31 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26380	26381	Recipe 31 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26382	26383	Recipe 31 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26384	26385	Recipe 31 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26386	26387	Recipe 31 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26388	26389	Recipe 31 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26390	26391	Recipe 31 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26392	26393	Recipe 31 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26432	26435	Recipe 31 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26436	26439	Recipe 31 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26440	26443	Recipe 31 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26444	26447	Recipe 31 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26448	26451	Recipe 31 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26496	26497	Recipe 32 Info (calculated)	Min Recipe Preset	IEEE single precision float
26498	26499	Recipe 32 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26500	26501	Recipe 32 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26502	26503	Recipe 32 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26504	26505	Recipe 32 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26506	26507	Recipe 32 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26508	26509	Recipe 32 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26510	26511	Recipe 32 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
26512	26513	Recipe 32 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26514	26515	Recipe 32 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26516	26517	Recipe 32 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26518	26519	Recipe 32 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26520	26521	Recipe 32 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26560	26563	Recipe 32 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26564	26567	Recipe 32 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26568	26571	Recipe 32 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26572	26575	Recipe 32 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26576	26579	Recipe 32 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26624	26625	Recipe 33 Info (calculated)	Min Recipe Preset	IEEE single precision float
26626	26627	Recipe 33 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26628	26629	Recipe 33 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26630	26631	Recipe 33 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26632	26633	Recipe 33 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26634	26635	Recipe 33 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26636	26637	Recipe 33 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26638	26639	Recipe 33 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26640	26641	Recipe 33 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26642	26643	Recipe 33 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26644	26645	Recipe 33 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26646	26647	Recipe 33 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26648	26649	Recipe 33 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26688	26691	Recipe 33 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26692	26695	Recipe 33 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26696	26699	Recipe 33 Info	Recipe GST Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
26700	26703	Recipe 33 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26704	26707	Recipe 33 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26752	26753	Recipe 34 Info (calculated)	Min Recipe Preset	IEEE single precision float
26754	26755	Recipe 34 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26756	26757	Recipe 34 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26758	26759	Recipe 34 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26760	26761	Recipe 34 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26762	26763	Recipe 34 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
26764	26765	Recipe 34 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26766	26767	Recipe 34 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26768	26769	Recipe 34 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26770	26771	Recipe 34 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26772	26773	Recipe 34 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26774	26775	Recipe 34 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26776	26777	Recipe 34 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26816	26819	Recipe 34 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26820	26823	Recipe 34 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26824	26827	Recipe 34 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26828	26831	Recipe 34 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26832	26835	Recipe 34 Info	Recipe Mass Non-resettable Total	IEEE double precision float
26880	26881	Recipe 35 Info (calculated)	Min Recipe Preset	IEEE single precision float
26882	26883	Recipe 35 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
26884	26885	Recipe 35 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
26886	26887	Recipe 35 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
26888	26889	Recipe 35 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
26890	26891	Recipe 35 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
26892	26893	Recipe 35 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
26894	26895	Recipe 35 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
26896	26897	Recipe 35 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
26898	26899	Recipe 35 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
26900	26901	Recipe 35 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
26902	26903	Recipe 35 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
26904	26905	Recipe 35 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
26944	26947	Recipe 35 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
26948	26951	Recipe 35 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
26952	26955	Recipe 35 Info	Recipe GST Non-resettable Volume	IEEE double precision float
26956	26959	Recipe 35 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
26960	26963	Recipe 35 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27008	27009	Recipe 36 Info (calculated)	Min Recipe Preset	IEEE single precision float
27010	27011	Recipe 36 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27012	27013	Recipe 36 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27014	27015	Recipe 36 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27016	27017	Recipe 36 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27018	27019	Recipe 36 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27020	27021	Recipe 36 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27022	27023	Recipe 36 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27024	27025	Recipe 36 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27026	27027	Recipe 36 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27028	27029	Recipe 36 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27030	27031	Recipe 36 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27032	27033	Recipe 36 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27072	27075	Recipe 36 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27076	27079	Recipe 36 Info	Recipe Gross Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
27080	27083	Recipe 36 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27084	27087	Recipe 36 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27088	27091	Recipe 36 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27136	27137	Recipe 37 Info (calculated)	Min Recipe Preset	IEEE single precision float
27138	27139	Recipe 37 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27140	27141	Recipe 37 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27142	27143	Recipe 37 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27144	27145	Recipe 37 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27146	27147	Recipe 37 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27148	27149	Recipe 37 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27150	27151	Recipe 37 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27152	27153	Recipe 37 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27154	27155	Recipe 37 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27156	27157	Recipe 37 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27158	27159	Recipe 37 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27160	27161	Recipe 37 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27200	27203	Recipe 37 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27204	27207	Recipe 37 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27208	27211	Recipe 37 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27212	27215	Recipe 37 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27216	27219	Recipe 37 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27264	27265	Recipe 38 Info (calculated)	Min Recipe Preset	IEEE single precision float
27266	27267	Recipe 38 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27268	27269	Recipe 38 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27270	27271	Recipe 38 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27272	27273	Recipe 38 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
27274	27275	Recipe 38 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27276	27277	Recipe 38 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27278	27279	Recipe 38 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27280	27281	Recipe 38 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27282	27283	Recipe 38 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27284	27285	Recipe 38 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27286	27287	Recipe 38 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27288	27289	Recipe 38 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27328	27331	Recipe 38 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27332	27335	Recipe 38 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27336	27339	Recipe 38 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27340	27343	Recipe 38 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27344	27347	Recipe 38 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27392	27393	Recipe 39 Info (calculated)	Min Recipe Preset	IEEE single precision float
27394	27395	Recipe 39 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27396	27397	Recipe 39 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27398	27399	Recipe 39 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27400	27401	Recipe 39 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27402	27403	Recipe 39 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27404	27405	Recipe 39 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27406	27407	Recipe 39 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27408	27409	Recipe 39 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27410	27411	Recipe 39 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27412	27413	Recipe 39 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27414	27415	Recipe 39 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27416	27417	Recipe 39 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
27456	27459	Recipe 39 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27460	27463	Recipe 39 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27464	27467	Recipe 39 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27468	27471	Recipe 39 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27472	27475	Recipe 39 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27520	27521	Recipe 40 Info (calculated)	Min Recipe Preset	IEEE single precision float
27522	27523	Recipe 40 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27524	27525	Recipe 40 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27526	27527	Recipe 40 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27528	27529	Recipe 40 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27530	27531	Recipe 40 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
27532	27533	Recipe 40 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27534	27535	Recipe 40 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27536	27537	Recipe 40 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27538	27539	Recipe 40 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27540	27541	Recipe 40 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27542	27543	Recipe 40 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27544	27545	Recipe 40 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27584	27587	Recipe 40 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27588	27591	Recipe 40 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27592	27595	Recipe 40 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27596	27599	Recipe 40 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27600	27603	Recipe 40 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27648	27649	Recipe 41 Info (calculated)	Min Recipe Preset	IEEE single precision float
27650	27651	Recipe 41 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
27652	27653	Recipe 41 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27654	27655	Recipe 41 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27656	27657	Recipe 41 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27658	27659	Recipe 41 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27660	27661	Recipe 41 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27662	27663	Recipe 41 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27664	27665	Recipe 41 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27666	27667	Recipe 41 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27668	27669	Recipe 41 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27670	27671	Recipe 41 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27672	27673	Recipe 41 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27712	27715	Recipe 41 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27716	27719	Recipe 41 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27720	27723	Recipe 41 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27724	27727	Recipe 41 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27728	27731	Recipe 41 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27776	27777	Recipe 42 Info (calculated)	Min Recipe Preset	IEEE single precision float
27778	27779	Recipe 42 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27780	27781	Recipe 42 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27782	27783	Recipe 42 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27784	27785	Recipe 42 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27786	27787	Recipe 42 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27788	27789	Recipe 42 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27790	27791	Recipe 42 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27792	27793	Recipe 42 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27794	27795	Recipe 42 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27796	27797	Recipe 42 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
27798	27799	Recipe 42 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27800	27801	Recipe 42 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27840	27843	Recipe 42 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27844	27847	Recipe 42 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27848	27851	Recipe 42 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27852	27855	Recipe 42 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27856	27859	Recipe 42 Info	Recipe Mass Non-resettable Total	IEEE double precision float
27904	27905	Recipe 43 Info (calculated)	Min Recipe Preset	IEEE single precision float
27906	27907	Recipe 43 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
27908	27909	Recipe 43 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
27910	27911	Recipe 43 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
27912	27913	Recipe 43 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
27914	27915	Recipe 43 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
27916	27917	Recipe 43 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
27918	27919	Recipe 43 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
27920	27921	Recipe 43 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
27922	27923	Recipe 43 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
27924	27925	Recipe 43 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
27926	27927	Recipe 43 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
27928	27929	Recipe 43 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
27968	27971	Recipe 43 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
27972	27975	Recipe 43 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
27976	27979	Recipe 43 Info	Recipe GST Non-resettable Volume	IEEE double precision float
27980	27983	Recipe 43 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
27984	27987	Recipe 43 Info	Recipe Mass Non-resettable Total	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
28032	28033	Recipe 44 Info (calculated)	Min Recipe Preset	IEEE single precision float
28034	28035	Recipe 44 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28036	28037	Recipe 44 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28038	28039	Recipe 44 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28040	28041	Recipe 44 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28042	28043	Recipe 44 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28044	28045	Recipe 44 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28046	28047	Recipe 44 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28048	28049	Recipe 44 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28050	28051	Recipe 44 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28052	28053	Recipe 44 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28054	28055	Recipe 44 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28056	28057	Recipe 44 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28096	28099	Recipe 44 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28100	28103	Recipe 44 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28104	28107	Recipe 44 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28108	28111	Recipe 44 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28112	28115	Recipe 44 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28160	28161	Recipe 45 Info (calculated)	Min Recipe Preset	IEEE single precision float
28162	28163	Recipe 45 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28164	28165	Recipe 45 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28166	28167	Recipe 45 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28168	28169	Recipe 45 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28170	28171	Recipe 45 Info (calculated)	Product 2 Second High Low Rate	IEEE single precision float
28172	28173	Recipe 45 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28174	28175	Recipe 45 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28176	28177	Recipe 45 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
28178	28179	Recipe 45 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28180	28181	Recipe 45 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28182	28183	Recipe 45 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28184	28185	Recipe 45 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28224	28227	Recipe 45 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28228	28231	Recipe 45 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28232	28235	Recipe 45 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28236	28239	Recipe 45 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28240	28243	Recipe 45 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28288	28289	Recipe 46 Info (calculated)	Min Recipe Preset	IEEE single precision float
28290	28291	Recipe 46 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28292	28293	Recipe 46 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28294	28295	Recipe 46 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28296	28297	Recipe 46 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28298	28299	Recipe 46 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28300	28301	Recipe 46 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28302	28303	Recipe 46 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28304	28305	Recipe 46 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28306	28307	Recipe 46 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28308	28309	Recipe 46 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28310	28311	Recipe 46 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28312	28313	Recipe 46 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28352	28355	Recipe 46 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28356	28359	Recipe 46 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28360	28363	Recipe 46 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28364	28367	Recipe 46 Info	Recipe GSV Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
28368	28371	Recipe 46 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28416	28417	Recipe 47 Info (calculated)	Min Recipe Preset	IEEE single precision float
28418	28419	Recipe 47 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28420	28421	Recipe 47 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28422	28423	Recipe 47 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28424	28425	Recipe 47 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28426	28427	Recipe 47 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28428	28429	Recipe 47 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28430	28431	Recipe 47 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28432	28433	Recipe 47 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28434	28435	Recipe 47 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28436	28437	Recipe 47 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28438	28439	Recipe 47 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28440	28441	Recipe 47 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28480	28483	Recipe 47 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28484	28487	Recipe 47 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28488	28491	Recipe 47 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28492	28495	Recipe 47 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28496	28499	Recipe 47 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28544	28545	Recipe 48 Info (calculated)	Min Recipe Preset	IEEE single precision float
28546	28547	Recipe 48 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28548	28549	Recipe 48 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28550	28551	Recipe 48 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28552	28553	Recipe 48 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28554	28555	Recipe 48 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28556	28557	Recipe 48 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28558	28559	Recipe 48 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
28560	28561	Recipe 48 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28562	28563	Recipe 48 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28564	28565	Recipe 48 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28566	28567	Recipe 48 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28568	28569	Recipe 48 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28608	28611	Recipe 48 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28612	28615	Recipe 48 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28616	28619	Recipe 48 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28620	28623	Recipe 48 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28624	28627	Recipe 48 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28672	28673	Recipe 49 Info (calculated)	Min Recipe Preset	IEEE single precision float
28674	28675	Recipe 49 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28676	28677	Recipe 49 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28678	28679	Recipe 49 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28680	28681	Recipe 49 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28682	28683	Recipe 49 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28684	28685	Recipe 49 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28686	28687	Recipe 49 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28688	28689	Recipe 49 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28690	28691	Recipe 49 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28692	28693	Recipe 49 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28694	28695	Recipe 49 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28696	28697	Recipe 49 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28736	28739	Recipe 49 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28740	28743	Recipe 49 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28744	28747	Recipe 49 Info	Recipe GST Non-resettable Volume	IEEE double precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
28748	28751	Recipe 49 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28752	28755	Recipe 49 Info	Recipe Mass Non-resettable Total	IEEE double precision float
28800	28801	Recipe 50 Info (calculated)	Min Recipe Preset	IEEE single precision float
28802	28803	Recipe 50 Info (calculated)	Product 1 High Flow Rate	IEEE single precision float
28804	28805	Recipe 50 Info (calculated)	Product 1 Second High Flow Rate	IEEE single precision float
28806	28807	Recipe 50 Info (calculated)	Product 1 Low Flow Rate	IEEE single precision float
28808	28809	Recipe 50 Info (calculated)	Product 2 High Flow Rate	IEEE single precision float
28810	28811	Recipe 50 Info (calculated)	Product 2 Second High Flow Rate	IEEE single precision float
28812	28813	Recipe 50 Info (calculated)	Product 2 Low Flow Rate	IEEE single precision float
28814	28815	Recipe 50 Info (calculated)	Product 3 High Flow Rate	IEEE single precision float
28816	28817	Recipe 50 Info (calculated)	Product 3 Second High Flow Rate	IEEE single precision float
28818	28819	Recipe 50 Info (calculated)	Product 3 Low Flow Rate	IEEE single precision float
28820	28821	Recipe 50 Info (calculated)	Product 4 High Flow Rate	IEEE single precision float
28822	28823	Recipe 50 Info (calculated)	Product 4 Second High Flow Rate	IEEE single precision float
28824	28825	Recipe 50 Info (calculated)	Product 4 Low Flow Rate	IEEE single precision float
28864	28867	Recipe 50 Info	Recipe Indicated Non-resettable Volume	IEEE double precision float
28868	28871	Recipe 50 Info	Recipe Gross Non-resettable Volume	IEEE double precision float
28872	28875	Recipe 50 Info	Recipe GST Non-resettable Volume	IEEE double precision float
28876	28879	Recipe 50 Info	Recipe GSV Non-resettable Volume	IEEE double precision float
28880	28883	Recipe 50 Info	Recipe Mass Non-resettable Total	IEEE double precision float
29696	29697	Meter 5 Run Data	Analog Valve %	IEEE single precision float
29698	29699	Meter 5 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
29700	29701	Meter 5 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float
29702	29703	Meter 5 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
29704	29705	Meter 5 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float

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Modbus Address	Ending Address	Data Set	Data Point	Data Type
29706	29707	Meter 5 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float
29708	29709	Meter 5 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
29710	29711	Meter 5 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
29712	29713	Meter 5 Run Data	Control Valve Diagnostic - Valve Close Time	IEEE single precision float
29714	29715	Meter 5 Run Data	Control Valve Diagnostic - Valve Close Amount	IEEE single precision float
29716	29717	Meter 5 Run Data	Control Valve Diagnostic - Valve Close Flow Rate	IEEE single precision float
29760		Meter 5 Run Data	Valve Status	unsigned character
29761		Meter 5 Run Data	Turbine Meter Diagnostic State	unsigned character
29762		Meter 5 Run Data	Turbine Meter Diagnostic Status	unsigned character
29824	29825	Meter 6 Run Data	Analog Valve %	IEEE single precision float
29826	29827	Meter 6 Run Data	Turbine Meter Diagnostic - Meter Signature	IEEE single precision float
29828	29829	Meter 6 Run Data	Turbine Meter Diagnostic - Meter Signature Deviation	IEEE single precision float
29830	29831	Meter 6 Run Data	Turbine Meter Diagnostic - Blade Signature	IEEE single precision float
29832	29833	Meter 6 Run Data	Turbine Meter Diagnostic - Blade Signature Deviation	IEEE single precision float
29834	29835	Meter 6 Run Data	Turbine Meter Diagnostic - Rotation Signature	IEEE single precision float
29836	29837	Meter 6 Run Data	Turbine Meter Diagnostic - Rotation Signature Deviation	IEEE single precision float
29838	29839	Meter 6 Run Data	Turbine Meter Diagnostic - Current Value	IEEE single precision float
29840	29841	Meter 6 Run Data	Control Valve Diagnostic - Valve Close Time	IEEE single precision float
29842	29843	Meter 6 Run Data	Control Valve Diagnostic - Valve Close Amount	IEEE single precision float
29844	29845	Meter 6 Run Data	Control Valve Diagnostic - Valve Close Flow Rate	IEEE single precision float
29888		Meter 6 Run Data	Valve Status	unsigned character
29889		Meter 6 Run Data	Turbine Meter Diagnostic State	unsigned character



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Modbus Address	Ending Address	Data Set	Data Point	Data Type
29890		Meter 6 Run Data	Turbine Meter Diagnostic Status	unsigned character
30720	30727	Bay Run Data	1st Alarm in Transaction	Text (char[16])
30728	30735	Bay Run Data	2nd Alarm in Transaction	Text (char[16])
30736	30743	Bay Run Data	3rd Alarm in Transaction	Text (char[16])
30744	30751	Bay Run Data	4th Alarm in Transaction	Text (char[16])
30752	30759	Bay Run Data	5th Alarm in Transaction	Text (char[16])
30760	30767	Bay Run Data	6th Alarm in Transaction	Text (char[16])
30768	30775	Bay Run Data	7th Alarm in Transaction	Text (char[16])
30776	30783	Bay Run Data	8th Alarm in Transaction	Text (char[16])
30784	30791	Bay Run Data	9th Alarm in Transaction	Text (char[16])
30792	30799	Bay Run Data	10th Alarm in Transaction	Text (char[16])
30800	30807	Bay Run Data	11th Alarm in Transaction	Text (char[16])
30808	30815	Bay Run Data	12th Alarm in Transaction	Text (char[16])
30816	30823	Bay Run Data	13th Alarm in Transaction	Text (char[16])
30824	30831	Bay Run Data	14th Alarm in Transaction	Text (char[16])
30832	30839	Bay Run Data	15th Alarm in Transaction	Text (char[16])
30840	30847	Bay Run Data	16th Alarm in Transaction	Text (char[16])
30848	30855	Bay Run Data	17th Alarm in Transaction	Text (char[16])
30856	30863	Bay Run Data	18th Alarm in Transaction	Text (char[16])
30864	30871	Bay Run Data	19th Alarm in Transaction	Text (char[16])
30872	30879	Bay Run Data	20th Alarm in Transaction	Text (char[16])
30880	30887	Bay Run Data	Transaction End Time (Obsolete - Use 30912)	Text (char[16])
30888	30895	Bay Run Data	Card Data (1st 16 characters)	Text (char[16])
30896	30903	Bay Run Data	Card Data (2nd 16 characters)	Text (char[16])
30904	30911	Bay Run Data	Card Data (3rd 16 characters)	Text (char[16])
30912	30927	Bay Run Data	Transaction End Time	Text (char[32])
30928	30943	Bay Run Data	Transaction Start Time	Text (char[32])
30944	30959	Bay Run Data	Alphanumeric Prompt Response #1	Text (char[32])
30960	30975	Bay Run Data	Alphanumeric Prompt Response #2	Text (char[32])
31104	31107	Bay Run Data	Indicated Volume (IV)	IEEE double precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
31108	31111	Bay Run Data	Gross Volume (GV)	IEEE double precision float
31112	31115	Bay Run Data	Gross @ Std Temp Volume (GST)	IEEE double precision float
31116	31119	Bay Run Data	Gross @ Std Temp & Press (GSV)	IEEE double precision float
31120	31123	Bay Run Data	Mass	IEEE double precision float
31124	31127	Bay Run Data	Additive 1 Volume	IEEE double precision float
31128	31131	Bay Run Data	Additive 2 Volume	IEEE double precision float
31132	31135	Bay Run Data	Additive 3 Volume	IEEE double precision float
31136	31139	Bay Run Data	Additive 4 Volume	IEEE double precision float
31140	31143	Bay Run Data	Additive 5 Volume	IEEE double precision float
31144	31147	Bay Run Data	Additive 6 Volume	IEEE double precision float
31148	31151	Bay Run Data	Additive 7 Volume	IEEE double precision float
31152	31155	Bay Run Data	Additive 8 Volume	IEEE double precision float
31156	31159	Bay Run Data	Additive 9 Volume	IEEE double precision float
31160	31163	Bay Run Data	Additive 10 Volume	IEEE double precision float
31164	31167	Bay Run Data	Additive 11 Volume	IEEE double precision float
31168	31171	Bay Run Data	Additive 12 Volume	IEEE double precision float
31172	31175	Bay Run Data	Additive 13 Volume	IEEE double precision float
31176	31179	Bay Run Data	Additive 14 Volume	IEEE double precision float
31180	31183	Bay Run Data	Additive 15 Volume	IEEE double precision float
31184	31187	Bay Run Data	Additive 16 Volume	IEEE double precision float
31188	31191	Bay Run Data	Additive 17 Volume	IEEE double precision float

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
31192	31195	Bay Run Data	Additive 18 Volume	IEEE double precision float
31196	31199	Bay Run Data	Additive 19 Volume	IEEE double precision float
31200	31203	Bay Run Data	Additive 20 Volume	IEEE double precision float
31204	31207	Bay Run Data	Additive 21 Volume	IEEE double precision float
31208	31211	Bay Run Data	Additive 22 Volume	IEEE double precision float
31212	31215	Bay Run Data	Additive 23 Volume	IEEE double precision float
31216	31219	Bay Run Data	Additive 24 Volume	IEEE double precision float
31220	31223	Bay Run Data	Straight Arm with VRS Recovered Mass	IEEE double precision float
31224	31227	Bay Run Data	Straight Arm with VRS Net Mass	IEEE double precision float
31488		Bay Run Data	Transaction Number	unsigned integer
31489		Bay Run Data	Total Number of Batches	unsigned integer
31490		Bay Run Data	Transaction Start Year	unsigned integer
31491		Bay Run Data	Transaction Start Month	unsigned integer
31492		Bay Run Data	Transaction Start Day	unsigned integer
31493		Bay Run Data	Transaction Start Weekday	unsigned long integer
31494		Bay Run Data	Transaction Start Second	unsigned integer
31495		Bay Run Data	Transaction Start Minute	unsigned integer
31496		Bay Run Data	Transaction Start Hour	unsigned integer
31497		Bay Run Data	Transaction End Year	unsigned integer
31498		Bay Run Data	Transaction End Month	unsigned integer
31499		Bay Run Data	Transaction End Day	unsigned integer
31500		Bay Run Data	Transaction End Weekday	unsigned long integer
31501		Bay Run Data	Transaction End Second	unsigned integer
31502		Bay Run Data	Transaction End Minute	unsigned integer
31503		Bay Run Data	Transaction End Hour	unsigned integer
31552	31553	Bay Run Data	Prompt Response Data 1	unsigned long integer
31554	31555	Bay Run Data	Prompt Response Data 2	unsigned long integer
31556	31557	Bay Run Data	Prompt Response Data 3	unsigned long integer

## Section VI – Map of Function 04 Read Information Register

Modbus Address	Ending Address	Data Set	Data Point	Data Type
31558	31559	Bay Run Data	Prompt Response Data 4	unsigned long integer
31560	31561	Bay Run Data	Prompt Response Data 5	unsigned long integer
31562	31563	Bay Run Data	Preliminary Prompt Response Data 1	unsigned long integer
31564	31565	Bay Run Data	Preliminary Prompt Response Data 2	unsigned long integer
31566	31567	Bay Run Data	Preliminary Prompt Response Data 3	unsigned long integer
31568	31569	Bay Run Data	Preliminary Prompt Response Data 4	unsigned long integer
31570	31571	Bay Run Data	Preliminary Prompt Response Data 5	unsigned long integer
31572	31573	Bay Run Data	Most Recent Bay Transaction Sequence Number	unsigned long integer
31616	31631	Bay Run Data	Alphanumeric Prompt Response #3	Text (char[32])
31632	31647	Bay Run Data	Alphanumeric Prompt Response #4	Text (char[32])
31648	31663	Bay Run Data	Alphanumeric Prompt Response #5	Text (char[32])
31664	31679	Bay Run Data	Database User Field 1 Value for Card	Text (char[32])
31680	31695	Bay Run Data	Database User Field 2 Value for Card	Text (char[32])
31696	31711	Bay Run Data	Database User Field 3 Value for Card	Text (char[32])
31712	31727	Bay Run Data	Database HID Factory Code for Card	Text (char[32])
31728	31743	Bay Run Data	HID Card Number	Text (char[32])

## Section VI – Map of Function 04 Read Information Register

### ***Map of Function 08 – Diagnostics (Loopback Diagnostics)***

<b>Diagnostic Subfunction</b>	<b>Purpose</b>
00	loops the received query back out of the port

<b>Function</b>	<b>Address Range</b>	<b>Note</b>
6, 16	all long integers	all elements must be written in order (lo to hi Modbus address); the target value will be changed upon writing the last element.
6, 16	all floating point (single)	all elements must be written in order (lo to hi Modbus address); the target value will be changed upon writing the last element.
6, 16	all floating point (double)	all elements must be written in order (lo to hi Modbus address); the target value will be changed upon writing the last element.
6, 16	all text strings ("ASCII chars")	all elements must be written in order (lo to hi Modbus address); the target value will be changed upon writing the last element.
all	all	any "offset specification" (product id, etc) are "zero" based (0=1, 1=2, 2=3, etc.) except where noted.

## Section VII – Extended Services

### ***Extended Services (Accessing Transaction Control and Other Features via Modbus)***

The Extended Service feature of the AccuLoad III allows access to functions such as transaction control, display control and stored event/transaction data retrieval. The AccuLoad III Modbus protocol supports the Extended Services features completely, and the requirements to interact with the services are described here.

To use an extended service from Modbus, the following steps are required:

1. Enter the command and any additional data required as specified for that command (the Extended Services packet) into the buffer that starts at holding register 1 (functions 3, 6, and 16, register 1).
2. Enter the length of the above packet in bytes into holding register 0.
3. Enter the command to invoke the service by sending a Force Coil 4096 ON Command (function 5 or 15, address 4096, data "on").
4. Retrieve the result of the service by reading the result packet in the extended service outbound buffer at the start of the input register area (function 4, register 1). The number of bytes in the response packet is located at register 0.

The following tables show the mapping of the Extended Services packets into Modbus register space, and controlling packet submission for processing:

**Modbus Register Map 1 - Functions 3, 6, & 16 - Inbound Packet (command)**

Modbus Holding Register	0	1	2	3	...	513
<b>Data Type</b>	Unsigned integer	Varied - Depends on packet				
<b>Content</b>	Number of valid bytes in packet	<packet> byte 0, byte 1	<packet> byte 2, byte 3	<packet> byte 4, byte 5	<packet>	<packet> byte 1022, byte 1023

**Modbus Register Map 2 - Function 4 - Outbound Packet (command)**

Modbus Input Register	0	1	2	3	...	513
<b>Data Type</b>	Unsigned Int	Varied - Depends on packet				
<b>Content</b>	Number of valid bytes in packet	<packet> byte 0, byte 1	<packet> byte 2, byte 3	<packet> byte 4, byte 5	<packet>	<packet> byte 1022, byte 1023

## Section VII – Extended Services

### Modbus Register Map 3 - Function 1, 5, & 15 - Packet Submission for Processing (command)

<b>Modbus Coil</b>	<b>4096</b>
<b>Content</b>	Writing an "on" to this coil causes the AccuLoad to submit the packet located in the holding register area for processing. The Modbus™ input register area (Function 4) then holds the response packet.

Each packet has the following structure:

Packet Data	
Router Info - 16 bit integer	Service Specific Data (any length up to 1022 bytes)

The "Services Router" (OSI network layer) examines the received packet and routes it to the specific service handler specified. "Router Info" is a 16-bit control word which primarily indicates what application (service) receives the data. The "service specific data" is passed to the applications routine, and its form may vary from service to service. The router info word is broken down as follows:

Router Info Word (16 bit)															
First Byte								Second Byte							
bit 15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
C	U	R	R	S	S	S	S	S	S	S	S	S	S	S	S

- C      Command response flag. 0=Command (host to AccuLoad), 1=Response (AccuLoad to host).
- U      Unused; reserved for future use. Always set this to zero.
- R      Router status. Command packets should always set this to binary 00 (normal packet). Responses may have this set to binary 00 (normal response), binary 01 (service specified doesn't exist) or binary 10 (router error). Any response other than binary 00 means that no service specific data follows. Binary 11 is reserved for future use.
- S      12-bit number referring to the specific service (application layer) routine (see table below).

## Section VII – Extended Services

The 12-bit service numbers are typically unique among different models that support Extended Services. A section of service codes (0x000-0x0FF) are reserved for services that must be identical among all instruments supporting extended services. Service codes 0x100 and above must be unique, even among different model instruments. The following table lists the service codes for the AccuLoad III ALS1 and ALD1. (Note: All other service codes are considered reserved.)

Service Code	Model(s)	Function
0x000	All	Unit information: model number, options, serial number, etc.
0x001	All	Read clock
0x002	All	Set clock
0x0400	AccuLoad III-X	Transaction control
0x0401	AccuLoad III-X	Display control (prompting, etc)
0x0402	AccuLoad III-X	Read from event log
0x0403	AccuLoad III-X	Search event log
0x0404	AccuLoad III-X	Read from transaction log
0x0405	AccuLoad III-X	Search transaction log
0x0406	AccuLoad III-X	Read audit trail
0x0407	AccuLoad III-X	Search audit trail



## Section VII – Extended Services

All of the AccuLoad III responses will have at least one 16-bit unsigned integer response code, possibly followed by more data (herein referred to as the "standard response code"). The response codes are broken down into four classes, as follows:

Response Code Range	Class
0x0000 – 0x3fff	Normal response; command was executed.
0x4000 – 0x7fff	Warning response; command was executed; instrument communications status has not changed; a notable event occurred when the command was executed.
0x8000 – 0xbfff	Critical response; command was not executed; instrument communications status has changed.
0xc000 – 0xffff	Fatal response; command was not executed; instrument communications status has changed and recovery is necessary to continue.

### **Standard Response Codes**

Error Message	Error Code (hexadecimal)
No error	0x0000
Download successful	0x0001
Empty config	0x8000
Block not found	0x8001
Bad message format	0x8002
Block out of sequence	0x8003
Invalid flash data	0x8004
Target buffer too small	0x8005
Bad CRC	0x8006
No config avail	0x8007
Download already in progress	0x8008
Bad database spec	0x8009
In program mode	0x800a
Released	0x800b
Bad value	0x800c
Flow active	0x800d
No transactions ever done	0x800e
Operation not allowed	0x800f
Wrong control mode	0x8010
Transaction in progress	0x8011
Alarm active	0x8012
Storage full	0x8013

## Section VII – Extended Services

Error Message	Error Code (hexadecimal)
Operation out of sequence	0x8014
Power fail during transaction	0x8015
Authorized	0x8016
Program code not used	0x8017
Disp key in remote control	0x8018
Ticket not in printer	0x8019
No key data pending	0x801a
No transaction in progress	0x801b
Option not installed	0x801c
Start after stop delay	0x801d
Permissive delay active	0x801e
Print request pending	0x801f
No meter enabled	0x8020
Must be in program mode	0x8021
Ticket alarm during transaction	0x8022
Volume type not selected	0x8023
Exactly one rec must be enabled	0x8024
Batch limit reached	0x8025
Checking entries	0x8026
Prod rec add not assigned	0x8027
Must use mini protocol	0x8028
Buffer error	0x8029
Keypad locked	0x802a
Data recall error	0x802b
Internal error	0x802c
Transmit reply	0x802d
Unknown error	0x802e
Unused batch	0x802f
Packing Memory (wait, and try again)	0x8030
Data not available	0x8031
Card In Required	0x8032
Too Many Shared Additives	0x8033
Max Active Arms in Use	8x8034
Transaction Not Standby	0x8035
Swing Arm Out of Position	0x8036
No Current Batch on Arm	0x8037

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Error Message	Error Code (hexadecimal)
Internal flash error	0xc000
Flash has overrun	0xc001
Internal buffer error	0xc002
Buffer allocation error	0xc003
Buffer overrun	0xc004
Flash erase error	0xc005
Flash write error	0xc006

### ***0x0000 Read Unit Information***

This command returns standard unit information such as manufacturer code, model number, and serial number (if available). This command is included so the host (or other units in a shared protocol) may determine what type of unit is occupying a certain address on the comm port.

#### Command Data:

Modbus Address	Example Data	Data Type	Description
0	2	unsigned	Size of Extended Services Packet
1	0x0000	unsigned	Router Word, "Read unit information" service

#### Response Data:

Modbus Address	Example Data	Data Type	Description
0	30	unsigned	Size of Extended Services Packet
1	0x8000	unsigned	Router Word, "Read unit information" service
2	0x0000	unsigned	Standard Response Code
3	0x0001	unsigned	Unit Manufacturer Code (Smith=0x0001)
4	0x0011	unsigned	Unit Model Code (ALIII-D=0x0011) (ALIII-X=0x0013)
5 - 12	""	text	Unit Serial Number (none in ALIII)
13	1002 = 10.02	unsigned	Firmware Revision
14 - 15	0xA4E3025A	unsigned long	ROM CRC-32
16 -			Reserved for future additions

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### ***0x0001 Read Clock***

This command returns the time and date indicated by the internal clock.

Command Data:

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	2	unsigned	Size of Extended Services Packet
1	0x0001	unsigned	Router Word, "Read clock" service

Response Data:

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	18	unsigned	Size of Extended Services Packet
1	0x8001	unsigned	Router Word, "Read clock" service
2	0x0000	unsigned	Standard Response Code
3	2000	unsigned	Year
4	6	unsigned	Month
5	4	unsigned	Day
6	0	unsigned	(reserved)
7	59	unsigned	Seconds
8	31	unsigned	Minutes
8	21	unsigned	Hours
9	0	unsigned	(reserved)

### ***0x0002 Set Clock***

This command sets the time/date in the internal clock:

Command Data:

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	18	unsigned	Size of Extended Services Packet
1	0x0002	unsigned	Router Word, "Set clock" service
2	2009	unsigned	Year
3	6	unsigned	Month
4	4	unsigned	Day
5	0	unsigned	(reserved)
6	59	unsigned	Seconds
7	31	unsigned	Minutes

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Modbus Address	Example Data	Data Type	Description
8	21	unsigned	Hours
9	0	unsigned	(reserved)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x8001	unsigned	Router Word, "Set clock" service
2	0x0000	unsigned	Standard Response Code

### ***0x0400 Transaction Control***

This service allows transactions to be controlled via communications. There are several different subcommands (variations).

Variation #1 Command Data (authorize transaction, equivalent to AccuLoad III style commands AP and AU):

The AP command authorizes the transaction to the Preset Prompt, and the AU command authorizes the transaction and leaves the AccuLoad at the Ready Prompt. Both authorizations can be used with or without authorizing additives.

Modbus Address	Example Data	Data Type	Description
0	10	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	0	unsigned	Sub-command (0=variation 1)
3	1	unsigned	Prompting Option; 0=wait for set key, 1=show preset screen now
4	-1	long integer	Additive Selection; bits 0-23 indicate injector selections 1-24, 0=off, 1=on. Value of -1 means "use all injectors programmed"

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### Variation #2 Command Data (set transaction, equivalent to AccuLoad III style command TA):

The TA command sets the maximum transaction volume. Units must correspond to what is programmed in the AccuLoad.

Modbus Address	Example Data	Data Type	Description
0	8	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	1	unsigned	Sub-command (1=variation 2)
3 - 4	100.0	float	preset volume

### Variation #3 Command Data (allocate recipes, equivalent to AccuLoad III style command AB):

The AB command allocates the recipes that will be allowed for that transaction.

Modbus Address	Example Data	Data Type	Description
0	12	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	2	unsigned	Sub-command (2=variation 3)
3 - 4	0x00000021	unsigned long	Recipe selections; bits 0-31 enable recipes 1-32 (0=disabled, 1=enabled)
5 - 6	0x00000000	unsigned long	Recipe selections; bits 32-49 enable recipes 33-50 (0=disabled, 1=enabled). Bits 27-31 are reserved for future use.

### Variation #4 Command Data (set batch, equivalent to AccuLoad III style command SB):

The SB command authorizes the batch and presets the volume for that batch. Additives can also be selected with the SB command. The preset value must not exceed the programmed maximum batch size and must not be below the programmed minimum batch size. A batch size of 0 allows the driver to enter the batch size.

Modbus Address	Example Data	Data Type	Description
0	12	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	3	unsigned	Sub-command (3=variation 4)
3 - 4	250.0	float	Preset Volume
5 - 6	0X 0000 0005	unsigned long	Additive selection; bits 0-23 enable injectors 1-24 (0=disabled, 1=enabled). Bits 24-31 are reserved for future use.

### Variation #5 Command Data (end batch, equivalent to AccuLoad III style command EB):

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The EB command cancels the remaining batch volume and ends the batch, closing the valve if it has not already been commanded to do so.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	4	unsigned	Sub-command (4=variation 5)

Variation #6 Command Data (end transaction, equivalent to AccuLoad III style command ET):

The ET command ends the transaction (removes authorization), and flags the transaction as complete.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	5	unsigned	Sub-command (5=variation 6)

Variation #7 Command Data (remote start, equivalent to AccuLoad III style command SA):

The SA command remotely starts the AccuLoad III. It is the same as pressing the "START" key on the AccuLoad.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	6	unsigned	Sub-command (6=variation 7)

Variation #8 Command Data (remote stop, equivalent to AccuLoad III style command SP):

The SP command instructs the AccuLoad III to stop, halting product delivery. The valve and pump are shut down whether flow is present or not. If a batch is in progress, the "START" key or the Remote Start command must be used to continue the batch.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	7	unsigned	Sub-command (7=variation 8)

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### Response Data for Variations 1-8:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	4	unsigned	Sub-command (4=variation 5)

### Variation #9 Command Data (read status flags):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	8	unsigned	Sub-command (8=variation 9)

### Response Data for variation 9: Flags: 0=False, non-zero=True

Modbus Address	Example Data	Data Type	Description
0	38	unsigned	Size of Extended Services Packet
1	0x8300	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	8	unsigned	Sub-command (8=variation 9)
4	1	unsigned	Authorized Flag
5	1	unsigned	Released Flag (valve commanded to open)
6	1	unsigned	Transaction in Progress Flag
7	0	unsigned	Batch Done Flag
8	0	unsigned	Transaction Done Flag
9	0	unsigned	Start/Stop Delay Active Flag
10	0	unsigned	Valve Open Delay Active Flag
11	1	unsigned	Product Flowing Flag
12	0	unsigned	Injectors Authorized via Communications Flag
13	0	unsigned	Proving in Progress Flag
14	0	unsigned	Alarm Active Flag
15	0	unsigned	In Program Mode Flag



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Modbus Address	Example Data	Data Type	Description
16	0	unsigned	Checking Program Mode Parameters Flag
17	1	unsigned	Program Value Changed Flag
18	1	unsigned	Power Fail Occurred Flag
19	0	unsigned	Transaction Report Queued for Printing Flag
20	A	unsigned	Swing Arm Position
21	0	unsigned	In Standby Mode
22	0	unsigned	Storage Full
23	0	unsigned	Transaction Lock in Effect

Variation #10 Clear transaction done flag (and batch done flag):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	9	unsigned	Sub-command (9=variation 10)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	9	unsigned	Sub-command (9=variation 10)

Variation #11 Clear batch done flag:

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	10	unsigned	Sub-command (10=variation 11)

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	10	unsigned	Sub-command (10=variation 11)

Variation #12 Clear Power Fail Flag:

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	11	unsigned	Sub-command (11=variation 12)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	11	unsigned	Sub-command (11=variation 12)

Variation #13 Clear program parameter changed flag:

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	12	unsigned	Sub-command (12=variation 13)

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	12	unsigned	Sub-command (12=variation 13)

Variation #14 Command Data (remote stop on an arm, equivalent to AccuLoad style command ST):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	13	unsigned	Sub-command (13=variation 14)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	13	unsigned	Sub-command (13=variation 14)

Variation #15 Command Data (set batch fixed, equivalent to AccuLoad style command SF):

Modbus Address	Example Data	Data Type	Description
0	12	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	14	unsigned	Sub-command (14=variation 15)
3 - 4	2000	float	Preset Volume
5 - 6	0X 0000 0005	Long integer	Additive selection; Bits 0-23 enable injectors 1-24 (0=disabled, 1=enabled). Bits 24-31 are reserved for future use.

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	14	unsigned	Sub-command (14=variation 15)

Variation #16 Command Data (Clear Standby Mode Status and Resume Communications, equivalent to Accu-Load style command "RE SA"):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	15	unsigned	Sub-command (15=variation 16)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	15	unsigned	Sub-command (15=variation 16)

Variation #17 Command Data (Clear Standby Transaction Lock, equivalent to AccuLoad style command CT):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	16	unsigned	Sub-command (16=variation 17)

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	16	unsigned	Sub-command

Variation #18 Command Data (Request recipe number, equivalent to AccuLoad style command RN):

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	17	unsigned	Sub-command (17=variation 18)
3	2	unsigned	Recipe Number

Variation #19 Command Data (print report to printer, equivalent to AccuLoad style command PP ST):

Modbus Address	Example Data	Data Type	Description
0	12	unsigned	Size of Extended Services Packet
1	0x0400	unsigned	Router Word, "Transaction Control" service
2	18	unsigned	Sub-command (18=variation 19)

Response Data for Variations 18 and 19:

Modbus Address	Example Data	Data Type	Description
0	6 or 12	unsigned	Size of Extended Services Packet
1	0x8400	unsigned	Router Word, "Transaction Control" service
2	0x0000	unsigned	Standard Return Code
3	17 or 18	unsigned	Sub-command

### ***0x0401 Display Control***

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This service allows the display to be controlled via comms. There are several different subcommands (variations).

Variation #1 Command Data (write to display, equivalent to AccuLoad III style commands WA, WD, WP, WQ, and WX):

Modbus Address	Example Data	Data Type	Description
0	32	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	0	unsigned	Sub-command (0=variation 1)
3	1	unsigned	Display Line number (1 or 2) – A command must be sent to display line 1 before an additional command may be sent to display line 2.
4	60	unsigned	Prompt Timeout (in seconds, 0=no timeout) – allows the prompt to "expire" after a certain amount of time if the operator ignores the prompt.
5	0	unsigned	Wait for Set Key Pressed Before Displaying Prompt; 0=no, 1=yes. Selecting "yes" here prevents the prompt from showing immediately; the prompt is held up until the operator presses the SET key.
6	5	unsigned	Expected Response Length; 0=no response (display text only). 1-20 = number of characters that must be entered. Add 40 to the character count if entering fewer characters is permissible.

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Modbus Address	Example Data	Data Type	Description
6	5	unsigned	Expected Response Length; 0=no response (display text only). 1-20 = number of characters that must be entered. Add 40 to the character count if entering fewer characters is permissible.
7	93	unsigned	Operator Entry Procedure: 38 = operator enters number and then any function key but CLEAR or STOP to terminate entry. 91 = ENTER must be pressed before entering a number, any function key but CLEAR or STOP to terminate entry. 93 = ENTER must be pressed before entering a number, ENTER must be pressed to terminate entry.
8	1	unsigned	Security Echo; 0=normal character echo displayed, 1=security character echo "X" displayed
9 - 16	"Enter Truck ID"	text	Text Message to Display. Messages that are too long will be truncated on the display.

Variation #1 Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	0	unsigned	Sub-command (0=variation 1)

Variation #2 Command Data (release the keypad and display, equivalent to AccuLoad III style command DA):

The DA command returns the control of the keypad and display to the AccuLoad III.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	1	unsigned	Sub-command (1=variation 2)

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Variation #2 Response Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	1	unsigned	Sub-command (1=variation 2)

Variation #3 Command Data (get last key that was pressed, equivalent to AccuLoad III style command GK):

The GK command retrieves the last key that was pressed at the AccuLoad III keypad. If no key is pressed, the AccuLoad III-X returns a "no response."

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	2	unsigned	Sub-command (2=variation 3)

Variation #3 Response Data:

Modbus Address	Example Data	Data Type	Description
0	24	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	2	unsigned	Sub-command (2=variation 3)
4 - 12	"14397E1"	text	ASCII Characters, string may be null terminated (\0). Last two characters indicate the key that was pressed to terminate prompt entry: "E1"=ENTER, "P1"=PRINT, "A1"=START, "B1"=SET, "C1"=CLEAR, "S1"=STOP



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### Variation #4 Command Data (read keypad data, equivalent to AccuLoad III style command RK):

The RK command instructs the AccuLoad to transmit any pending data entered at the keypad to the requesting device.

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	3	unsigned	Sub-command (3=variation 4)

### Variation #4 Response Data:

Modbus Address	Example Data	Data Type	Description
0	28	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	3	unsigned	Sub-command (3=variation 4)
4 - 14	"A1"	text	ASCII Characters, string may be null terminated (\0). "0"- "9"=keys 0-9, "E1"=ENTER, "P1"=PRINT, "A1"=START, "B1"=SET, "C1"=CLEAR, "S1"=STOP

### Variation #5 Command Data (read status flags):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	4	unsigned	Sub-command (4=variation 5)

Response Data: Flags: 0=False, non-zero=True

Modbus Address	Example Data	Data Type	Description
0	26	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	4	unsigned	Sub-command (4=variation 5)
4	0	unsigned	Authorized Flag
5	1	unsigned	Keypad Data Pending Flag
6	0	unsigned	Delayed Prompt in Effect Flag

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Modbus Address	Example Data	Data Type	Description
7	0	unsigned	Display Message Timeout Flag
8	0	unsigned	Alarm Active Flag
9	0	unsigned	In Program Mode Flag
10	0	unsigned	Checking Program Mode Parameters Flag
11	1	unsigned	Program Value Changed Flag
12	0	unsigned	Power Fail Occurred Flag
13	0	unsigned	Transaction Report Queued for Printing Flag

Variation #6 Command Data (switch to full screen mode):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	5	unsigned	Sub-command (5=variation 6)

Response Data: Flags: 0=False, non-zero=True

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	5	unsigned	Sub-command (5=variation 6)

Variation #7 Command Data (switch to Split Screen Mode):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	6	unsigned	Sub-command (6=variation 7)

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Response Data: Flags: 0=False, non-zero=True

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	6	unsigned	Sub-command (6=variation 7)

Variation #8 Command Data (Force swing arm to opposite MMI):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0401	unsigned	Router Word, "Display Control" service
2	7	unsigned	Side to position arm; either 65 (0x41) for MMI "A" or 66 (0x42) for MMI "B". Sub-command (7=variation 8)

Response Data: Flags: 0=False, non-zero=True

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x8401	unsigned	Router Word, "Display Control" service
2	0x0000	unsigned	Standard Return Code
3	7	unsigned	Sub-command (7=variation 8)

### ***0x0402 Read Event Log***

This service reads a record from the specified event log stored in nonvolatile storage.

Command Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x0402	unsigned	Router Word, "Read Event Log" service
2 - 3	87921	unsigned long	Sequence Number of Event

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	114	unsigned	Size of Extended Services Packet
1	0x8402	unsigned	Router Word, "Read Event Log" service
2	0x0000	unsigned	Standard Response Code
3 - 47	"Transaction Ended Arm 2 - Gasoline 89 Transaction #6"	text	Message Text; may be null terminated (\0)
48	0	unsigned	(reserved)
49	2000	unsigned	Log Year
50	1	unsigned	Log Month
51	25	unsigned	Log Day
52	0	unsigned	(reserved)
53	47	unsigned	Log Seconds
54	21	unsigned	Log Minutes
55	16	unsigned	Log Hours
56	0	unsigned	(reserved)
57	0	unsigned	(reserved)

### ***0x0403 Search Event Log***

This service searches the event log for the latest entry, the oldest entry still available in memory, or the most recent entry that falls before a given date and time. The service returns the sequence number of the entry.

Variation #1 Command Data (returns most recent record number):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0403	unsigned	Router Word, "Search Event Log" service
2	1	unsigned	Sub-command (1=variation 1)

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Variation #2 Command Data (returns oldest available record number):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0403	unsigned	Router Word, "Search Event Log" service
2	2	unsigned	Sub-command (2=variation 2)

Variation #3 Command Data (searches on specified date and time):

Modbus Address	Example Data	Data Type	Description
0	20	unsigned	Size of Extended Services Packet
1	0x0403	unsigned	Router Word, "Search Event Log" service
2	3	unsigned	Sub-command (3=variation 3)
3	2000	unsigned	Log Year
4	4	unsigned	Log Month
5	12	unsigned	Log Day
6	0	unsigned	(reserved)
7	0	unsigned	Log Seconds
8	0	unsigned	Log Minutes
9	14	unsigned	Log Hours
10	0	unsigned	(reserved)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	8	unsigned	Size of Extended Services Packet
1	0x8403	unsigned	Router Word, "Search Event Log" service
2	0x0000	unsigned	Standard Response Code
3 - 4	93543	unsigned long	Sequence Number of Log Entry

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### **0x0404 Read Transaction Log**

This command retrieves the transaction specified by the sequence number from nonvolatile storage and places the data in the extended service response buffer in the following order. The data can then be read from the buffer by the host.

Command Data:

Modbus Address	Example Data	Data Type	Description
0	8	unsigned	Size of Extended Services Packet
1	0x0404	unsigned	Router Word, "Read Transaction Log" service
2 - 3	84118	unsigned long	Sequence number of transaction log entry
4	0	unsigned	Command code; 0=transaction data, 1-10=batch data, batch 1-10, 11=bay non-resettable totals, 12=user registers

Response Data, command code 0 (transaction data):

Modbus Address	Description	Data Type
5	Transaction number	Unsigned integer
6	Number of batches delivered	Unsigned integer
7	Transaction end time (year)	Unsigned integer
8	Transaction end time (month)	Unsigned integer
9	Transaction end time (day)	Unsigned integer
10	Transaction end time (day of week)	Unsigned integer
11	Transaction end time (seconds)	Unsigned integer
12	Transaction end time (minutes)	Unsigned integer
13	Transaction end time (hours)	Unsigned integer
14	Transaction end time (reserved)	Unsigned integer
15	Prompt #1 response	Unsigned long integer
17	Prompt #2 response	Unsigned long integer
19	Prompt #3 response	Unsigned long integer
21	Prompt #4 response	Unsigned long integer
23	Prompt #5 response	Unsigned long integer
25	Number of transaction alarms	Unsigned integer
26	Transaction Alarm 1 log	char[10]
31	Transaction Alarm 2 log	char[10]
36	Transaction Alarm 3 log	char[10]
41	Transaction Alarm 4 log	char[10]

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Modbus Address	Description	Data Type
46	Transaction Alarm 5 log	char[10]
51	Transaction Alarm 6 log	char[10]
56	Transaction Alarm 7 log	char[10]
61	Transaction Alarm 8 log	char[10]
66	Transaction Alarm 9 log	char[10]
71	Transaction Alarm 10 log	char[10]
76	Transaction Alarm 11 log	char[10]
81	Transaction Alarm 12 log	char[10]
86	Transaction Alarm 13 log	char[10]
91	Transaction Alarm 14 log	char[10]
96	Transaction Alarm 15 log	char[10]
101	Transaction Alarm 16 log	char[10]
106	Transaction Alarm 17 log	char[10]
111	Transaction Alarm 18 log	char[10]
116	Transaction Alarm 19 log	char[10]
121	Transaction Alarm 20 log	char[10]
126	Transaction average meter factor	float
128	Transaction average temperature	float
130	Transaction average density	float
132	Transaction average pressure	float
134	Transaction average CTL	float
136	Transaction average CPL	float
138	Transaction Additive 1 volume	double
142	Transaction Additive 2 volume	double
146	Transaction Additive 3 volume	double
150	Transaction Additive 4 volume	double
154	Transaction Additive 5 volume	double
158	Transaction Additive 6 volume	double
162	Transaction Additive 7 volume	double
166	Transaction Additive 8 volume	double
170	Transaction Additive 9 volume	double
174	Transaction Additive 10 volume	double
178	Transaction Additive 11 volume	double
182	Transaction Additive 12 volume	double
186	Transaction Additive 13 volume	double
190	Transaction Additive 14 volume	double

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Modbus Address	Description	Data Type
194	Transaction Additive 15 volume	double
198	Transaction Additive 16 volume	double
202	Transaction Additive 17 volume	double
206	Transaction Additive 18 volume	double
210	Transaction Additive 19 volume	double
214	Transaction Additive 20 volume	double
218	Transaction Additive 21 volume	double
222	Transaction Additive 22 volume	double
226	Transaction Additive 23 volume	double
230	Transaction Additive 24 volume	double
234	Transaction raw volume	double
238	Transaction gross volume	double
242	Transaction GST volume	double
246	Transaction GSV volume	double
250	Transaction mass	double
254	Transaction Product 1 ending non-resettable raw totalizer	double
258	Transaction Product 1 ending non-resettable gross totalizer	double
262	Transaction Product 1 ending non-resettable GST totalizer	double
266	Transaction Product 1 ending non-resettable GSV totalizer	double
270	Transaction Product 1 ending non-resettable mass totalizer	double
274	Transaction Product 2 ending non-resettable raw totalizer	double
278	Transaction Product 2 ending non-resettable gross totalizer	double
282	Transaction Product 2 ending non-resettable GST totalizer	double
286	Transaction Product 2 ending non-resettable GSV totalizer	double
290	Transaction Product 2 ending non-resettable mass totalizer	double
294	Transaction Product 3 ending non-resettable raw totalizer	double
298	Transaction Product 3 ending non-resettable gross totalizer	double



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Modbus Address	Description	Data Type
302	Transaction Product 3 ending non-resettable GST totalizer	double
306	Transaction Product 3 ending non-resettable GSV totalizer	double
310	Transaction Product 3 ending non-resettable mass totalizer	double
314	Transaction Product 4 ending non-resettable raw totalizer	double
318	Transaction Product 4 ending non-resettable gross totalizer	double
322	Transaction Product 4 ending non-resettable GST totalizer	double
326	Transaction Product 4 ending non-resettable GSV totalizer	double
330	Transaction Product 4 ending non-resettable mass totalizer	double
334	Transaction Product 5 ending non-resettable raw totalizer	double
338	Transaction Product 5 ending non-resettable gross totalizer	double
342	Transaction Product 5 ending non-resettable GST totalizer	double
346	Transaction Product 5 ending non-resettable GSV totalizer	double
350	Transaction Product 5 ending non-resettable mass totalizer	double
354	Transaction Product 6 ending non-resettable raw totalizer	double
358	Transaction Product 6 ending non-resettable gross totalizer	double
362	Transaction Product 6 ending non-resettable GST totalizer	double
366	Transaction Product 6 ending non-resettable GSV totalizer	double
370	Transaction Product 6 ending non-resettable mass totalizer	Double
374	Transaction End Time (text)	Char[22]
385	Transaction Start Time (text)	Char[22]
396	Alphanumeric Prompt Response #1	Char[20]
406	Alphanumeric Prompt Response #2	Char[20]
416	Alphanumeric Prompt Response #3	Char[20]
426	Alphanumeric Prompt Response #4	Char[20]

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<b>Modbus Address</b>	<b>Description</b>	<b>Data Type</b>
436	Alphanumeric Prompt Response #5	Char[20]
446	Driver Card Raw Card Data	Char[48]
470	Driver Card Field 1	Char[32]
486	Driver Card Field 2	Char[32]
502	Driver Card Field 3	Char[32]
518	Driver Card HID Factory Code	Char[32]
534	Driver Card HID Number	Char[32]

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Response Data, command code 1-10 (batch data, 1-10 is batch number):

Modbus Address	Description	Data Type
5	Product delivered	Unsigned integer
6	Recipe delivered	Unsigned integer
7	HM class product	Unsigned integer
8	Additives delivered (bit map)	Unsigned long integer
10	Batch average flow rate	Float
12	Batch average meter factor	Float
14	Batch average temperature	Float
16	Batch average density	Float
18	Batch average pressure	Float
20	Batch average CTL	Float
22	Batch average CPL	Float
24	Meter pulses	Double
28	Batch raw volume	Double
32	Batch gross volume	Double
36	Batch GST volume	Double
40	Batch GSV volume	Double
44	Batch mass	Double
48	Batch Additive 1 Volume	Double
52	Batch Additive 2 Volume	Double
56	Batch Additive 3 Volume	Double
60	Batch Additive 4 Volume	Double
64	Batch Additive 5 Volume	Double
68	Batch Additive 6 Volume	Double
72	Batch Additive 7 Volume	Double
76	Batch Additive 8 Volume	Double
80	Batch Additive 9 Volume	Double
84	Batch Additive 10 Volume	Double
88	Batch Additive 11 Volume	Double
92	Batch Additive 12 Volume	Double
96	Batch Additive 13 Volume	Double
100	Batch Additive 14 Volume	Double
104	Batch Additive 15 Volume	Double
108	Batch Additive 16 Volume	Double
112	Batch Additive 17 Volume	Double

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Modbus Address	Description	Data Type
116	Batch Additive 18 Volume	Double
120	Batch Additive 19 Volume	Double
124	Batch Additive 20 Volume	Double
128	Batch Additive 21 Volume	Double
132	Batch Additive 22 Volume	Double
136	Batch Additive 23 Volume	Double
140	Batch Additive 24 Volume	Double
144	Number of batch alarms	Unsigned integer
145	Batch Alarm 1 log	Char[8]
149	Batch Alarm 2 log	Char[8]
153	Batch Alarm 3 log	Char[8]
157	Batch Alarm 4 log	Char[8]
161	Batch Alarm 5 log	Char[8]
165	Batch Alarm 6 log	Char[8]
169	Batch Alarm 7 log	Char[8]
173	Batch Alarm 8 log	Char[8]
177	Batch Alarm 9 log	Char[8]
181	Batch Alarm 10 log	Char[8]
185	Batch product 1 average flow rate	Float
187	Batch product 1 average meter factor	Float
189	Batch product 1 average temperature	Float
191	Batch product 1 average density	Float
193	Batch product 1 average pressure	Float
195	Batch product 1 average vapor pressure	Float
197	Batch product 1 average CTL	Float
199	Batch product 1 average CPL	Float
201	Batch product 1 average CCF	Float
203	Batch product 1 reference density	Float
205	Batch product 1 relative density	Float
207	Batch product 1 API density	Float
209	Batch product 1 meter pulses	Double
213	Batch product 1 raw volume	Double
217	Batch product 1 gross volume	Double
221	Batch product 1 GST volume	Double
225	Batch product 1 GSV volume	Double
229	Batch product 1 mass	Double

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Modbus Address	Description	Data Type
233	Batch product 2 average flow rate	Float
235	Batch product 2 average meter factor	Float
237	Batch product 2 average temperature	Float
239	Batch product 2 average density	Float
241	Batch product 2 average pressure	Float
243	Batch product 2 average vapor pressure	Float
245	Batch product 2 average CTL	Float
247	Batch product 2 average CPL	Float
249	Batch product 2 average CCF	Float
251	Batch product 2 reference density	Float
253	Batch product 2 relative density	Float
255	Batch product 2 API density	Float
257	Batch product 2 meter pulses	Double
261	Batch product 2 raw volume	Double
265	Batch product 2 gross volume	Double
269	Batch product 2 GST volume	Double
273	Batch product 2 GSV volume	Double
277	Batch product 2 mass	Double
281	Batch product 3 average flow rate	Float
283	Batch product 3 average meter factor	Float
285	Batch product 3 average temperature	Float
287	Batch product 3 average density	Float
289	Batch product 3 average pressure	Float
291	Batch product 3 average vapor pressure	Float
293	Batch product 3 average CTL	Float
295	Batch product 3 average CPL	Float
297	Batch product 3 average CCF	Float
299	Batch product 3 reference density	Float
301	Batch product 3 relative density	Float
303	Batch product 3 API density	Float
305	Batch product 3 meter pulses	Double
309	Batch product 3 raw volume	Double
313	Batch product 3 gross volume	Double
317	Batch product 3 GST volume	Double
321	Batch product 3 GSV volume	Double
325	Batch product 3 mass	Double

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Modbus Address	Description	Data Type
329	Batch product 4 average flow rate	Float
331	Batch product 4 average meter factor	Float
333	Batch product 4 average temperature	Float
335	Batch product 4 average density	Float
337	Batch product 4 average pressure	Float
339	Batch product 4 average vapor pressure	Float
341	Batch product 4 average CTL	Float
343	Batch product 4 average CPL	Float
345	Batch product 4 average CCF	Float
347	Batch product 4 reference density	Float
349	Batch product 4 relative density	Float
351	Batch product 4 API density	Float
353	Batch product 4 meter pulses	Double
357	Batch product 4 raw volume	Double
361	Batch product 4 gross volume	Double
365	Batch product 4 GST volume	Double
369	Batch product 4 GSV volume	Double
373	Batch product 4 mass	Double
377	Batch product 5 average flow rate	Float
379	Batch product 5 average meter factor	Float
381	Batch product 5 average temperature	Float
383	Batch product 5 average density	Float
385	Batch product 5 average pressure	Float
387	Batch product 5 average vapor pressure	Float
389	Batch product 5 average CTL	Float
391	Batch product 5 average CPL	Float
393	Batch product 5 average CCF	Float
395	Batch product 5 reference density	Float
397	Batch product 5 relative density	Float
399	Batch product 5 API density	Float
401	Batch product 5 meter pulses	Double
405	Batch product 5 raw volume	Double
409	Batch product 5 gross volume	Double
413	Batch product 5 GST volume	Double
417	Batch product 5 GSV volume	Double
421	Batch product 5 mass	Double

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Modbus Address	Description	Data Type
425	Batch product 6 average flow rate	Float
427	Batch product 6 average meter factor	Float
429	Batch product 6 average temperature	Float
431	Batch product 6 average density	Float
433	Batch product 6 average pressure	Float
435	Batch product 6 average vapor pressure	Float
437	Batch product 6 average CTL	Float
439	Batch product 6 average CPL	Float
441	Batch product 6 average CCF	Float
443	Batch product 6 reference density	Float
445	Batch product 6 relative density	Float
447	Batch product 6 API density	Float
449	Batch product 6 meter pulses	Double
453	Batch product 6 raw volume	Double
457	Batch product 6 gross volume	Double
461	Batch product 6 GST volume	Double
465	Batch product 6 GSV volume	Double
469	Batch product 6 mass	Double
473	Batch last density sample	Float
475	Batch contaminant percentage	Float
477	Batch load arm (for bay-based transactions)	Unsigned integer
<b>478</b>	<b>Additive 1 Flow Control Inj GV volume</b>	<b>Double</b>
<b>482</b>	<b>Additive 1 Flow Control Inj GST volume</b>	<b>Double</b>
<b>486</b>	<b>Additive 1 Flow Control Inj Mass</b>	<b>Double</b>
<b>490</b>	<b>Additive 2 Flow Control Inj GV volume</b>	<b>Double</b>
<b>494</b>	<b>Additive 2 Flow Control Inj GST volume</b>	<b>Double</b>
<b>498</b>	<b>Additive 2 Flow Control Inj Mass</b>	<b>Double</b>
<b>502</b>	<b>Additive 3 Flow Control Inj GV volume</b>	<b>Double</b>
<b>506</b>	<b>Additive 3 Flow Control Inj GST volume</b>	<b>Double</b>
<b>510</b>	<b>Additive 3 Flow Control Inj Mass</b>	<b>Double</b>
<b>514</b>	<b>Additive 4 Flow Control Inj GV volume</b>	<b>Double</b>
<b>518</b>	<b>Additive 4 Flow Control Inj GST volume</b>	<b>Double</b>
<b>522</b>	<b>Additive 4 Flow Control Inj Mass</b>	<b>Double</b>

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Response Data, Command Code 11 (bay non-resettable totals):

Modbus Address	Description	Data Type
5	Arm 1 Product 1 IV Non-resettable Totalizer	Double
9	Arm 1 Product 1 GV Non-resettable Totalizer	Double
13	Arm 1 Product 1 GST Non-resettable Totalizer	Double
17	Arm 1 Product 1 GSV Non-resettable Totalizer	Double
21	Arm 1 Product 1 Mass Non-resettable Totalizer	Double
25	Arm 1 Product 2 IV Non-resettable Totalizer	Double
29	Arm 1 Product 2 GV Non-resettable Totalizer	Double
33	Arm 1 Product 2 GST Non-resettable Totalizer	Double
37	Arm 1 Product 2 GSV Non-resettable Totalizer	Double
41	Arm 1 Product 2 Mass Non-resettable Totalizer	Double
45	Arm 1 Product 3 IV Non-resettable Totalizer	Double
49	Arm 1 Product 3 GV Non-resettable Totalizer	Double
53	Arm 1 Product 3 GST Non-resettable Totalizer	Double
57	Arm 1 Product 3 GSV Non-resettable Totalizer	Double
61	Arm 1 Product 3 Mass Non-resettable Totalizer	Double
65	Arm 1 Product 4 IV Non-resettable Totalizer	Double
69	Arm 1 Product 4 GV Non-resettable Totalizer	Double
73	Arm 1 Product 4 GST Non-resettable Totalizer	Double
77	Arm 1 Product 4 GSV Non-resettable Totalizer	Double
81	Arm 1 Product 4 Mass Non-resettable Totalizer	Double
85	Arm 1 Product 5 IV Non-resettable Totalizer	Double
89	Arm 1 Product 5 GV Non-resettable Totalizer	Double
93	Arm 1 Product 5 GST Non-resettable Totalizer	Double
97	Arm 1 Product 5 GSV Non-resettable Totalizer	Double
101	Arm 1 Product 5 Mass Non-resettable Totalizer	Double
105	Arm 1 Product 6 IV Non-resettable Totalizer	Double
109	Arm 1 Product 6 GV Non-resettable Totalizer	Double
113	Arm 1 Product 6 GST Non-resettable Totalizer	Double
117	Arm 1 Product 6 GSV Non-resettable Totalizer	Double
121	Arm 1 Product 6 Mass Non-resettable Totalizer	Double
125	Arm 2 Product 1 IV Non-resettable Totalizer	Double
129	Arm 2 Product 1 GV Non-resettable Totalizer	Double
133	Arm 2 Product 1 GST Non-resettable Totalizer	Double
137	Arm 2 Product 1 GSV Non-resettable Totalizer	Double



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Modbus Address	Description	Data Type
141	Arm 2 Product 1 Mass Non-resettable Totalizer	Double
145	Arm 2 Product 2 IV Non-resettable Totalizer	Double
149	Arm 2 Product 2 GC Non-resettable Totalizer	Double
153	Arm 2 Product 2 GST Non-resettable Totalizer	Double
157	Arm 2 Product 2 GSV Non-resettable Totalizer	Double
161	Arm 2 Product 2 Mass Non-resettable Totalizer	Double
165	Arm 2 Product 3 IV Non-resettable Totalizer	Double
169	Arm 2 Product 3 GV Non-resettable Totalizer	Double
173	Arm 2 Product 3 GST Non-resettable Totalizer	Double
177	Arm 2 Product 3 GSV Non-resettable Totalizer	Double
181	Arm 2 Product 3 Mass Non-resettable Totalizer	Double
185	Arm 2 Product 4 IV Non-resettable Totalizer	Double
189	Arm 2 Product 4 GV Non-resettable Totalizer	Double
193	Arm 2 Product 4 GST Non-resettable Totalizer	Double
197	Arm 2 Product 4 GSV Non-resettable Totalizer	Double
201	Arm 2 Product 4 Mass Non-resettable Totalizer	Double
205	Arm 2 Product 5 IV Non-resettable Totalizer	Double
209	Arm 2 Product 5 GV Non-resettable Totalizer	Double
213	Arm 2 Product 5 GST Non-resettable Totalizer	Double
217	Arm 2 Product 5 GSV Non-resettable Totalizer	Double
221	Arm 2 Product 5 Mass Non-resettable Totalizer	Double
225	Arm 2 Product 6 IV Non-resettable Totalizer	Double
229	Arm 2 Product 6 GV Non-resettable Totalizer	Double
233	Arm 2 Product 6 GST Non-resettable Totalizer	Double
237	Arm 2 Product 6 GSV Non-resettable Totalizer	Double
241	Arm 2 Product 6 Mass Non-resettable Totalizer	Double
245	Arm 3 Product 1 IV Non-resettable Totalizer	Double
249	Arm 3 Product 1 GV Non-resettable Totalizer	Double
253	Arm 3 Product 1 GST Non-resettable Totalizer	Double
257	Arm 3 Product 1 GSV Non-resettable Totalizer	Double
261	Arm 3 Product 1 Mass Non-resettable Totalizer	Double
265	Arm 3 Product 2 IV Non-resettable Totalizer	Double
269	Arm 3 Product 2 GV Non-resettable Totalizer	Double
273	Arm 3 Product 2 GST Non-resettable Totalizer	Double
277	Arm 3 Product 2 GSV Non-resettable Totalizer	Double
281	Arm 2 Product 2 Mass Non-resettable Totalizer	Double

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Modbus Address	Description	Data Type
285	Arm 3 Product 3 IV Non-resettable Totalizer	Double
289	Arm 3 Product 3 GV Non-resettable Totalizer	Double
293	Arm 3 Product 3 GST Non-resettable Totalizer	Double
297	Arm 3 Product 3 GSV Non-resettable Totalizer	Double
301	Arm 3 Product 3 Mass Non-resettable Totalizer	Double
305	Arm 3 Product 4 IV Non-resettable Totalizer	Double
309	Arm 3 Product 4 GV Non-resettable Totalizer	Double
313	Arm 3 Product 4 GST Non-resettable Totalizer	Double
317	Arm 3 Product 4 GSV Non-resettable Totalizer	Double
321	Arm 3 Product 4 Mass Non-resettable Totalizer	Double
325	Arm 3 Product 5 IV Non-resettable Totalizer	Double
329	Arm 3 Product 5 GV Non-resettable Totalizer	Double
333	Arm 3 Product 5 GST Non-resettable Totalizer	Double
337	Arm 3 Product 5 GSV Non-resettable Totalizer	Double
341	Arm 3 Product 5 Mass Non-resettable Totalizer	Double
345	Arm 3 Product 6 IV Non-resettable Totalizer	Double
349	Arm 3 Product 6 GV Non-resettable Totalizer	Double
353	Arm 3 Product 6 GST Non-resettable Totalizer	Double
357	Arm 3 Product 6 GSV Non-resettable Totalizer	Double
361	Arm 3 Product 6 Mass Non-resettable Totalizer	Double
365	Arm 4 Product 1 IV Non-resettable Totalizer	Double
369	Arm 4 Product 1 GV Non-resettable Totalizer	Double
373	Arm 4 Product 1 GST Non-resettable Totalizer	Double
377	Arm 4 Product 1 GSV Non-resettable Totalizer	Double
381	Arm 4 Product 1 Mass Non-resettable Totalizer	Double
385	Arm 4 Product 2 IV Non-resettable Totalizer	Double
389	Arm 4 Product 2 GV Non-resettable Totalizer	Double
393	Arm 4 Product 2 GST Non-resettable Totalizer	Double
397	Arm 4 Product 2 GSV Non-resettable Totalizer	Double
401	Arm 4 Product 2 Mass Non-resettable Totalizer	Double
405	Arm 4 Product 3 IV Non-resettable Totalizer	Double
409	Arm 4 Product 3 GV Non-resettable Totalizer	Double
413	Arm 4 Product 3 GST Non-resettable Totalizer	Double
417	Arm 4 Product 3 GSV Non-resettable Totalizer	Double
421	Arm 4 Product 3 Mass Non-resettable Totalizer	Double
425	Arm 4 Product 4 IV Non-resettable Totalizer	Double

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Modbus Address	Description	Data Type
429	Arm 4 Product 4 GV Non-resettable Totalizer	Double
433	Arm 4 Product 4 GST Non-resettable Totalizer	Double
437	Arm 4 Product 4 GSV Non-resettable Totalizer	Double
441	Arm 4 Product 4 Mass Non-resettable Totalizer	Double
445	Arm 4 Product 5 IV Non-resettable Totalizer	Double
449	Arm 4 Product 5 GV Non-resettable Totalizer	Double
453	Arm 4 Product 5 GST Non-resettable Totalizer	Double
457	Arm 4 Product 5 GSV Non-resettable Totalizer	Double
461	Arm 4 Product 5 Mass Non-resettable Totalizer	Double
465	Arm 4 Product 6 IV Non-resettable Totalizer	Double
469	Arm 4 Product 6 GV Non-resettable Totalizer	Double
473	Arm 4 Product 6 GST Non-resettable Totalizer	Double
477	Arm 4 Product 6 GSV Non-resettable Totalizer	Double
481	Arm 4 Product 6 Mass Non-resettable Totalizer	Double
485	Arm 5 Product 1 IV Non-resettable Totalizer	Double
489	Arm 5 Product 1 GV Non-resettable Totalizer	Double
493	Arm 5 Product 1 GST Non-resettable Totalizer	Double
497	Arm 5 Product 1 GSV Non-resettable Totalizer	Double
501	Arm 5 Product 1 Mass Non-resettable Totalizer	Double
505	Arm 5 Product 2 IV Non-resettable Totalizer	Double
509	Arm 5 Product 2 GV Non-resettable Totalizer	Double
513	Arm 5 Product 2 GST Non-resettable Totalizer	Double
517	Arm 5 Product 2 GSV Non-resettable Totalizer	Double
521	Arm 5 Product 2 Mass Non-resettable Totalizer	Double
525	Arm 5 Product 3 IV Non-resettable Totalizer	Double
529	Arm 5 Product 3 Non-resettable Totalizer	Double
533	Arm 5 Product 3 GST Non-resettable Totalizer	Double
537	Arm 5 Product 3 GSV Non-resettable Totalizer	Double
541	Arm 5 Product 3 Mass Non-resettable Totalizer	Double
545	Arm 5 Product 4 IV Non-resettable Totalizer	Double
549	Arm 5 Product 4 GV Non-resettable Totalizer	Double
553	Arm 5 Product 4 GST Non-resettable Totalizer	Double
557	Arm 5 Product 4 GSV Non-resettable Totalizer	Double
561	Arm 5 Product 4 Mass Non-resettable Totalizer	Double
565	Arm 5 Product 5 IV Non-resettable Totalizer	Double
569	Arm 5 Product 5 GV Non-resettable Totalizer	Double

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Modbus Address	Description	Data Type
573	Arm 5 Product 5 GST Non-resettable Totalizer	Double
577	Arm 5 Product 5 GSV Non-resettable Totalizer	Double
581	Arm 5 Product 5 Mass Non-resettable Totalizer	Double
585	Arm 5 Product 6 IV Non-resettable Totalizer	Double
589	Arm 5 Product 6 GV Non-resettable Totalizer	Double
593	Arm 5 Product 6 GST Non-resettable Totalizer	Double
597	Arm 5 Product 6 GSV Non-resettable Totalizer	Double
601	Arm 5 Product 6 Mass Non-resettable Totalizer	Double
605	Arm 6 Product 1 IV Non-resettable Totalizer	Double
609	Arm 6 Product 1 GV Non-resettable Totalizer	Double
613	Arm 6 Product 1 GST Non-resettable Totalizer	Double
617	Arm 6 Product 1 GSV Non-resettable Totalizer	Double
621	Arm 6 Product 1 Mass Non-resettable Totalizer	Double
625	Arm 6 Product 2 IV Non-resettable Totalizer	Double
629	Arm 6 Product 2 GV Non-resettable Totalizer	Double
633	Arm 6 Product 2 GST Non-resettable Totalizer	Double
637	Arm 6 Product 2 GSV Non-resettable Totalizer	Double
641	Arm 6 Product 2 Mass Non-resettable Totalizer	Double
645	Arm 6 Product 3 IV Non-resettable Totalizer	Double
649	Arm 6 Product 3 GV Non-resettable Totalizer	Double
653	Arm 6 Product 3 GST Non-resettable Totalizer	Double
657	Arm 6 Product 3 GSV Non-resettable Totalizer	Double
661	Arm 6 Product 3 Mass Non-resettable Totalizer	Double
665	Arm 6 Product 4 IV Non-resettable Totalizer	Double
669	Arm 6 Product 4 GV Non-resettable Totalizer	Double
673	Arm 6 Product 4 GST Non-resettable Totalizer	Double
677	Arm 6 Product 4 GSV Non-resettable Totalizer	Double
681	Arm 6 Product 4 Mass Non-resettable Totalizer	Double
685	Arm 6 Product 5 IV Non-resettable Totalizer	Double
689	Arm 6 Product 5 GV Non-resettable Totalizer	Double
693	Arm 6 Product 5 GST Non-resettable Totalizer	Double
697	Arm 6 Product 5 GSV Non-resettable Totalizer	Double
701	Arm 6 Product 5 Mass Non-resettable Totalizer	Double
705	Arm 6 Product 6 IV Non-resettable Totalizer	Double
709	Arm 6 Product 6 GV Non-resettable Totalizer	Double
713	Arm 6 Product 6 GST Non-resettable Totalizer	Double

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Modbus Address	Description	Data Type
717	Arm 6 Product 6 GSV Non-resettable Totalizer	Double
721	Arm 6 Product 6 Mass Non-resettable Totalizer	Double

Response Data, Command Code 12 (user registers):

Modbus Address	Description	Data Type
5	Boolean Variable 1	Unsigned char
6	Boolean Variable 2	Unsigned char
7	Boolean Variable 3	Unsigned char
8	Boolean Variable 4	Unsigned char
9	Boolean Variable 5	Unsigned char
10	Floating Point 1	Float
12	Floating Point 2	Float
14	Floating Point 3	Float
16	Floating Point 4	Float
18	Floating Point 5	Float
20	Text 1	Text
36	Text 2	Text
52	Text 3	Text
68	Text 4	Text
84	Text 5	Text
100	Text 6	Text
116	Text 7	Text
132	Text 8	Text

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### ***0x0405 Search Transaction Log***

This service searches the transaction log for the latest entry, the oldest entry still available in memory, or the most recent entry that falls before a given date and time. The service returns the sequence number of the entry.

Variation #1 Command Data (returns most recent record number):

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	4	unsigned	Size of Extended Services Packet
1	0x0405	unsigned	Router Word, "Search Transaction Log" service
2	1	unsigned	Sub-command (1=variation 1)

Variation #2 Command Data (returns oldest available record number):

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	4	unsigned	Size of Extended Services Packet
1	0x0405	unsigned	Router Word, "Search Transaction Log" service
2	2	unsigned	Sub-command (2=variation 2)

Variation #3 Command Data (searches on specified date and time):

<b>Modbus Address</b>	<b>Example Data</b>	<b>Data Type</b>	<b>Description</b>
0	20	unsigned	Size of Extended Services Packet
1	0x0405	unsigned	Router Word, "Search Transaction Log" service
2	3	unsigned	Sub-command (3=variation 3)
3	2000	unsigned	Log Year
4	4	unsigned	Log Month
5	12	unsigned	Log Day
6	0	unsigned	(reserved)
7	0	unsigned	Log Seconds
8	0	unsigned	Log Minutes
9	14	unsigned	Log Hours
10	0	unsigned	(reserved)

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Response Data:

Modbus Address	Example Data	Data Type	Description
0	8	unsigned	Size of Extended Services Packet
1	0x8405	unsigned	Router Word, "Search Transaction Log" service
2	0x0000	unsigned	Standard Response Code
3 - 4	93543	unsigned long	Sequence Number of Log Entry

### ***0x0406 Read Audit Trail Entry***

This service reads a record from the audit trail log stored in nonvolatile storage.

Command Data:

Modbus Address	Example Data	Data Type	Description
0	6	unsigned	Size of Extended Services Packet
1	0x0406	unsigned	Router Word, "Read Audit Log" service
2 - 3	87921	unsigned long	Sequence Number of Event

Response Data:

Modbus Address	Example Data	Data Type	Description
0	114	unsigned	Size of Extended Services Packet
1	0x8406	unsigned	Router Word, "Read Audit Log" service
2	0x0000	unsigned	Standard Response Code
3 - 38	"SY:708 3 Remote Control 5 Poll & Program"	text	Message Text; may be null terminated (\0)
39	0	unsigned	(reserved)
40	2000	unsigned	Log Year
41	1	unsigned	Log Month
42	25	unsigned	Log Day
43	0	unsigned	(reserved)
44	47	unsigned	Log Seconds
45	21	unsigned	Log Minutes
46	16	unsigned	Log Hours

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Modbus Address	Example Data	Data Type	Description
47	0	unsigned	(reserved)
48	0	unsigned	(reserved)

### ***0x0407 Search Audit Trail Log***

This service searches the audit trail log for the latest entry, the oldest entry still available in memory, or the most recent entry that falls before a given date and time. The service returns the sequence number of the entry.

Variation #1 Command Data (returns most recent record number):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0407	unsigned	Router Word, "Search Audit Log" service
2	1	unsigned	Sub-command (1=variation 1)

Variation #2 Command Data (returns oldest available record number):

Modbus Address	Example Data	Data Type	Description
0	4	unsigned	Size of Extended Services Packet
1	0x0407	unsigned	Router Word, "Search Audit Log" service
2	2	unsigned	Sub-command (2=variation 2)

Variation #3 Command Data (searches on specified date and time):

Modbus Address	Example Data	Data Type	Description
0	20	unsigned	Size of Extended Services Packet
1	0x0407	unsigned	Router Word, "Search Audit Log" service
2	3	unsigned	Sub-command (3=variation 3)
3	2000	unsigned	Log Year
4	4	unsigned	Log Month
5	12	unsigned	Log Day
6	0	unsigned	(reserved)
7	0	unsigned	Log Seconds
8	0	unsigned	Log Minutes



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Modbus Address	Example Data	Data Type	Description
9	14	unsigned	Log Hours
10	0	unsigned	(reserved)

Response Data:

Modbus Address	Example Data	Data Type	Description
0	8	unsigned	Size of Extended Services Packet
1	0x8407	unsigned	Router Word, "Search Audit Log" service
2	0x0000	unsigned	Standard Response Code
3 - 4	93543	unsigned long	Sequence Number of Log Entry

## **Modbus Communications Primer**

The AccuLoad III Modbus interface is designed to conform to a subset of the "Modicon Modbus™ Protocol Reference Guide" PI-MBUS-300 Rev. D (Modicon, Inc., Industrial Automation Systems). Modbus can be implemented on various transmission mediums (such as RS-232 or RS-485 communication ports). Transmission of data is serial and asynchronous. It is recommended that communications ports 2 or 3 on the AccuLoad be used for Modbus communications.

**The Host Message:** The host transmits a message on the communications line that represents a specific query or command. The *address* specifies which slave device is to act on the message. The *function* in the query tells the addressed slave device what kind of action to perform. The *register word* specifies what particular internal state/value of the slave is of interest to the host. The *data bytes* contain any additional information that the slave will need to perform the function. For example, function code 03 will query the slave to read holding registers and respond with their contents. The register field must contain information telling the slave which register(s) to read and the data field specifies how many registers to read. The *error check* or *CRC* (cyclical redundancy check) field enables the slave to validate the integrity of the message contents.

**The Response:** If the slave makes a normal response, the function byte in the response is an echo of the function in the query. The data bytes contain the data collected by the slave, such as register values or status. If an error occurs, the function code is modified to indicate that the response is an error response, and the data bytes contain a code that describes the error. The error check field allows the master to confirm that the message contents are valid.

### **RTU Framing**

Every Modbus message begins with a silent interval of at least 3.5 character times. Multiply the character times by the current network baud rate to determine the length of the silent interval (see T1-T2-T3-T4 in the figure below). Next, the AccuLoad address field is transmitted.

Characters for all fields are transmitted as binary bytes. In this manual, characters are represented by hexadecimal 0-9, A-F. All networked devices constantly monitor the network bus. This monitoring oc-

curs even during silent intervals. As each AccuLoad receives the first field (the address field), it decodes it to determine if it is the AccuLoad being addressed.

A second silent interval of at least 3.5 character times follows the last transmitted character of each message, after which a new message can begin. The new message must be transmitted as a continuous stream, with no silent interval in excess of 3.5 character times. If an excessively long silent interval occurs before completion of the frame, the receiving AccuLoad will disregard the entire incomplete message and wait for the address field of the next new message.

If a silent interval is less than 3.5 character times, the receiving AccuLoad will be unable to recognize it as the start of a new message and will attempt to read it as a part of the prior message. These combined messages will result in an invalid value in the final CRC field, and an error will result. A typical message frame is shown below.

3.5 character time delay	<b>ADDRESS</b>	<b>FUNCTION</b>	<b>REGISTER</b>	<b>DATA</b>	<b>CRC</b>	3.5 character time delay
	1 byte	1 byte	2 bytes	n bytes	2 bytes	

The starting 3.5 character-time ending delay for one message may be the same actual delay as the starting 3.5 character time for the next message (there is no need for the master to delay twice between messages as long as the duration exceeds the specified delay).

### **How Characters are Transmitted Serially**

When messages are transmitted on standard Modbus serial networks, each character or byte is sent in this order (left to right):

#### **With Parity Checking (8 bit word, 1 stop)**

Start	1	2	3	4	5	6	7	8	Par	Stop
-------	---	---	---	---	---	---	---	---	-----	------

#### **Without Parity Checking (8 bit word, 2 stop)**

Start	1	2	3	4	5	6	7	8	Stop	Stop
-------	---	---	---	---	---	---	---	---	------	------

### **Data Addresses in Modbus Messages**

All data addresses in Modbus messages are referenced to zero; the first occurrence of a data item is addressed as item number zero.

## Section VIII – Appendix

### **Modbus Functions**

The following Modbus functions have been implemented in the AccuLoad III.

Code	Function	Description
01	Read Relay Status	Reads the binary data from the (read/write) set of variables.
02	Read Input Status	Reads the binary data from the "inputs" (read only) set of variables.
03	Read Integer Registers (Read/Write Register Set)	Retrieves the current data from the requested registers.
04	Read Integer Registers (Read Only Register Set)	Retrieves the current data from the requested registers.
05	Force Single Relay	Changes the state of a binary (read/write).
06	Write (Preset) Single Register	Places a specific value into a (read/write) register.
08	Loop Back Diagnostic Text	Diagnostic test message sent to the AccuLoad to evaluate communications processing. <i>Note: Only the return Query Data diagnostic code is supported.</i>
15	Force Multiple Relays	Changes the state of multiple binary (read/write).
16	Write (Preset) Multiple Registers	Places specific values into a series of consecutive (read/write) registers.

## Section VIII – Modbus Communications Primer

### ***Master/Slave Communications***

The master communicates with the AccuLoad by sending messages containing function codes. Function codes indicate the actions the AccuLoad is to perform.

The AccuLoad's response to the master uses the function code field to report on the status of the task it was assigned. The two possible reports are (1) a normal, error-free response or (2) an exception response, indicating an error. A normal response repeats the original function code. An exception response returns a code that corresponds to the original function code, with its most-significant bit set to a logic 1.

For example, a master directs an AccuLoad to read a group of holding registers by sending the following function code:

0000 0011 (Hexadecimal 03)

If the AccuLoad completes the action without error, its response echoes the original command. If an error occurs, the AccuLoad returns the following message:

1000 0011 (Hexadecimal 83)

The AccuLoad augments its exception response by adding a code in the data field that indicates what type of error occurred. The exception response is handled according to the parameters of the application program controlling the master device.

For example, if the relay address is absent in the AccuLoad device, the AccuLoad will return the exception response with the exception code shown (02). This response indicates an invalid data address for the AccuLoad.

A listing of the exception codes appears below.

Code	Name	Meaning
01	Illegal Function	The function code received in the query is not an allowable action for the slave. If a Poll Program Complete command was issued, this code indicates that no program function preceded it.
02	Illegal Data Address	The data address received in the query is not an allowable address for the AccuLoad.
03	Illegal Data Value	A value contained in the query data field is not an allowable value for the AccuLoad.
04	Command Error	An unrecoverable error occurred while the AccuLoad was attempting to perform the requested action.

### ***Contents of the Data Field***

The data field consists of sets of two hexadecimal digits, in the range of 00 to FF hexadecimal.

The AccuLoad reads the data field sent by the master to perform the actions indicated by the function code. The data field contains information such as discrete and register addresses, the number of items to be handled, and the count of actual data bytes in the field.

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If, for example, the master directs an AccuLoad to read a group of holding registers (function code 03), the data field sent by the master must also indicate the starting register and the number of registers to be read. If the master writes to a group of registers in the slave (function code 10 hexadecimal), the data field sent by the master must also indicate the starting register, the number of registers to be written, the count of data bytes to follow in the data field, and the data to be written into the registers.

Assuming that no error in communication interferes, the data field of a response from a slave to a master contains the requested data. If an error does occur, the field contains an exception code that the application controlling the master can use to determine the next action to be taken.

### **Beginning Register**

This register identifies the beginning register from which the master is requesting information. This two-byte field lists the most significant digit first and the least significant digit last.

### **Number of Requested Registers**

This field identifies the number of consecutive registers from which the master is requesting information. This two-byte field lists the most significant digit first and the least significant digit last. The response is limited to 250 bytes of information.

### **Error Check (CRC16)**

This field allows the AccuLoad III and the supervisory system to check for errors in the transmission of commands and responses. Electrical noise or other interference may cause changes in transmitted data. The capacity to check for errors prevents the receiving device from responding to a message that has changed.

Error-checking in RTU mode is built on the Cyclical Redundancy Check (CRC) method. The entire message is subject to scrutiny by the CRC field, and the CRC is applied regardless of any other parity check method that might be in effect.

The CRC consists of a two-byte field containing a 16-bit binary value. The transmitting device calculates the CRC value and adds the CRC to the message. The receiving device then recalculates the CRC when the message is received, and compares the first value with the second. An error results when the two message values are unequal.

The CRC is initiated by pre-loading a 16-bit register to all 1's. Successive 8-bit bytes of the message are then applied to the current contents of the register. The CRC is generated only by the eight bits of data in each character. Start and stop bits, and the parity bit if one is used, are not taken into account.

When the CRC is generated, each 8-bit character is exclusive ORed with the register contents. The result is then shifted toward the least significant bit (LSB), and a zero added to the most significant bit (MSB) position. The LSB is extracted and examined. Assuming the LSB was a 1, the register is then exclusive ORed with a preset, fixed value. If the LSB was a 0, there will be no exclusive OR.

The process consists of eight shifts. After the eighth and final shift, the next 8-bit byte is exclusive ORed with the register's current value. The process is then repeated for an additional eight shifts. The final content of the register, after all the bytes of the message have been applied, is the CRC value.

### **Placing the CRC into the Message**

When the 16-bit CRC (2 8-bit bytes) is transmitted in the message, the low-order byte will be transmitted first, followed by the high-order byte. For example, if the CRC value is 1241 hex (0001 0010 0100 0001):

Addr	Func	Data Count	Data	Data	Data	Data	CRC Lo	CRC Hi
							41	12

### **Field Contents in Modbus Messages**

Examples of a Modbus query message and normal response are shown in the tables on the following page. The field contents in both examples are displayed in hexadecimal.

In this example, the master sends a Read Holding Registers request to AccuLoad address 06. The AccuLoad is specifically directed to return data from three holding registers, starting with address 0107 (006B hex).

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As is the case in any normal response, the AccuLoad first echoes the function code sent by the master. The AccuLoad then transmits the byte count field, indicating the number of 8-bit data items being returned. Finally, the AccuLoad returns the 8-bit bytes containing the requested data.

**How to Use the Byte Count Field:** When constructing responses in buffers, use a byte count value that equals the count of 8-bit bytes in the message data. The value is exclusive of all other field contents, including the byte count field. The AccuLoad response example illustrates a typical byte count field in a normal response.

Master Query		
Field Name	Example (Hex)	RTU 8-Bit Field
Header		None
AccuLoad Address	06	0000 0110
Function	03	0000 0011
Starting Address Hi	00	0000 0000
Starting Address Lo	6B	0110 1011
No. of Registers Hi	00	0000 0000
No. of Registers Lo	03	0000 0011
Error Check		CRC (16 bits)
Total Bytes:		8

AccuLoad Response		
Field Name	Example (Hex)	RTU 8-Bit Field
Header		None
AccuLoad Address	06	0000 0110
Function	03	0000 0011
Byte Count	06	0000 0110
Data Hi	02	0000 0010
Data Lo	2B	0010 1011
Data Hi	00	0000 0000
Data Lo	00	0000 0000
Data Hi	00	0000 0000
Data Lo	63	0110 0011
Error Check		CRC (16 bits)
Total Bytes:		11

The AccuLoad III monitors the amount of time between the receipt of characters. If three and one-half character times elapse without the AccuLoad III seeing a new character or the end of a frame, the message is flushed and the next characters received will be viewed as an address. If the address is for that AccuLoad III, it will respond. If the address is not for that AccuLoad III, the message will be flushed and it will look for the next message.

### Address

The address is the first field in the frame and consists of one byte (eight bits) of information. The address is the unique identification of the AccuLoad III (slave) that is to receive the message that is sent via the supervisory system (master). Each AccuLoad III address must be unique so that only the addressed slave will respond to a query. The address is also part of the response message sent back to the master from the AccuLoad III when data is requested. By returning the address as part of the response, the master can tell which of the AccuLoads the data is coming from.

### Query Responses

The first two fields of the response to the read only message are identical to the command. The AccuLoad III returns the address and the function code that was transmitted to the unit. The next field is the byte count.

### Byte Count

The byte count is sent to the master (supervisory system) indicating how much data is being sent from the AccuLoad III. In the example shown, the command requested data from these registers and each register contains two bytes of data.

### Data Register

Each of the data registers of unsigned characters contains two bytes of data. The response message returns the data with the most significant byte of data first and the least significant byte second. Data can be requested and returned from a number of registers with a single interrogation message. The limit on the amount of data returned from the AccuLoad III to the master is 256 bytes. The data lengths for the data types currently used by the AccuLoad III are as follows:

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Data Length	
Type	Binary
Double	8 bytes
Integer	2 bytes
Long Integer	4 bytes
Text String	Variable length
Character	2 bytes (high order byte set to zero)
CRC-16	2 bytes
Float	4 bytes
Unsigned Integer	2 bytes
Unsigned long	4 bytes
Unsigned character	2 bytes (high order byte set to zero)

The error-checking sequence is the same as described in the paragraph under Read Only Message.

### 01 Read Relay Status

#### Description

Reads the ON/OFF status of discrete variables in the AccuLoad. The maximum number of "coils" per response is 256 in the AccuLoad III.

#### Query

The query message specifies the starting register and quantity of registers to be read.

There are now no variables to read from this group. If there were, this is an example of a request to read variables 20 through 56 from AccuLoad device 17:

Query	
Field Name	Example (Hex)
AccuLoad Address	0x11
Function	0x01
Starting Address Hi	0x00
Starting Address Lo	0x13
No. of Points Hi	0x00
No. of Points Lo	0x25
Error Check (CRC)	(calculated)

#### Response

A response message consists of a relay status packed as one relay per bit of the data field. Status is indicated by means of the following code: 0 = OFF; 1 = ON. The first data byte is contained in the LSB, and specifies the relay addressed in the query. All other relays follow from "low order to high order" in subsequent bytes.

The returned relay quantity must be a multiple of eight; otherwise, it will be padded with zeros toward the high order end of the byte. The assembled bytes of data are specified in the byte count field.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	0x11
Function	0x01
Byte Count	0x05
Data (Relays 27-20)	0xCD
Data (Relays 35-28)	0x6B
Data (Relays 43-36)	0xB2
Data (Relays 51-44)	0x0E
Data (Relays 56-52)	0x1B
Error Check (CRC)	(calculated)

The status of relays 27 through 20 is shown as the byte value CD hex, or binary 1100 1101. Relay 27 is the MSB of the byte, and relay 20 is the LSB. The status of relays 27 through 20 is expressed from left to right as ON-ON-OFF-OFF-ON-ON-OFF-ON.

Bits within a byte are shown with the MSB to the left and the LSB to the right; therefore, the relays in the first byte are "27 through 20," from left to right. Relays "35 through 28" are contained in the next byte, again from left to right. As the bits are transmitted serially, they flow from LSB to MSB (i.e., 20 through 27, 28 through 35, and so on).

In the last data byte, the status of relays 56 through 52 is shown as the byte value 1B hex, or binary 0001 1011. Relay 56 is in the fourth bit position from the left, and relay 52 is the LSB of this byte. The status of relays 56 through 52 is expressed as ON-ON-OFF-ON-ON. The three remaining bits toward the high order end are padded with zeros.

## 02 Read Input Status

### Description

Reads the ON/OFF status of discrete "inputs" (read only binary references) in the AccuLoad. The maximum number of parameters supported by AccuLoad III is limited to 256 per query.

### Query

The query message specifies the starting "input" and quantity of "inputs" to be read. "Inputs" are addressed starting at zero: inputs 1 through 16 are addressed as 0 through 15.

An example of a request to read the states of inputs 1024 to 1033 from AccuLoad 17 is shown below:

Query	
Field Name	Example (Hex)
AccuLoad Address	0x11
Function	0x02
Starting Address Hi	0x00
Starting Address Lo	0xC4
No. of Points Hi	0x00
No. of Points Lo	0x0A
Error Check (CRC)	(calculated)

### Response

The input status is packed in the response message as one input per bit of the data field. Status is indicated as 0 = OFF; 1 = ON. The input addressed in the query appears in the LSB of the first data byte. The other inputs follow toward the high order end of this byte, and from low order to high order in all subsequent bytes.

The returned input quantity must be a multiple of eight; otherwise, the remaining bits in the final data byte will be padded with zeros toward the high order end of the byte. The quantity of complete bytes of data is indicated in the byte count field.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	0x11
Function	0x02
Byte Count	0x02
Data (Inputs 1031-1024)	0xAC
Data (Inputs 1033-1032)	0x01
Error Check (CRC)	(calculated)

The status of inputs 1031 through 1024 is shown as the byte value AC hex, or binary 1010 1100. Input 1031 is the MSB of this byte and input 1024 is the LSB. The status of inputs 1031 through 1024 is expressed as ON-OFF-ON-OFF-ON-ON-OFF-OFF, from left to right.

The status of inputs 1033 through 1032 are shown as the byte value 01 hex, or binary 0000 0001. Input 1033 is in the seventh bit position from the left and input 1032 is the LSB. The status of inputs 1033 through 1032 is OFF-ON. The six remaining bits toward the high order end are padded with zeros, since the returned input quantity must be a multiple of eight.

## 03 Read Holding Registers

### Description

Reads the binary contents of holding registers (read/write registers).

### Query

The query message specifies the starting register and quantity of registers to be read. Registers are addressed starting at zero.



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An example of a request to read registers 107 through 109 from AccuLoad 17 is shown below.

Query	
Field Name	Example (Hex)
AccuLoad Address	0x11
Function	0x03
Starting Address Hi	0x00
Starting Address Lo	0x6B
No. of Points Hi	0x00
No. of Points Lo	0x03
Error Check (CRC)	(calculated)

### Response

Each register data in the response message contains two bytes. The binary contents are right justified within each byte. Within each register, the first byte contains the high order bits and the second byte contains the low order bits.

An example of a response to the preceding query is shown below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	03
Byte Count	06
Data Hi (Register 107)	02
Data Lo (Register 107)	2B
Data Hi (Register 108)	00
Data Lo (Register 108)	00
Data Hi (Register 109)	00
Data Lo (Register 109)	64
Error Check (CRC)	--

## 04 Read Input Registers

### Description

This function reads the binary contents of "input registers" in the AccuLoad. These are "read-only" values; they cannot be written.

### Query

The query message specifies the starting register and quantity of registers to be read. Registers are addressed starting at zero.

An example of a request to read register 8 from AccuLoad 17 appears below.

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	04
Starting Address Hi	00
Starting Address Lo	08
No. of Points Hi	00
No. of Points Lo	01
Error Check (CRC)	--

### Response

Each register data in the response message contains two bytes. The binary contents are right justified within each byte. Within each register, the first byte contains the high order bits and the Second byte contains the low order bits.

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An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	04
Byte Count	02
Data Hi (Register 30009)	00
Data Lo (Register 30009)	0A
Error Check (CRC)	--

### ***05 Force Single Relay***

#### ***Description***

Forces a single relay either ON or OFF.

#### ***Query***

The query message specifies the relay reference to be forced. Relays are addressed starting at zero.

A constant in the query data field indicates the required ON/OFF state. A value of FF 00 hex directs the relay to be ON. A value of 00 00 directs the relay to be OFF. No other value is valid, nor will it affect the relay.

An example of a request to force relay 150 ON in AccuLoad 17 appears below. (Reset User Alarm #9)

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	05
Relay Address Hi	00
Relay Address Lo	96
Force Data Hi	FF
Force Data Lo	00
Error Check (CRC)	--

#### ***Response***

An echo of the query, returned after the relay status has been forced, indicates a normal response.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	05
Relay Address Hi	00
Relay Address Lo	96
Force Data Hi	FF
Force Data Lo	00
Error Check (CRC)	--

### ***06 Preset Single Register***

#### ***Description***

Presets a value into a single holding register.

#### ***Query***

The query message specifies the register reference to be preset. Registers are addressed starting at zero. The requested preset value is specified in the query data field.

An example of a request to preset register 1 to 0x0003 (hex) in AccuLoad 17 appears below.

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	06
Register Address Hi	00
Register Address Lo	01
Preset Data Hi	00
Preset Data Lo	03
Error Check (CRC)	--

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### Response

An echo of the query, returned after the register contents have been preset, is a normal response.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	06
Register Address Hi	00
Register Address Lo	01
Preset Data Hi	00
Preset Data Lo	03
Error Check (CRC)	--

### Query

An example of a Return Query Data request to slave device 17 appears below. This request involves a sub-function code of zero 0x0000 (hex) in the two-byte field. The data to be returned is sent in the two-byte data field 0xA537 (hex).

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	08
Sub-function Hi	00
Sub-function Lo	00
Data Hi	A5
Data Lo	37
Error Check (CRC)	--

### Function 08 – Diagnostics

#### Description

Modbus™ function 08 is a diagnostic test that checks the master/AccuLoad communication system. A two-byte subfunction code field in the query defines the test to be performed. In a normal response, the AccuLoad echoes both the function code and sub-function code.

A two-byte data field is used in most of the tests. The data field contains control information or diagnostic data that is sent to the AccuLoad. In some tests, the AccuLoad returns diagnostic data in the data field of a normal response.

An example of a diagnostics query and response appears below. The query indicates the location of the function code, sub-function code, and the data field within the messages.

A list of sub-function codes supported by the controllers is shown on the following page. Each subfunction code is listed, along with an example of the data field content that applies to that diagnostic.

### Response

A loop-back of data is the normal response to a Return Query Data request. The function and sub-function codes are also echoed.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	08
Sub-function Hi	00
Sub-function Lo	00
Data Hi	A5
Data Lo	37
Error Check (CRC)	--

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### **Subfunction "00", Return Query Data**

A normal response to the data passed in the query data field is an echo of the original message.

Sub-function	Data Field (Query)	Data Field (Response)
0x0000	Any	Echo Query Data

### **15 (0F Hex) Force Multiple Relays**

#### **Description**

Forces each relay in a sequence of relays to either ON or OFF. The maximum number of parameters by AccuLoad III is limited to 256 per query.

#### **Query**

The query message specifies the relay references to be forced. Relays are addressed starting at zero; thus, relay 1 is addressed as 0.

The contents of the query data field specify whether a state is ON or OFF. A logical "1" in a bit position of the field requests the corresponding relay to be ON. A logical "0" requests that the relay be OFF.

An example of a request to force a series of ten relays starting at address 15, or 0F hex in AccuLoad 17, appears below.

The query data content consists of two bytes: CD 01 hex (1100 1101 0000 0001 binary). The binary bits correspond to the relays as shown below.

<b>Bit:</b>	1	1	0	0	1	1	0	1		0	0	0	0	0	0	0	0	1
<b>Re- lay:</b>	22	21	20	19	18	17	16	15		-	-	-	-	-	-	-	24	23

The first byte transmitted (CD hex) addresses relays 22 through 15, with the least significant bit corresponding to the lowest relay (15) in this set.

The next byte transmitted (01 hex) addresses relays 24 to 23, with the least significant bit corresponding to the lowest relay (23) in this set. Unused bits in the last data byte are padded with zeros.

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	0F
Relay Address Hi	00
Relay Address Lo	0F
Quantity of Relays Hi	00
Quantity of Relays Lo	0A
Byte Count	02
Force Data Hi (Relays 27-20)	CD
Force Data Lo (Relays 29-28)	01
Error Check (CRC)	--

#### **Response**

The normal response consists of the slave address, function code, starting address, and number of relays forced.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	0F
Relay Address Hi	00
Relay Address Lo	0F
Quantity of Relays Hi	00
Quantity of Relays Lo	0A
Error Check (CRC)	--

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### 16 (10 Hex) Preset Multiple Registers

#### Description

Presets values into a sequence of holding registers.

#### Query

The query message specifies the register references to be preset. Registers are addressed beginning with zero.

An example of a request to preset two registers starting at 1 to 0x000A and 0x0102 (hex), in AccuLoad 17, appears below.

Query	
Field Name	Example (Hex)
AccuLoad Address	11
Function	10
Starting Address Hi	00
Starting Address Lo	01
No. of Registers Hi	00
No. of Registers Lo	02
Byte Count	04
Data Hi	00
Data Lo	0A
Data Hi	01
Data Lo	02
Error Check (CRC)	--

#### Response

A normal response consists of the slave address, function code, starting address, and quantity of registers preset.

An example of a response to the preceding query appears below.

Response	
Field Name	Example (Hex)
AccuLoad Address	11
Function	10
Starting Address Hi	00
Starting Address Lo	01
No. of Registers Hi	00
No. of Registers Lo	02
Error Check (CRC)	--

#### Exception Responses

When a master device sends a query to an AccuLoad device, there are three possible outcomes:

1. The AccuLoad receives the query with no communication errors, handles the query normally, and returns a normal response.
2. A communication error bars the AccuLoad from receiving the query, so no response is returned. The master program eventually processes a timeout condition for the query.
3. The AccuLoad receives the query without error, but returns no response. The master program eventually processes a timeout condition for the query.

Two fields in the exception response message differentiate it from a normal response:

**Function Code Field:** An AccuLoad normally echoes the function code of the original query in the function code field of the response. Because the values of all function codes are below 80 hexadecimal, all function codes have a most-significant bit (MSB) of 0. In an exception response, however, the slave sets the MSB of the function code to 1. The value of the function code in an exception response is therefore 0x80 (hex) higher than the value for a normal response.

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Accordingly, the application program controlling the master can quickly recognize the exception response and derive the exception code from the data field.

**Data Field:** A normal response consists of any data or statistics in the data field requested by the query. An exception response consists of an exception code in the data field. The code indicates the AccuLoad condition that caused the exception.

An example of a master query and AccuLoad exception response is shown in the table below. The field examples are given in hexadecimal.

Query		
Byte	Contents	Example
1	AccuLoad Address	0A
2	Function	01
3	Starting Address Hi	28
4	Starting Address Lo	0A
5	No. of Relays Hi	00
6	No. of Relays Lo	01
7	CRC	--
Exception Response		
Byte	Contents	Example
1	AccuLoad Address	0A
2	Function	81
3	Exception Code	02
4	CRC	--

Here, the master addresses a query to AccuLoad 10. The function code (01) is for a Read Relay Status operation that requests the status of the relay at address 10250 (0x280A hex). The number of relays field (0001) specifies that only one relay is to be read.

## Section IX – Related Publications

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The following literature can be obtained from FMC Measurement Solutions Literature Fulfillment at [measurement.fulfillment@technipfmc.com](mailto:measurement.fulfillment@technipfmc.com) or online at [http://info.smithmeter.com/literature/online\\_index.html](http://info.smithmeter.com/literature/online_index.html). When requesting literature from Literature Fulfillment, please reference the appropriate bulletin number and title.

### ***AccuMate for AccuLoad III-X***

Specification .....Bulletin [SS06032](#)  
Installation/Operation.....Bulletin [MN06136](#)

### ***AccuLoad III-X***

Specification .....Bulletin [SS06036](#)  
Installation/Operation.....Bulletin [MN06135](#)  
Operator Reference .....Bulletin [MN06129](#)  
Communications .....Bulletin [MN06130L](#)

## Technical Support

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**Field Service Response Center**

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a Technician: 1-844-798-3819

System Installation Supervision,  
Start-Up, Commissioning Services,  
and Training Available

Revisions included in MN06131L Issue/Rev. 1.4 (10/11)

Added New/Updated Modbus Addresses to Map of Function Sections.

Control Valve Diagnostics Command - Modbus Addresses added – pages 278-280 and pages 386-388.

**Editorial Change:** Page 83 – Modbus Addresses 3576 and 3578 added – February 2014.

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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