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VERSAFLOW FLOW METERS

Accurate and Reliable Measurements for the Most Demanding Applications

Honeywell The power of connected

Honeywell Versa Flow Solutions

As part of Honeywell's broad lineup of field instruments, VersaFlow flowmeters are built to our exacting standards for quality, performance and reliability backed up by a comprehensive global support network.



VersaFlow Electromagnetic Flowmeter

VersaFlow Electromagnetic Flowmeter is suitable for a variety of measuring tasks and applications, including rapidly changing media, pH jumps, large amounts of solids or pulsating flow. Product versatility enables VersaFlow Magmeters to deliver significant cost savings during planning, procurement, installation and training. Virtual reference grounding eliminates the need for grounding electrodes or rings, reducing installation costs and potential leak points.

VersaFlow Clamp-on Ultrasonic Flowmeter

+ 2.497

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VersaFlow Clamp-on Ultrasonic Flowmeter stands for continuity and long-term reliability. Flow measurement can be done anywhere and startup is immediate. The clamp-on flowmeter with its robust industrial construction and regreasing concept provides a revolutionary solution for easy handling and reduced maintenance costs.

Benefits	Benefits				
 Proven technology 	Reduced installed cost				
 Expanded application capabilities 	 Low cost to service and maintain 				
 A wide range of process conditions 	 No flow interruptions and no downtime 				
 Easy to install and operate 	 No pressure loss, no wear and no clogging 				
 Sizes to fit your application requirements 					
Chemically resistant to acids and alkalis					
Features	Features				
 Conductivity down to 1 µS/cm 	Non intrusive				
 Virtual reference ground 	 Easy sensor mounting 				
 Conductivity and electrode resistance measurement 	Optimized reliability				
 Easy to select and maintain 	Easy installation wizardMinimal maintenance				
Empty pipe detection					
Electrode noise detection	• Flexible				
 Modular electronics concept 					
Applications	Applications				
 Suitable for all conductive applications 	Chemical addition				
 From clean liquids to slurries and pastes 	Potable water				
with high solids content	 Purified water Broad range of refined hydrocarbons Sanitary flow rate measurements Deionized and demineralized water 				
 Abrasion, chemical and vacuum resistant 					
 Suitable for high temperatures 					
 Energy measurement in commercial buildings 					



VersaFlow Vortex Flowmeter

VersaFlow Vortex Flowmeter is the only vortex flowmeter with integrated pressure and temperature compensation in 2-wire technology, providing maximum performance at the lowest installed cost. VersaFlow Vortex Flowmeter provides reliable measurement of operating, standard volumetric and mass flow of conductive and non-conductive liquids, gases and vapors, even with fluctuating pressures and temperatures.

• SIP and CIP processes in food and pharmaceutical

applications



VersaFlow Coriolis Mass Flowmeter

VersaFlow Coriolis Mass Flowmeter measures mass flow, density, volume, temperature, mass or volume concentration and solids content with a single device. It is a high performance meter designed to meet the requirements of liquids and gas applications with wide operating temperature and Pressure ranges. VersaFlow Coriolis devices are available in straight and bent tube designs with straight measuring tube in Hastelloy, titanium or Stainless steel MOC. It offers a high level of performance together with wide operating temperature and pressure ranges.

Benefits	Benefits
 Reduced installation cost and improved performance Rugged, long-lasting design for the toughest applications Easy to install and maintain Multiple parameter monitoring 	 Direct mass and density measurement Highly accurate and low pressure drop Near zero flow rate Flow conditioning usually not required Reduced maintenance time and cost Designed for liquid as well as gas applications. Two phase flow indication & diagnostics acc to NAMUR 107
Features	Features
 2-wire device with integrated pressure and temperature compensation Non-wearing, fully welded stainless steel construction with high corrosion, pressure and temperature resistance Optimal process reliability due to Intelligent Signal Processing (ISP) Maintenance-free, water hammer resistant sensor design Pressure and temperature can be called up via HART[®] 	 Straight and bent tube designs Secondary pressure containment around sensor Extended temperature & pressure ranges Easily drained and easy to clean Excellent zero stability Stable measurement even with 100% gas entrainment Immunity to crosstalk Compact envelope
Applications	Applications
 Superheated and saturated steam measurement Steam boiler monitoring Monitoring of compressor output Measurement of consumption in compressed air systems Measurement of consumption of industrial gases 	 Liquids or Gases Slurries or Viscous products Liquids with gas entrainment Custody transfer Abrasive fluids
Measurement of conductive and non-conductive liquids	 Density, temperature and

• Density, temperature and concentration measurement

VersaFlow Selection Guide:

Technology, Design, Size and Model Types

Technology and Series	Design	мос	Model	Size	Technology and Series	Design		Model	Size
VersaFlow Coriolis 100	Twin Straight Tube Design - Basic Series		CM01	1/2"	VersaFlow	HVAC/Water - Sandwich Version HVAC/Water -		MM01	³∕8" to 6"
		Stainless Steel	CM02	1"	Mag 100			ININIOT	% to 6
			CM03	11/2"				MM10	1" to 6"
			CM04	2"	VersaFlow			MM11	8" to 24"
	Single Straight Tube Design - Various tube MOCs	Titanium	CM10 CM11	1/8" 3/8"	Mag 1000	Flanged		MM12	28" to 80"
			CM11 CM12	1/2"					
			CM12 CM13	1"	VersaFlow Mag 2000	Ceramic		MM52	1⁄2" to 4"
			CM14	11/2"				MM53	6" to 10"
			CM15	2"	VersaFlow Mag 3000	Sanitary/Hygienic		MM30	1/ ₁₀ " to 6"
			CM16	3"					
		Stainless Steel	CM20	1/8"	VersaFlow Mag 4000	Industrial		MM40	1/ ₁₀ " to 1/2"
			CM21	3/8"				MM41	1" to 6"
			CM22	1/2"				MM42	8" to 24"
			CM23	1"				MM43	28" to 80"
VersaFlow Coriolis 1000			CM24 CM25	<u>1 ½"</u> 2"				MM90	20 10 00
011003 1000			CM30	3/8"	VersaFlow Mag Converter TWM9000	Basic I/O			¹⁄ ₁₀ " to 80"
			CM31	1/2"		Modular I/O		MM91	
		Hastelloy	CM32	1"	1 11113000	Fixed I/O		MM92	
			CM33	1 1/2"	VersaFlow Mag Converter TWM1000	Basic I/O		MM95	
			CM34	2"					1/ ₁₀ " to 48"
			CM35	3"				10.10.1	1/2
	Single Straight Tube Design - Custody Transfer Models	Titanium	CM52	1/2"	VersaFlow Vortex 100	Flanged		VM01	½" to 12"
			CM53	1"	VORIEX 100	Sandwich		VM02	1⁄2" to 4"
			CM54	1½" 2"	VersaFlow Clamp-on Ultrasonic Meter	Fixed Clamp-on		SM10	1⁄2" to 160"
			CM55 CM56	3"		Portable Clamp-on		SM20	1⁄2" to 60"
VersaFlow Coriolis 200	Twin Straight Tube Design - (CT/Non-CT) for Bulk Flow Measurement	Stainless Steel	CM30 CM41	4"	VersaFlow Clamp-on Sonic 1000 Converter	Basic I/O		SM11	½" to 160"
			CM42	6"		Modular I/O		SM12	
			CM43	10"					
			CM45	16"		Fixed I/O		SM13	
	Twin Bent Tube Design - Extended Pressure and Temperature Ranges; High Accuracy Option	SS/ Hastelloy SS/ Duplex SS	CM71	1/4"	VersaFlow Clamp-on Sonic 2000 Converter	Portable Sonic		SM21	1⁄2" to 60"
			CM72	3/8"		Converter			
			CM73	1/2"					
VersaFlow Coriolis 6000			CM74	1"					
			CM75 CM76	2" 3"		Electro-			Clamp-o
			CM76 CM77	4"	Industries	magnetic	Vortex		lis Ultrason
			CM78	6"	Chemicals	V	V	V	V
			CM79	8"	Petrochemical	V		V	V
	Basic I/O		CM90		Food & Beverage	V		V	V
VersaFlow Coriolis	Modular I/O		CM91	VFC100/	Minerals & Mining	V	V	V	
Converter TWC9000	Fixed I/O	TWC9000	CM92	1000/200	Oil & Gas	· · ·	V		V
	Direct Digital		CM93			-	v	-	
VersaFlow Coriolis	Modular I/O	- TWC9400	CM96	VFC6000	Pharmaceuticals	V		V	V
Converter TWC9400	Fixed I/O		CM97	1.00000	Power Plants	~	V	V	V

For More Information

For more information about Honeywell's VersaFlow flowmeters, visit www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

1250 West Sam Houston Parkway South Houston, TX 77042

Honeywell House, Skimped Hill Lane Bracknell, Berkshire, England RG12 1EB UK

Building #1, 555 Huanke Road, Zhangjiang Hi-Tech Industrial Park, Pudong New Area, Shanghai 201203

www.honeywellprocess.com

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Pulp & Paper

Wastewater

Automotive

Iron, Steel & Metals

Water

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