

# **VERSAFLOW** **FLOW METERS.**

Accurate and Reliable Measurements for the Most Demanding Applications



**Honeywell**

# HONEYWELL VERSAFLOW 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.

## Applications

- Suitable for all conductive applications
- From clean liquids to slurries and pastes with high solids content
- Abrasion, chemical and vacuum resistant
- Suitable for high temperatures
- Energy measurement in commercial buildings



## FEATURES & BENEFITS

- Proven technology
- Expanded application capabilities
- A wide range of process conditions
- Sizes to fit your application requirements
- Chemically resistant to acids and alkalis
- Conductivity down to 1  $\mu$ S/cm
- Virtual reference ground
- Conductivity and electrode resistance measurement
- Easy to select and maintain
- Empty pipe detection
- Electrode noise detection
- Modular electronics concept
- Easy to install and operate



## **VERSAFLOW CLAMP-ON ULTRASONIC FLOWMETER**

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.

## **FEATURES & BENEFITS**

- Reduced installed cost
- Low cost to service and maintain
- No flow interruptions and no downtime
- No pressure loss, no wear and no clogging
- Non intrusive
- Easy sensor mounting
- Optimized reliability
- Easy installation wizard
- Minimal maintenance
- Flexible

## **Applications**

- Chemical addition
- Potable water
- Purified water
- Broad range of refined hydrocarbons
- Sanitary flow rate measurements
- Deionized and demineralized water



## **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.

## **FEATURES & BENEFITS**

- Reduced installation cost and improved performance
- Rugged, long-lasting design for the toughest applications
- Easy to install and maintain
- Multiple parameter monitoring
- 2-wire device with integrated pressure and temperature compensation
- Non-wearing, fully welded stainless

## **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
- Measurement of conductive and non-conductive liquids
- SIP and CIP processes in food and pharmaceutical applications



- 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®



## 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.

## FEATURES & BENEFITS

- Direct mass and density measurement
- Highly accurate and low pressure drop
- Flow conditioning usually not required
- Reduced maintenance time and cost
- Straight and bent tube designs
- Secondary pressure containment around sensor
- Two phase flow indication & diagnostics acc to NAMUR 107
- Near zero flow rate
- Designed for liquid as well as gas applications.
- 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

- Liquids or Gases
- Slurries or Viscous products
- Liquids with gas entrainment
- Custody transfer
- Abrasive fluids
- Density, temperature and concentration measurement



## VERSAFLOW SELECTION GUIDE:

Technology, Design, Size and Model Types

TECHNOLOGY AND SERIES	DESIGN	MOC	MODEL	SIZE
VersaFlow Coriolis 100	Twin Straight Tube Design - Basic Series	Stainless Steel	CM01	½"
			CM02	1"
			CM03	1 ½"
			CM04	2"
VersaFlow Coriolis 1000		Titanium	CM16	3"
		Stainless Steel	CM20	⅝"
VersaFlow Coriolis 200	Twin Straight Tube Design for Bulk Flow Measurement	Stainless Steel	CM41	4"
VersaFlow Coriolis 6000	Twin Bent Tube Design - Extended Pressure and Temperature Ranges; High Accuracy Option	SS/Hastelloy	CM71	¼"
			CM72	⅜"
			CM73	½"
			CM74	1"
			CM75	2"
			CM76	3"
		SS/Duplex SS	CM77	4"
			CM78	6"
			CM79	8"
VersaFlow Coriolis Converter TWC9400	Modular I/O	-	CM96	⅛" to 16"
	Fixed I/O	-	CM97	
VersaFlow Mag 100	HVAC/Water - Sandwich Version	-	MM01	⅜" to 6"
			MM10	1" to 6"
VersaFlow Mag 1000	HVAC/Water - Flanged	-	MM11	8" to 24"
			MM12	28" to 80"
VersaFlow Mag 3000	Sanitary/Hygienic	-	MM30	⅒" to 6"
VersaFlow Mag 4000	Industrial	-	MM41	1" to 6"
			MM42	8" to 24"
VersaFlow Mag Converter TWM9000	Basic I/O	-	MM90	⅒" to 80"
	Modular I/O	-	MM92	
VersaFlow Mag Converter TWM1000	Basic I/O	-	MM95	⅒" to 48"
VersaFlow Vortex 200	Flanged	-	VM20	½" to 12"
	Sandwich	-	VM21	½" to 4"
VersaFlow Clamp-on Ultrasonic Meter	Fixed Clamp-on	-	SM10'	½" to 160"
	Portable Clamp-on	-	SM20	½" to 60"
VersaFlow Clamp-on Sonic 1000 Converter	Basic I/O	-	SM11'	½" to 160"
	Modular I/O	-	SM12'	
VersaFlow Clamp-on Sonic 2000 Converter	Portable Sonic Converter	-	SM21	½" to 60"

\* Check with Account manager on availability



INDUSTRIES	ELECTRO- MAGNETIC	VORTEX	CORIOLIS	CLAMP-ON ULTRASONIC
Chemicals	✓	✓	✓	✓
Petrochemical	✓		✓	✓
Food & Beverage	✓		✓	✓
Minerals & Mining	✓	✓	✓	
Oil & Gas	✓	✓	✓	✓
Pharmaceuticals	✓		✓	✓
Power Plants	✓	✓	✓	✓
Pulp & Paper	✓	✓	✓	
Water	✓	✓	✓	✓
Wastewater	✓		✓	
Iron, Steel & Metals	✓	✓	✓	
Automotive	✓	✓	✓	

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**For More Information**

For more information about Honeywell's VersaFlow flowmeters, visit [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

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