



Vortex Flow Sensors

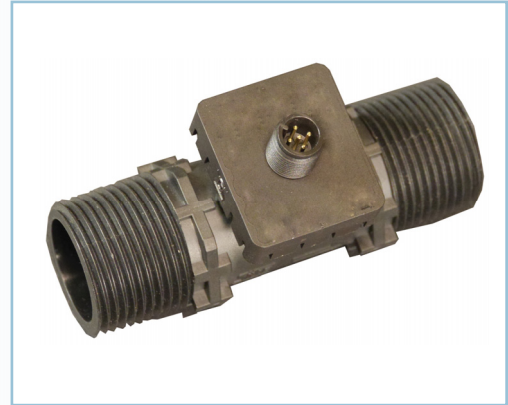
Overview

The H2O Degree Vortex flow sensors measure flows of liquid by detecting the local velocity of the flow through the pipe.

Vortex flow meters have no moving parts and are compatible with H2O Degree's wireless mesh network systems.

Features

- Solid-state flow sensor for liquids with no moving parts.
- Rugged glass fiber reinforced plastic ensures highest strength and performance.
- Completely encapsulated piezoceramic pick-up to detect the vortices.
- Wide measuring span (1:20).
- Max. medium temperature up to 194 Degrees Farenheit.
- Temperature sensor integrated.
- Analog or pulse output signals for flow and/or temperature.
- Maximum 10.6 gpm.
- Two year warranty.



Ordering Information

Model	Description
V1000	1/2" Vortex Flow Sensor 8-30 Volt
V1001	1" Vortex Flow Sensor 8-30 Volt
CA1015	Vortex cable with RJ-45 Connector

9/2015



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Technical Specifications

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Technical data	VVX 15	VVX 25
Size	DN 15	DN 25
Flow range	0.5...10.6 gpm	1.8...39.6 gpm
Process connection	½" NPT	1" NPT
Inner diameter	Ø 0.51"	Ø 0.98"
Accuracy	±2 % of range	
Reproducibility	±0.2 % of range	
Nominal pressure	145 psi	
medium temperature	Max. 194 °F	
Materials		
Body / tube	PPS Fortron® 40 % GF	
Pick-up	ETFE Tefzel®	
Cover plate	PA 6.6	

Electrical data	Pulse output	Analog output
Flow Output Signal <ul style="list-style-type: none"> • Pulse rate VVX 15 • Pulse rate VVX 25 	Square wave signal pulse duty ratio 50:50 Signal current max. 20 mA 2000 pulses per gallon optional 12...4000 pulses per gallon 400 pulses per gallon optional 4...2000 pulses per gallon	Analog signal 0.5...3.5 V
Temperature Output Signal	NTC 10K or Pt1000	Analog signal 0.5...3.5 V or NTC 10K or Pt1000
Power supply	8...30 V DC or 5 V DC ±5 %	5 V DC ±5 %
Current consumption	< 10 mA	< 15 mA
Electrical connection	5-pin plug M12x1 or RAST 2.5	
Protection class (according to DIN EN 60529)	M12x1 RAST 2.5	➔ IP 65* ➔ IP 20*

*Only with connected cable socket.

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