

Features

- The H2O Degree Vortex Flow Sensor is a solid-state flow sensor for liquids with no moving parts.
- Rugged glass fiber reinforced plastic ensures the 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 Fahrenheit.
- Temperature sensor integrated.
- Analog or pulse output signals for flow and/or temperature.
- Maximum 10.6 gpm.
- Two year warranty.



Overview

The H2O Degree Vortex Flow Sensor measures flows of liquid by detecting the local velocity of the flow through the pipe.

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

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 |

Technical Specifications

| 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.