VTEC LASERS & SENSORS

VTEC ULTRASONIC FLOW METER

VTEC ultrasonic flow meter provides market-leading performances with easy installation and use. The measuring principle of this flow meter is based on the difference of the transit time of ultrasonic signals. The ultrasonic signals are transmitted between two transducers which work as both a sound transmitter and a sound receiver. The difference of transit time occurs when the fluid moves and is directly proportional to the flow velocity.

FEATURES

- Easy installation
- Accuracy ±1%
- Repeatability ±0.2%
- Positive/negative/net flow totalizer
- RS 485/4-20 mA output
- Built-in calibration

APPLICATIONS

- Flow measurement in water distribution network
- Water and waste water management
- Petroleum process monitoring and control
- Food and beverage processing
- Pipeline leakage detection

SPECIFICATION

Parameters	Values
Linearity	±1%
Accuracy	±1% of reading at rates > 0.2 m/s
Repeatability	±0.2%
Velocity	±0.01-±30 m/s, bi-directional
Measurement period	0.5 s
Outputs	Analogue output: 4-20 mA or 0-20 mA current output
	RS 485 serial port
Enclosure	IP 65 (NEMA 4X)
Transducer	Clamp-on
	S1: for pipe size DN15-DN100 mm
	M1: for pipe size DN50-DN700 mm
Liquid temperature	0˚C-100˚C
Pipe material	All metals, most plastics, fiber glass, etc. Allow pipe liner.
Transducer protection level	IP 68
Power	AC: 220 V; DC: 8 V-36 V

Note: VTEC reserves the right to change the detail specifications and designs as may be required to permit improvements in its products. Specifications are subject to change without notice.

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