

DOPPLER ULTRASONIC FLOWMETER

INSERTION



Designed to measure volumetric flow of solids-bearing or aerated liquid within closed conduit.

INSERTION DOPPLER ULTRASONIC FLOWMETER



Features

- Do not need to shut down the pipe flow when installing the transducers.
- It is suitable for pipe sizes ranging from 65 to 4000mm.
- For dirty liquids, a certain amount of air bubbles or suspended solids shall be contained.
- Excellent low flow rate measurement ability, low to 0.05m/s.
- A wide range of flow measurement, high flow rate can reach 12m/s.
- High-temperature transducer is suitable to liquids of $-35^{\circ}\text{C} \sim 150^{\circ}\text{C}$.
- User-friendly configuration.
- 4-20mA, Relay and OCT outputs.
- Accuracy: 2.0% Calibrated span.

Specifications:

Transmitter:

Measurement principle	Doppler ultrasonic
Resolution	0.25mm/s
Repeatability	0.2% of reading
Accuracy	0.5% - 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Power Supply	AC: 85-265V DC: 24V/500mA
Enclosure type	Wall-mounted
Degree of protection	IP66 according to EN60529
Operating temperature	-20°C to +60°C
Housing material	Fiberglass
Measurement Channels	1
Display	2 line x 8 characters LCD, 8-digit rate or 8-digit total (resettable)
Units	User Configured (English and Metric)
Rate	Rate and Velocity Display
Totalized	gallons, ft ³ , barrels, lbs, litres, m ³ , kg
Communication	4-20mA, Relay and OCT output
Keypad	4pcs buttons
Size	244(h)*196(w)*114(d)mm
Weight	2.4kg

Transducer:

Transducers Type	Insertion
Degree of protection	IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35°C~85°C High Temp.: -35°C~150C
Pipe diameter range	65-4000mm
Transducer Size	φ58*199mm
Material of transducer	SUS304 (std temp); SUS304 + Peek (high temp)
Cable Length	Std: 10m

Dill-Tech



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