

ULTRASONIC FLOWMETER

INSERTION



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General:

Doppler Insertion Ultrasonic Flow Meter can measure metal or plastic pipes with a certain amount of air bubbles or suspended solids.

Advanced technique allows this instrument to operate with high reliability and low maintenance. Insertion transducers permit the instrument to be installed without interrupting system pressure or flow.

Features:

- 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 $-35^{\circ}\text{C} \sim 150^{\circ}\text{C}$.
- Do not need to shut down the pipe flow when installing the transducers
- 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 to 12m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors & at least 20% of 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:

Transducer Type	Insertion
Degree of protection	IP67 and IP68 according to EN60529
Suited Liquid Temperature	Std. Temp: -35°C~85°C High Temp: -35°C ~ 150°C
Pipe diameter range	65-4000
Transducer Size	58* 58*199mm
Material of transducer	Stainless Steel
Cable Length	Std: 10m

Configuration Code:

Insertion Doppler Ultrasonic Flowmeter	
Power Supply	
A	110VAC
B	220VAC
D	24VDC
S	65W Solar supply (including solar board)
Output Selection 1	
N	N/A
1	4-20mA
2	Relay
3	OCT
Output Selection 2	
Same as above	
Sensor Type	
D	Standard Insertion transducer (DN65-DN4000)
Transducer Temperature	
S	-35 ~ 85°C (for short periods)
H	-35 ~ 150°C
Pipeline Diameter	
DNXX e.g. DN65 - 65mm, DN1000 - 1000mm	
Cable length	
10m	10m (standard 10m)
Xm	Common cable Max 300m (std. 10m)
XmH	High temp. cable Max 300m

-A - 1 - N/LDI - D - S - DN100 - 10m (example configuration)

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