



TSONIC 901DI

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

- Operate with high reliability and low maintenance
- Installed without interrupting system pressure or flow.
- Pipe sizes ranging from 65 to 4000mm
- 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°C ~ 150°C
- User-friendly configuration
- 4-20mA, Relay Totalizer and Relay Alarm outputs
- Accuracy: 2.0% Calibrated span

Applications :

- Raw sewage
- Activated sludge
- Ground water
- Pulp and paper slurries
- Chemical slurries
- Drainage
- Mining recirculation



Specifications: Transmitter

Measurement principle	Doppler ultrasonic
Resolution	0.5mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/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 × 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, liters, m ³ ,kg
Communication	4-20mA,relays for Totalizer and alarm output
Keypad	4pcs buttons
Size	244(h)*196(w)*144(d)mm
Weight	2.4kg



Specifications: 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~150°C
Pipe diameter range	65-4000 mm
Transducer Size	58*58*29mm
Material of transducer heads	Stainless steel
Cable Length	Std: 10m

Selection

TSONIC 901DI	Insertion Series Doppler Ultrasonic Flowmeters
Power supply	
A	85-265VAC
D	24VDC
S	65W Solar supply (including solar board)
Output Selection 1	
N	N/A
1	4-20mA
2	Relay
3	OCT
Sensor Type	
S	Standard Insertion Transducer (DN65-4000)
Transducer Temperature	
S	-35~85°C
H	-35~150°C
Pipeline Diameter	
DNX	e.g.DN100—100mm, DN1000—1000mm
Cable length	
10m	10m (standard 10m)
Xm	Max 300m(standard 10m)
XmH	High temp. cable Max 300m