



Wall-mounted Doppler Ultrasonic Flowmeter

TSONIC 920DC Wall-mounted Doppler Ultrasonic Flow Meter is designed to measure volumetric flow of liquid within closed conduit, the pipe line must be full of liquids, and there must be a certain amount of air bubbles or suspended solids in liquid.

The Doppler ultrasonic flow meter can display flow rate and flow totalizer, etc., and is configured with 4-20mA, Relays, OCT outputs.



Features

- ◆ It is suitable for pipe sizes ranging from 40 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°C ~ 200°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

Applications

- ◆ Raw sewage
- ◆ Activated sludge
- ◆ Groundwater
- ◆ Pulp and paper slurries
- ◆ Chemical slurries
- ◆ Drainage
- ◆ Mining recirculation



Specifications: Transmitter

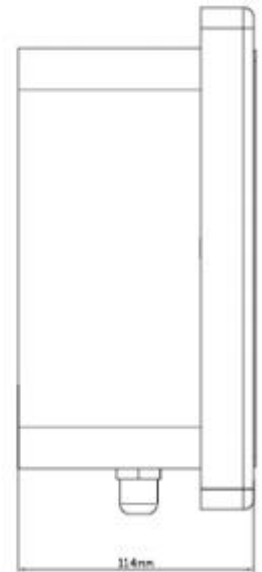
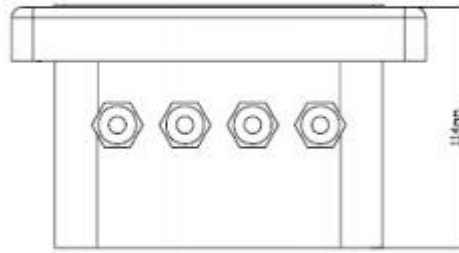
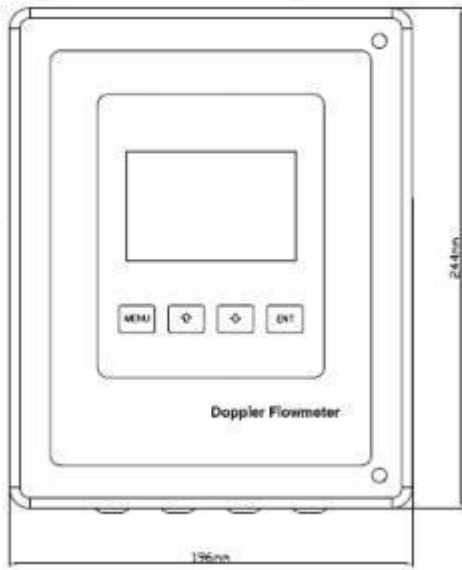
Measurement principle	Doppler ultrasonic
Resolution	0.5mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 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

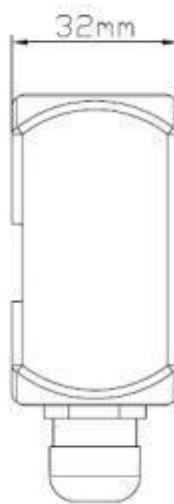
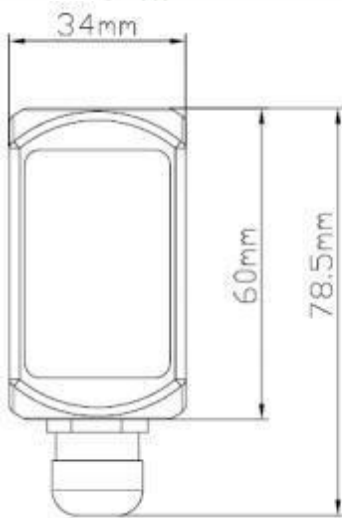
Transducers Type	Clamp-on
Degree of protection	IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35°C~85°C High Temp.: -35°C~150°C
Pipe diameter range	65-4000 mm
Transducer Size	60*34*32mm
Material of transducer heads	Aluminum for standard temp sensor and peek for high temp sensor
Cable Length	Std: 10m



Dimensional Sketches



Transducer:





Images:



Transmitter



Transducer



S-S Belt



Couplant



Selection

TSonic 920DC	Wall-mount Doppler clamp-on 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		
D	Standard Insertion Transducer (DN40-4000)	
Transducer Temperature		
S	-35~85°C	
H	-35~200°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	