

ULTRASONIC FLOW METER

FIXED TYPE ULTRASONIC CLAMP-ON

Flow Measurement

& Monitoring



DESCRIPTION

The ultrasonic clamp-on flow meter is fixed installation unit to be used in every industrial application. It is based on clamp-on transit-time flow measurement principle. In general, the liquid should be full in the pipe and should contain very little particles or bubbles. The ultrasonic flow meter utilizes proprietary technologies such as advanced signal processing, low-voltage transmitting, and small signal receiving with self-adapting. It is also incorporates the latest surface-mounting semiconductors and PCB design techniques. The flow meter has also a built-in data-logger, which allows storage of 2000 lines of data.

TECHNICAL FEATURES

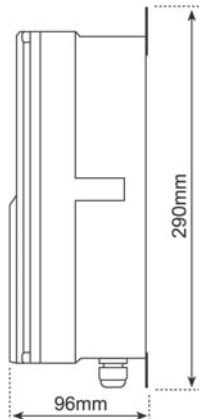
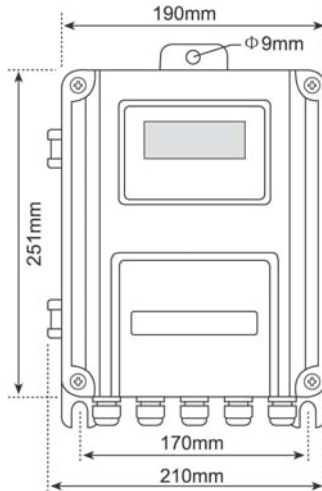
Accuracy	± 1 to 3%
Linearity	0.5%
Repeatability	0.2%
Converter	Transit Time
Display	2 lines of 20 characters; Back lit LCD display
Power Supply	110 – 240V AC (HV) / 24V DC (LV)
Operating Temperature	Transducers: -40 to 70°C; Converter: -10 to 55°C
Storage Temperature	-40 to 70°C
Protection	Transmitter IP65 ; Transducer IP68
Data Logger	2000 lines of data
Transducer Mounting	Magnetic or chain or strap
Transducer Cables	5 m standard, optional length up to 500 m
Input	2 Transducer plugs, 2 Analogue channels 4-20mA, 3 Analogue channels additional are optional
Output	RS485
Measurement Parameters	Instantaneous flow rate, Velocity Totalized flow (4 totalizers)

FEATURES

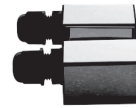
- ✓ Economic, non intrusive, flow measurement
- ✓ Thermal energy calculation (BTU)
- ✓ Easy set up and installation
- ✓ Wide range of pipe sizes and materials
- ✓ Suitable for lined pipes
- ✓ Velocity, volumetric and totalised flow
- ✓ Key pad for easy operation
- ✓ Digital output configurable
- ✓ Analogue output
- ✓ No pressure drop, no moving parts, no leaks and no contamination



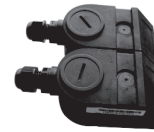
DIMENSION/DRAWING



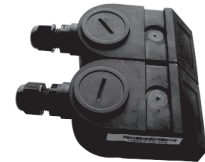
Transducers:



S1



M1



L1

CODES AND REFERENCES

Code	Reference	Description
2000	UFM-1001F	Ultrasonic Transmitter
S01	S1	Transducer with Range: ½" to 4" (DN15 to DN100)
M02	M1	Transducer with Range: 2" to 28" (DN50 to DN700)
L03	L1	Transducer with Range: 12" to 240" (DN300 to DN6000)
T001	HS	Transducer with Small Rack
T002	HM	Transducer with Medium Rack
T003	SIH	Transducer with Range: ½" to 4" (DN15 to DN100) High Temperature 0-160°C
T004	MIH	Transducer with Range: 2" to 28" (DN50 to DN700) High Temperature 0-160°C

