

Ultrasonic Flowmeters Series



Ultrasonic Measuring of your Liquid Flow



Introduction

Ultrasonic Series 7700 UFM is a new range of Transit-Time based Ultrasonic Flowmeters. The Flowmeters are suitable for pipes with diameters of 12 to 4570mm. They feature advanced non-invasive Flow Measurement technology providing a measuring system with unsurpassed accuracy, versatility and ease of installation. Clamp-on and Insertion Type Flowmeters are available under Ultrasonic Flowmeter Series. The Flowmeters are suitable for virtually all type of liquids.

Applications

- Water
- Secondary sewage, waste treatment
- Chemicals(Alcohol, Acids)
- Beverage, Food and Pharmaceutical
- Petroleum products
- Various Oils
- Marine operation and maintenance
- Pipeline leak detection, inspection, tracking and collection
- HVAC, Energy measurement and balancing.

Operation

The Ultrasonic Transit-time Flowmeters work on the principle of measuring the time of flight difference between an ultrasonic pulse sent in the flow direction and an ultrasound pulse sent opposite the flow direction. This time difference is a measure for the average velocity of the fluid along the path of the ultrasound beam. By using the absolute transit time and the distance between the ultrasound transducers, the current speed of flow can be easily found. The Transit-Time based Flowmeters are tolerant of liquids with small amount of air bubbles or suspended solids.

UFM 7720 : Clamp on Type Flowmeters (wall Mount)



Salient Features

- Non-invasive Clamp-on Technology,
- No pressure drop, moving parts, leakage or corrosion.
- Measurement independent of Fluid properties
- Easy to install
- No pipe cutting or process interruption
- Wide Bi-directional Flow range

Specifications

Power Supply	: a) 24 V DC (+/-) 20% b) 110 V AC (+/-) 15% c) 240 V AC (+/-) 15% (Please Specify)
Velocity	: \pm 12 m/s, Bi-directional
Display	: 4 Lines, 16 Characters LCD with Back light Flow rate, Velocity, Totaliser
Rate / Totaliser Units	: User Configurable (English and Metric) Gallons, ft ³ , barrels, lbs, litres, m ³ , kg
Output	: 4 - 20mA, Pulse, Relay, RS232C or RS485
Accuracy	: 1.0% of reading at rates > 0.5m/s 0.005 m/s of reading at rates < 0.5m/s
Sensitivity	: Flow rate: 0.001ft/s (0.0003 m/s)
Repeatability	: 0.2% of reading
Dimensions and Weight	: Std.: 241 * 193 * 76.5 mm, Weight < 2.5 kg
Security	: Keypad lockout, access code enable
Liquid Types Supported	: Virtually almost any liquid containing less than 2% total suspended solids (TSS) or aeration
Suited Liquid Temperature	: Std. Temp. Transducer : - 40°C to 121°C High Temp. Transducer : - 40°C to 250°C
Cable Length	: Std : 6m (Maximum upto 300m)
Pipe Size	: S Transducer : 12 - 50 mm M Transducer : 40 - 1000 mm L Transducer : 1000 - 4570 mm
Transducer Dimensions and Weight	: S : Size : 42*25*25; Weight < 0.2 kg M : Size : 60*43*43; Weight < 0.5 kg L : Size : 80*53*53; Weight < 1.0 kg
S-S Belt	: According to the pipe line size.

UFM 7730 : Clamp on Type Flow meters (Portable)



Salient Features

- Portability
- Compact Size and easy to use
- Non-invasive Clamp-on Technology
- Measurement independent of Fluid properties
- No pipe cutting or process interruption
- Wide Bi-directional Flow range
- No pressure drop, moving parts, leakage or corrosion

Specifications

Power Supply	:	3 AAA NiMH built-in batteries (12 hours of operation) and 100 - 240 V AC for the Charger
Velocity	:	± 12 m/s, Bi-directional
Display	:	4 Lines, 16 Characters LCD with Back light Flow rate, Velocity, Totaliser
Rate / Totaliser Units	:	User Configurable (English and Metric) Gallons, ft ³ , barrels, lbs, litres, m ³ , kg
Output	:	RS232C
Accuracy	:	1.0% of reading at rates > 0.5m/s 0.005 m/s of reading at rates < 0.5m/s
Sensitivity	:	Flow rate: 0.001ft/s (0.0003 m/s)
Repeatability	:	0.2% of reading
Security	:	Keypad lockout, access code enable
Dimensions and Weight	:	100 * 204 * 34 mm Weight: < 0.6 kg
Liquid Types Supported	:	Virtually most any liquid containing less than 2% Total suspended solids (TSS) or aeration
Liquid Temperature	:	Std. Temp. Transducer: - 40°C to 121°C High Temp. Transducer: - 40°C to 250°C
Pipe Size	:	S Transducer : 12 - 50 mm M Transducer : 40 - 1000 mm L Transducer : 1000 - 4570 mm
Transducer Dimensions and Weight	:	S : Size : 42 * 25 * 25 mm; Weight : < 0.3 kg M : Size : 60 * 43 * 43 mm; Weight : < 0.6 kg L : Size : 80 * 53 * 53 mm; Weight : < 1.0 kg
Portable Case	:	Size : 445*290*130; Weight : < 3.5 kg
Flexible Belts	:	2 Bundles

ZEST ENGINEERING

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