

Ultrasonic Clamp-on & Insertion Flow Meter



General Description

Ultrasonic Clamp-On and Insertion Type Flow Meters redefine precision in flow measurement. Designed for accuracy and ease of use, these meters ensure efficient monitoring without disrupting the flow process. From industrial applications to water management, they provide a reliable solution for diverse sectors. Their innovative design allows for non-intrusive installation, eliminating the need for pipe cutting or flow interruption. Crafted with high-

quality materials such as SS (Stainless Steel), these meters guarantee durability and resistance to harsh environments, ensuring longevity and consistent performance.



Features

- Two piece design - Ultrasonic Level Transmitter and Flow Computer
- Non-intrusive installation with clamp-on design
- Accurate and reliable flow measurement
- Robust construction with SS (Stainless Steel)
- Suitable for a variety of fluids and applications

Applications

- Industrial process monitoring
- Water and wastewater management
- Pipeline leak detection, inspection, tracking and collection
- Beverage, Food and Pharmaceutical
- HVAC systems
- Energy and utility management
- Chemical processing

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.

Technical Specifications

Supply	230 V AC 50Hz / 24 V DC
Output	4-20 mA, RS485
No. of channels	5
Accuracy	+/- 0.5% FS
Sensitivity	0.001 ft/sec
Repeatability	0.2%
Degree of protection	IP-65
Mounting	Clamp-on/Insertion
Pipe diameter	15mm to 6000mm
Display	LCD Display
Operating Liquid Temperature	Standard: -40°C to 120°C High: -40°C to 250°C
Maximum liquid velocity	+/- 12 m/s (bidirectional)
Cable length	6m (Can be extended up to 300 m)

Note: Due to continuous improvement, specifications are subject to change without prior notice.