

Ultrasonic Flow Meter

With the advanced large scale integrated circuit technology, it is well suited to most industrial environments for continuous flow measurement of homogeneous liquid. Although the system was designed principally for clean liquid applications, the instrument is tolerant of liquids with small amounts of gas/air bubbles or suspended solids found in most industrial environments. The flow meter use state-of-the-art digital electronics and very powerful ultrasonic transducers to give high accuracy for pipe . We offer ultrasonic flowmeters that is used to measure fluids like water, oil, chemical liquid and other sound conducting liquid

Principle of Measurement

The acoustic method of discharge measurement is based on the fact that the propagation velocity of an acoustic wave and the flow velocity are summed vectorially. It follows that an acoustic pulse sent upstream travels at a lower absolute speed than an acoustic pulse sent downstream. By measuring the times of the traverse of pulses sent in the two directions, the average axial velocity of the fluid crossing the path of the pulses is determined.



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Applications

Applications in such fields as power plant (nuclear electricity, fire power and electric power), thermal power, heating, heat supply, metallurgy, mine, petroleum, chemical industry, food, medication

Brief features

- High accuracy. $\pm 1\%$.
- Pipe size range (1"~48")
- Suitable for PVC, copper, stainless steel, carbon steel
- Wide flow range (0.03~16ft/s), bi-directional
- Easy and low-cost installation. No need for hole drilling, pipe cutting, etc.
- Non-intrusive



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