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Our experienced consultants will assist you in choosing the proper flow meter for your application. And they will be pleased to offer installation guidance to assure that the flowmeter selected will perform as accurately as possible. Additionally, they will stand ready to support you with any after-sale assistance that you may require.

Ultrasonic Flowmeter (Clamp-on Ultrasonic Flowmeter)

Ultrasonic Flowmeter is designed to measure the fluid velocity of liquid within a closed full pipe. The transducers are a non-intrusive, clamp-on type, which will provide benefits of non-fouling operation and easy installation.

Transit-time flowmeter utilizes two transducers that function as both ultrasonic transmitters and receivers. The transducers are clamped on the outside of a closed pipe at a specific distance from each other. The transducers can be mounted in V-method where the sound transverses the pipe twice, or W-method where the sound transverses the pipe four times, or in Z-method where the transducers are mounted on opposite sides of the pipe and the sound crosses the pipe once. This selection of the mounting method depends on pipe diameter and liquid characteristics. The flow meter operates by alternately transmitting and receiving a frequency modulated burst of sound energy between the two transducers and measuring the transit time that it takes for sound to travel between the two transducers.

Linearity: 0.5%, Repeatability: 0.2%, Accuracy: ± 1 %. Easy to operate. Several type transducers for selection, measuring pipe size is from DN15mm to DN6000mm Adopt low voltage, multi-pulse technology to improve accuracy, useful life and reliability. Powerful Recording Function, record the totalizer data of the last 64 days/64 months/5 years. The wall-mounting flow meter can be applied to a wide range of pipe flow measurements. Applicable liquids include pure liquids as well as liquid with small quantity of tiny particles.

Examples are:
Water (hot water, chilled water, city water, sea water, waste water, etc.);
Sewage with small particle content;
Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.);
Chemicals (alcohol, acids, etc.);
Plant effluent;
Beverage, liquid food;
Ultra-pure liquids;
Solvents and other liquid

Items		Specifications
Main unit	Accuracy	Better than ±1%
	Repeatability	Better than 0.2%
	Principle	Transit-time measuring principle
	Measurement Period	500ms
	Display	LCD with backlight, display accumulated flow/Temp, instantaneous flow/Temp, velocity, time etc.
	Output	Analogue output: 4-20mA or 0-20mA current output. Impedance 0~1kOhms. Accuracy 0.1%.
		OCT output: Frequency signal (1~9999HZ)
		Relay output: over 20 source signals (no signal, reverse flow etc.)
		RS485 serial port
	Input	Three analogue inputs
		Three-wire PT100 resistor input (optional)
	Other functions	Automatically record the totalizer data of the last 64 days / 64 months / 5 years: The power-on time and corresponding flow rate of the last 64 power on and off events. Allow manual or automatic flow loss compensation The instrument working status of the last 64 days
pipe	material	Steel, stainless steel, cast iron, copper, PVC, aluminum, etc. Liner is allowed
	Size	DN32--DN1000
	Straight pipe section	In the upstream it must be beyond 10D, in the downstream it must be beyond 5D, in the upstream the length must be beyond 30D from the access of the pump. (D stands for pipe diameter)
Liquid	Types	Water, sea water, industrial sewage, acid & alkali liquid, alcohol, beer, all kinds of oils which can transmit ultrasonic single uniform liquid
	Temperature	Standard: -30 - 90centigrade, High-temperature: -30 - 160centigrade
	Turbidity	Less than 10000ppm, with a little bubble
	Flow Direction	Bi-directional measuring, net flow/heat measuring
Environment	Temperature	Main Unit: -30 - 80centigrade
		Transducer: -40-110centigrade, Temperature transducer: select on enquiry
	Humidity	Main Unit: 85% RH
		Transducer: water-immersible, water depth less than 3m

Cable	Twisted Pair Line, standard length of 20m, can be extended to 500m (not recommended); Contact the manufacturer for longer cable requirement. RS-485 interface, transmission distance up to 1000m
Power Supply	AC220V or DC24V
Power Consumption	Less than 1.5W
Protocols	MODBUS, M-BUS, Fuji extended protocol and other factory protocol

To ensure precise measurement, and best flow instrument selection, please provide as much information as possible about your application.
It will be helpful to include the medium to be measured, the pipe diameter or schedule, the pressure, and the maximum flow rate.
Precise measurement, prestigious business.

We look forward to building a long-term business relationship with you.

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