

TUF-2000B SERIES

Wall mounted Ultrasonic Flowmeter



Features

- Principle: Ultrasonic transit-time
- Measurement accuracy $\pm 1\%$
- Converter protection class IP67
- Transducer protection class IP68
- Heat energy measurement by connecting PT100 sensors
- SD card datalogging
- 25mm to 6000mm pipe diameter
- Power supply: 85 – 230 VAC or 24VDC
- Flow rate: 0 to $\pm 7\text{m/s}$ (best $< 5\text{m/s}$)

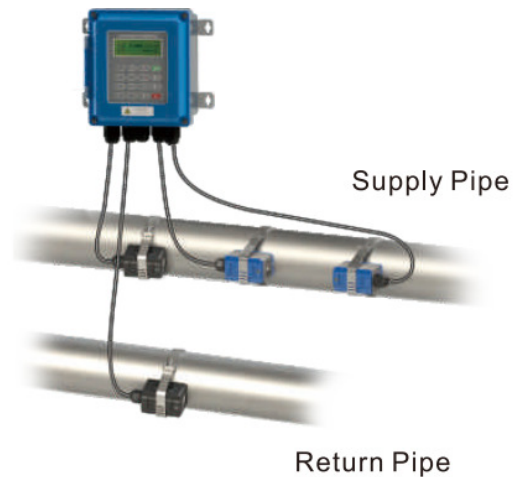
Principle

Transit time ultrasonic flow meters measure the time difference between when an ultrasonic signal is transmitted from the first transducer until it is received by the second transducer. It works as an emitter and a receiver. These sensors are clamped onto the outside of a pipe wall without breaking the line or interrupting the flow.

Standard requests for steady flow are:

- The pipe should be far away from pump outlet and half-open valve. 10D to upstream and 50D to downstream.
- 30D to pump outlet and half-open valve

Heat energy measurement



Three models of transducers

TS-2 (Small) TS-2-HT	DN25 – DN100	-30 to +90°C, -30 to +160°C
TM-1 (Medium) TM-1-HT	DN50 – DN700	-30 to +90°C, -30 to +160°C
TL-1 (Large) TL-1-HT	DN300 – DN6000	-30 to +90°C, -30 to +160°C



Free Call 0800 323 327

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Specification

Items		Performance & Parameter
Converter	Accuracy	± 1%
	Display	2 x 20-character LCD with backlight, support language of Chinese, English, Italy
	Repeatability	Better than 0.2%
	Signal output	Analogue output: 4-20mA current output. Impedance 0~1 KΩ Accuracy 0.1%.
	Signal input	PT100 temperature sensor for heat / energy measurement
	Dimension	132 x 150 x 85 mm
Pipe	Material	Carbon steel, stainless steel, cast iron, ductile iron, copper, PVC, aluminum, asbestos, fiberglass
	Diameter	25 – 6000mm
	Straight pipe	Transducer installation should be satisfied Upstream 10D and downstream 5D on normal steady flow
Medium	Medium	Single liquid such as: Water, Sea Water, Kerosene, Gasoline, Fuel oil, Crude Oil, Propane at -45°C, Butane at 0°C, Diesel Oil, Caster Oil, Peanut Oil, #90 Gasoline, #93 Gasoline, Alcohol, Hot water at 125°C
	Temperature	-30 to +90°C, -30 to +160°C (high temperature sensor)
	Turbidity	No more than 10,000ppm and less bubble
	Flow rate	0 to ±7m/s
Power	Supply	85 -240VAC / 24VDC
	Consumption	1.5W

Flow meter comes with 1 x main unit (converter), 1 x set of sensors based on the selection(transducers), 10m signal cable, built-in SD card module and User manual.

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