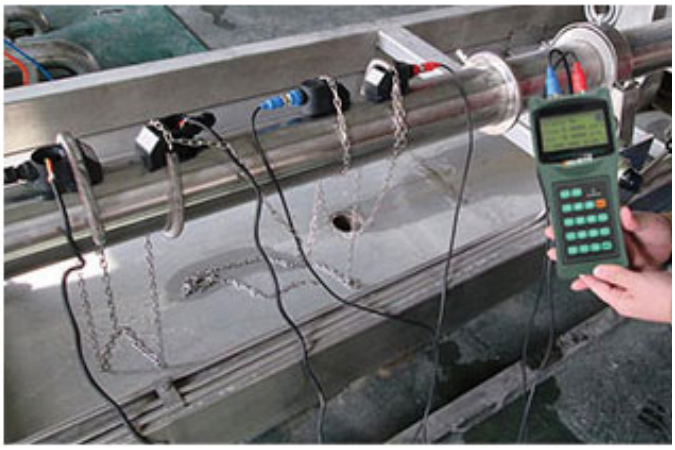
Handheld Ultrasonic Flowmeter

Handheld type ultrasonic flow meter consists of a flow transmitter and a clamp-on transducer. With the latest electronics and the digital signal processing technology. Using ultrasonic transit time techniques, handheld ultrasonic flow meter is controlled by a micro-processor system which contains a wide range of data that enables it to be used with pipes with an outside diameter ranging from 15 mm up to 6000 mm and constructed of almost any material. The instrument will also operate over a wide range of fluid temperatures.

Clamp-on type sensor easily mountable on existing pipe Suited for a wide range of liquids, for example, deionized water, cooling water, chemical solution, drinking water, sea water, oil, tap water, hot water, industrial water, corrosive liquids.



Compact and Portable, Economical and Practical, can be used for pipeline monitoring, pipeline inspection, easy to carry. non-intrusive technology, no need to cut pipe, compatible with many material pipe.

Product Packaging

- Ultrasonic Flowmeter Host
- External Clamp Sensor
- Couplant
- Connection Cable for Downstream
- Charger
- Measuring Tape
- Connection Cable for Upstream
- RS232 Cable

Ultrasonic Flowmeter Host

External Clamp Sensor

Couplant

Connection Cable (Downstream)

Charger

Measuring Tape

Connection Cable (Upstream)

RS232 Cable

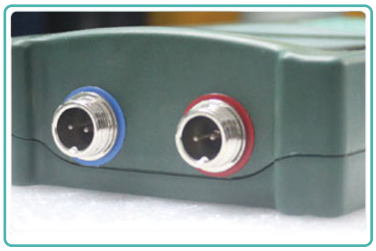
Compatible with Many Pipe Material

Even uniform pipeline or liner is allowable.

Carbon Steel pipe | Galvanized pipe | Stainless Steel pipe | FRP pipe | Copper pipe

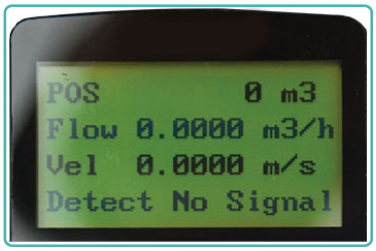
High Quality Aerial Plug

Transducer Interface, fast connection, easy operation.



HD LCD Display

Display accumulated flow, instantaneous flow, flow velocity, working status,build-in data storage.



Delicate Button Cover

Exquisite diaphragm button Response quickly, good keyboard tactile, long working life.

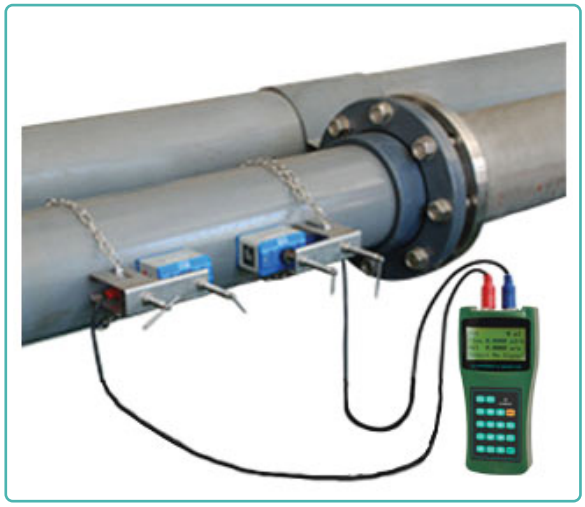
Standard RS232 Communication Interface

Support host computer communication transmission, charging equipment

Technical Performance Parameters	
Linearity	0.5%
Repeatability	0.2%
Accuracy	± 1% of reading at rate > 0.2 mps
Response Time	0 - 999 seconds, User-Configurable
Velocity	± 32 m/s
Pipe Size	DN5 - DN6000 mm
Rate Units	Meter, Feet, Cubic Meter, liter, Cubic Feet, USA Gallon, Imperial Gallon, Oil Barrel, USA liquid Barrel, Imperial Liquid Barrel, Million USA Gallons. Users configurable
Totalizer	7-Digits totals for net, positive and negative flow respectively
Liquid Types	Virtually all liquids
Security	Setup values Modification Lockout. Access code needs unlocking
Display	4x16 Ennlish letters
Communication Interface	RS-232C, Baud-rate : from 75 to 57600. Protocol made by the manufacturer and compatible with that of the FUJI ultrasonic flowmeter. User Protocal can be made on enquiry
Transducers	Model M1 for standard, other 3 models for optional
Transducer Cord Length	Standard 2x5 meters, optional 2x10 meters
Power Supply	3 AAA Ni-H built-in batteries. When fully recharged it will last over 10 hours of operation. 100V-240VAC for the charger
Data Logger	Built-in datalogger can store over 2000 lines of data
Manual Totalizer	7-Digits press key-to-go totalizer for Calibration
Housing Material	ABS
Case Size	100 x 66 x 20 mm
Handset Weight	514 g (1.2 lbs) with Batteries

Installation Method

External clip mounting



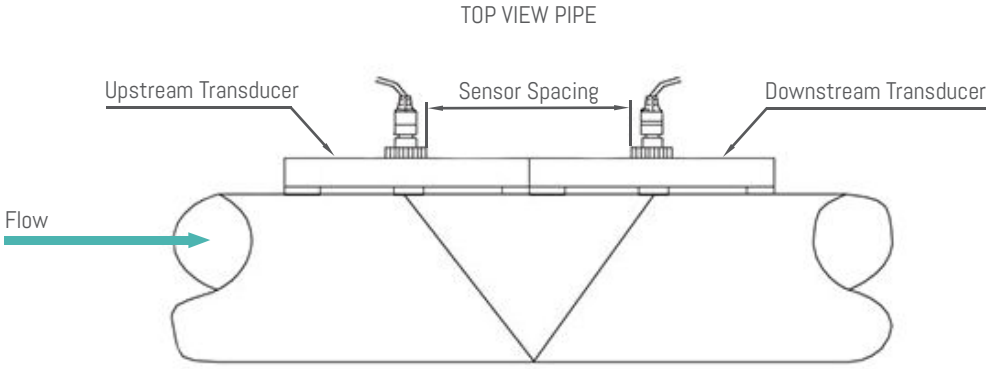
Debug complex
Not suitable for frequent testing

Bracket mounting

Simple debugging
Suitable for frequent testing

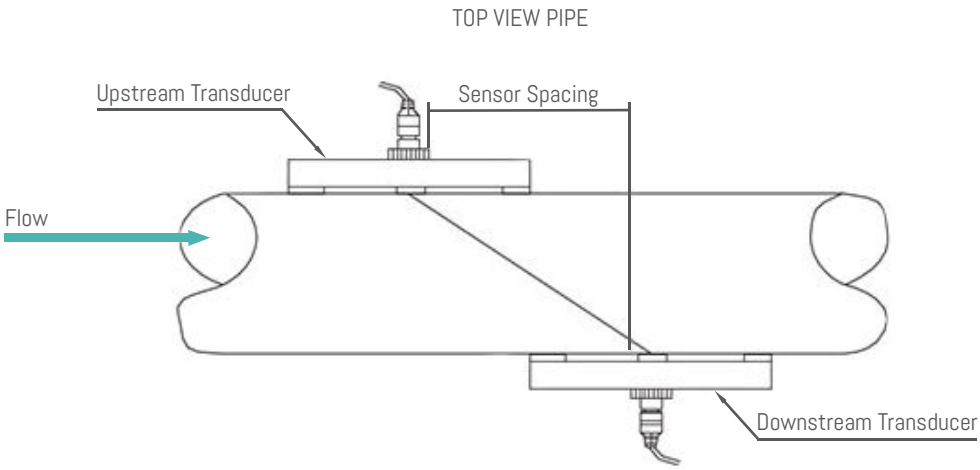
V-Method

V-method installation is the most widely used mode for daily measurement with pipe inner diameters ranging from 15 millimeter to 200 millimeter. It is also called reflective mode or method.



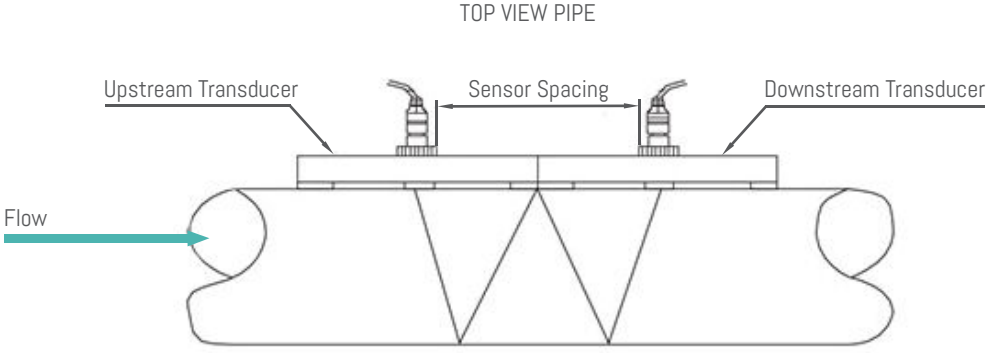
Z-Method

Z-method is commonly used when the pipe diameter is between 300 millimeters and 500 millimeters.



W-Method

W-method is usually used on plastic pipes with a diameter from 15 millimeters to 100 millimeters



Transducer Selection

Type	Photo	Specification	Measuring Range	Temperature Range
Clamp on Type		Small - Size	DN20 - DN100 mm	- 30 °C to 90 °C
		Middle - Size	DN50 - DN700 mm	- 30 °C to 90 °C
		Large - Size	DN300 - DN6000 mm	- 30 °C to 90 °C
High Temperature Clamp on Type		Small - Size	DN20 - DN100 mm	- 30 °C to 160 °C
		Middle - Size	DN50 - DN700 mm	- 30 °C to 160 °C
		Large - Size	DN300 - DN6000 mm	- 30 °C to 160 °C
Mounting Bracket Clamp on		Small - Size	DN20 - DN100 mm	- 30 °C to 90 °C
		Middle - Size	DN50 - DN700 mm	- 30 °C to 90 °C
		Large - Size	DN300 - DN6000 mm	- 30 °C to 90 °C