



MICROMTT-S

Ultrasonic flow meter

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL



MicromTT-S is a designed U type ultrasonic flowmeter for liquids. It comes with a 2.4" IPS LCD colorful display. The lowest flow rate could reach to 0.5ml/min with high accuracy, which make it be suitable for some ultra low flow applications.

It has no moving parts, it also could measure pulsating and dosing flow under the assistance of peristaltic pump damper.

TF
175

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Features

- Built-in advanced measurement chip, the time resolution could reach to 20ps
- No moving part
- 2.4" inch IPS LCD display
- Colorful display with flow rate diagram
- Hour flow totalizer bar chart
- User friendly menu Application

Applications

- Semiconductor
- Medical
- Chemical production processing
- Fine chemical production
- Cleaning industry
- Beverage industry,
- Laboratory, etc.

Application industry



Semiconductor industry



Flat glass cleaning



Beverage industry



Food industry



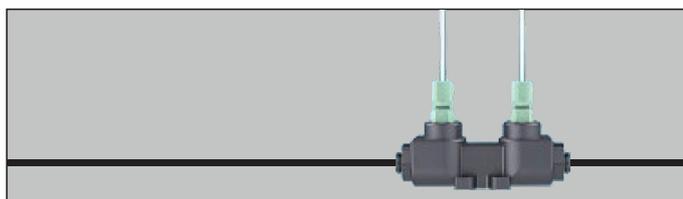
Specification

Accuracy	±0.10% (0,3m/s-5,0m/s)
Repeatability	0.3%
Response time	50 ms
Display	2,4" 320*240 IPS LCD
Language	English
Unit	Support metric unit selection, m ³ /h, LPM, ml/min, GPM, LPH. The default flow rate is ml/min.
Totalizer	7 bit flow rate totalizer
Totalizer Data	Last 10 years, 64 months, 64 days stored
Key panel	Four touch buttons
Power supply	24VDC@3W
Analog output	4-20mA, maximum load: 600 ohm
Communication	Modbus RS485
Alarm output	OCT with upper and lower limit alarm function
Relay output	30VDC@1A, switching frequency less than 2HZ (optional)
IP Protection	IP65
Pipe size	from diameter 3 mm to 12.7 mm
Sensor Body Material	UPVC, PFA (optional)
Ambient temperature	-10°C÷-60°C
Fluid temperature	-10°C÷-50°C
Ambient humidity	RH 0-95%, no condensation
Viscosity	Less than 300CST (mm ² /s)
Cable length	2,0 m (up to 20 m on request)

Installation steps



1 Choose the right measurement position, cut the pipe.

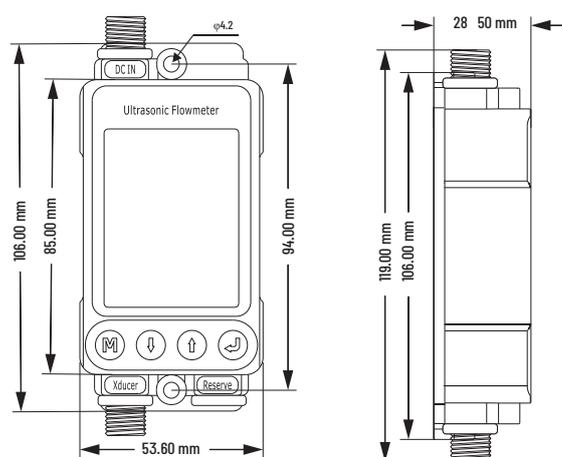


2 Insert the pipe into both ends of the sensor part. Please pay attention to the inlet and outlet.

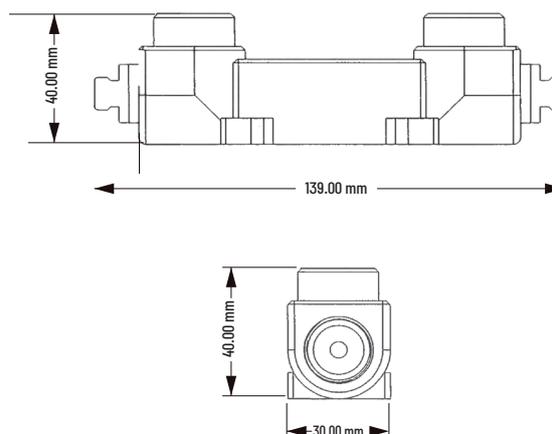


3 Connect the transmitter.

Product Dimension



Transmitter dimension



Sensor dimension

Selecting the installation location

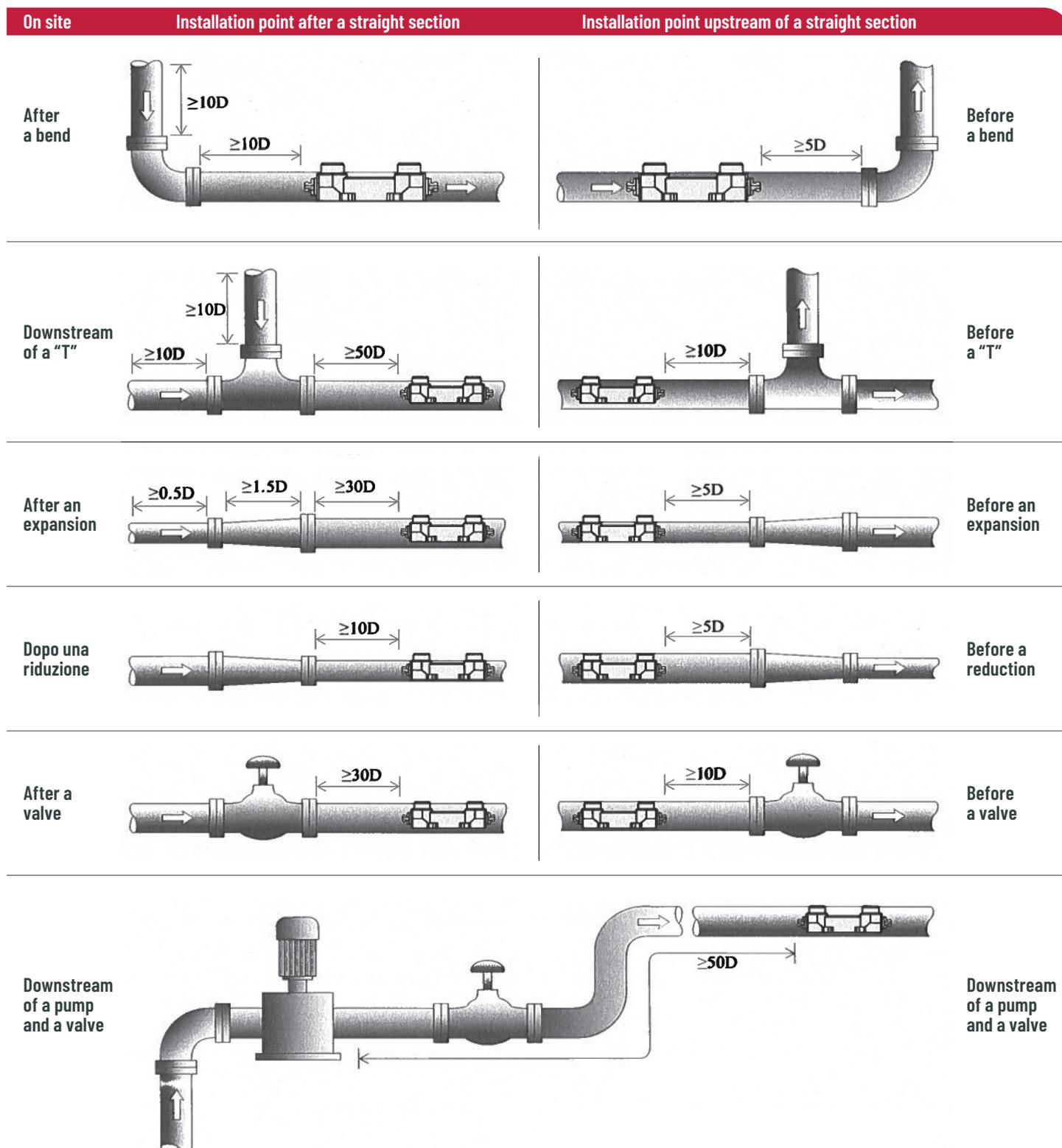
Choose a pipe section, which is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.

Ensure that the pipe surface temperature at the measuring point is within the transducers temperature limits.

Consider the inside condition of the pipe carefully, if possible, select a section of pipe where the inside is free excessive corrosion or scaling.

Choose a section of sound conducting pipe.

Examples acceptable measurement site selections are illustrated on the figure on the below:



Nota: D is the external diameter of the pipe