

Focus On Ultrasonic Flow Meter R&D



Clamp On Type- Small Pipe Size Solution

Ultrasonic Flow Meter









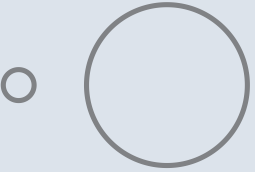
With Temperature Sensor

Product Features

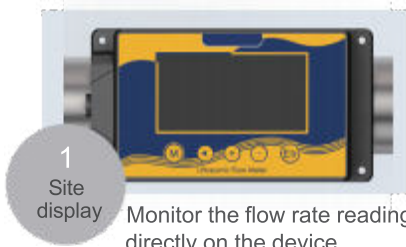
- Easily and friendly for installation and operation. It only takes a few minutes, from the start of installation to using the flow meter.
- adopts a new external clamp design, which could get the flow rate without touch the measurement medium. Compared with other traditional flow meter, this could avoid pressure loss or media contamination problems.
- As the advantage of a clamp on flow meter, no need to cut off the pipe or long time stop the equipment, save the cost of time and labor costs.
- A variety of modes are available for setting and flexibility. One set is universal for all pipe size in the measuring range, and suitable for many kinds of metal and resin pipes.
- 256*128 LCD display. Display a variety of information.
- It is optional to become an ultrasonic cooling (heat) meter/ btu meter/ energy meter to realize the monitoring and measurement of energy.



Suitable for various liquids and compatible with various pipeline materials and sizes:

| | | | | | |
|---|---|---|---|--|--|
| <p>1 Applicable fluid</p> |  <p>Water</p> |  <p>Oil</p> |  <p>Chemical</p> | | |
| <p>2 Compatible piping material</p> | <p>Metal pipe Stainless steel, Carbon steel , Copper</p> | | <p>Resin pipe PVC, Other</p> | | |
| |  <p>Stainless steel</p> |  <p>Carbon steel</p> |  <p>Copper</p> |  <p>PVC</p> |  <p>Other</p> |
| <p>3 Compatible pipe line size</p> | <p>DN15~DN40 (Inner diameter 12mm~ Inner diameter 40mm)</p>  | | | | |

Provide many aspects of help for different flow measurement application requirements:



1
Site display

Monitor the flow rate reading directly on the device.



2
Remote monitoring

With the help of output, could send the information to PLC, central control room and etc.








3
Data

Record the data to improve the efficiency

Specification

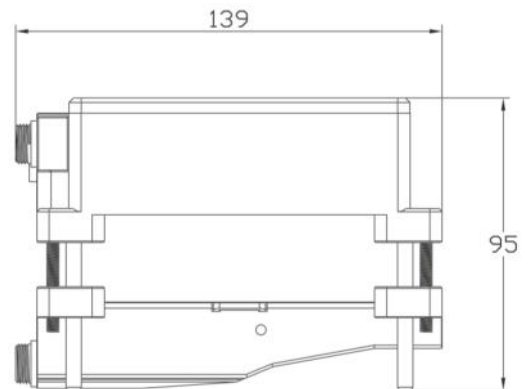
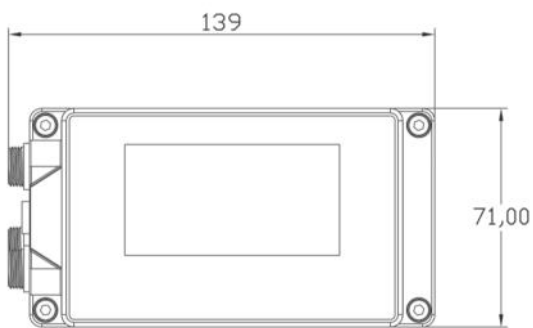
| | |
|---|---|
| Pipe material | Metal /PVC, PP or PVDF rigid plastic pipe |
| Liquid type | Water/other liquid (Single liquid medium without solid particles or impurities) |
| Temperature range | 0-75°C (No freezing on the surface) |
| Low velocity cut off value (Default by factory) | 0.1m/s |
| Display | 256*128, LCD |
| Response time | 0.5~60s |
| Accuracy | ±2%, (±1% after calibration) |
| Data Storage period | 300ms |
| Memory for data backup | EEPROM (Data storage:over 10 years,data read/write frequency:over 1 million times) |
| Power and I/O connection | M12 type aviation plug |
| Output | 4-20mA |
| Communication | Modbus RS485 |
| (Options for output) | OCT (pulse output)/ One relay alarm (please contact the factory) |
| Power supply | 10-24V VDC |
| Electric power | < 3W |
| Protective circuit | Power reverse connection protection, Power surge protection, Output short circuit protection, Output surge protection |
| Enclosure protection class | IP65 |
| Environment temperature | -10 to 60°C (No freezing) |
| Relative humidity | 35 to 85% RH (No condensation) |
| Vibration resistance | 10 to 55 Hz double amplitude 1.5 mm, 2 hours in each XYZ axis |
| Impact resistant | 100 m/s ² 16 ms pulse, 1000 times each for X, Y and Z axis |
| Main material | Aluminum, Industrial Plastics |
| cable length | 2m(standard), PT1000 sensor standard cable length is 9m |

Flow Range

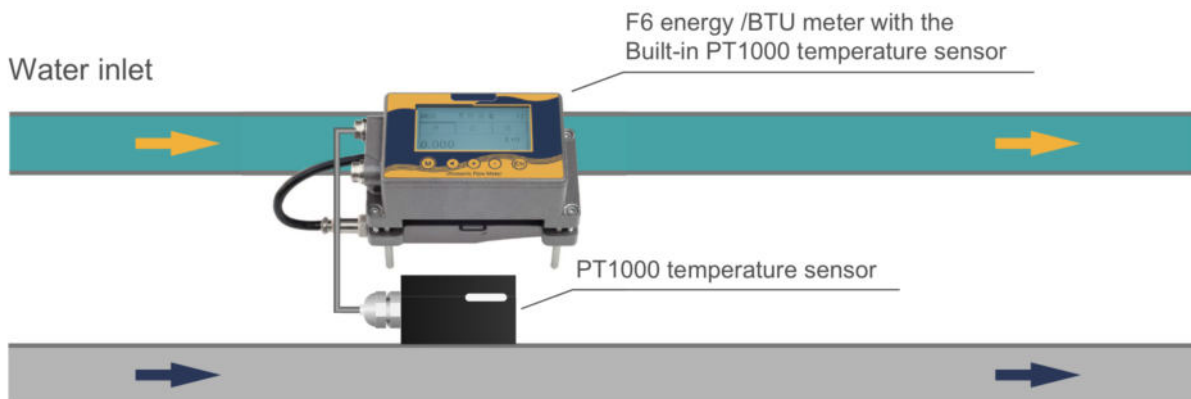
| Pipe size (DN) | Upper flow value (L/min) | |
|----------------|--------------------------|--|
| 15 | 60 L/m |  |
| 20 | 100 L/m |  |
| 25 | 200 L/m |  |
| 32 | 300 L/m |  |
| 40 | 400 L/m |  |

Notice: The minimum measurable pipe size is the inner diameter $\geq 12\text{mm}$

Size Drawing (Unit: mm)



Ultrasonic energy /BTU meter



Application



*Specifications Subject to change for continuous improvement, Rev:0



CONNECT+
IoT Solution Enabled

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