LOW COST ULTRASONIC FLOW METER

The flow meter is a fixed ultrasonic Heat Meter for continuous measurement of volumetric flow and heat energy.

Ultrasonic flow meters or heat meters are now widely used in the industrial and building sectors for monitoring hot water systems and energy efficiency monitoring. Their simplicity and reliability has seen their widespread adoption throughout the world as an accurate and reliable method of quantifying heat energy consumption.

These flow meters can be used on virtually any pipe size or material, are non-invasive and therefore not prone to the levels of deterioration that are seen by intrusive flow meters. It is also fine to use for flow applications only.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>&lt;1% of reading above 0.6ft/sec / 0.2 m/sec</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.2% fixed installation</td>
</tr>
<tr>
<td>Pipe Size</td>
<td>15 - 6000mm (dependant on transducers chosen)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +160°C (Insertion Option: -40°C to +160°C)</td>
</tr>
<tr>
<td>Instrument</td>
<td>-10°C to 70°C External Environment</td>
</tr>
<tr>
<td>Data-logging</td>
<td>The totaliser data from the last 64 days / 32 months can be viewed using the front keys or via Modbus</td>
</tr>
<tr>
<td>Output</td>
<td>1x 4-20mA, 1x Pulse/Alarm (open collector) output max 80VDC 100mA (pulse width variable), 1x Relay</td>
</tr>
<tr>
<td>Power</td>
<td>24V DC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>90 x 89 x 34 mm</td>
</tr>
<tr>
<td>Weight (Control Unit)</td>
<td>(180 g)</td>
</tr>
<tr>
<td>Programming</td>
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Features:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas Instruments CPU. 100 Pico-second measurement rate resolution.</td>
<td>Operates with all of our transducers, including clamp-on, insertion and flow-cell</td>
</tr>
<tr>
<td>Simple low cost DIN-RAIL style enclosure (screw terminals for wires)</td>
<td>Able to measure electrically conductive and non-conductive liquids.</td>
</tr>
<tr>
<td>Multiple location &amp; set-up memory for transporting to different sites enabling fast set-up</td>
<td>Menu PIN code lock-out, to protect settings from unwanted user interference / tampering.</td>
</tr>
<tr>
<td>2 channel 12 bits analogue 4-20mA input options eg. instead of PT100 sensors</td>
<td>Scalable 4-20mA output option (0-1kΩ Impedance)</td>
</tr>
<tr>
<td>2 channel programmable digital outputs (isolated Open Collector)</td>
<td>Frequency output. (0 - 9,999Hz), alarm driver, or totaliser, pulse output, ON/OFF control, etc.</td>
</tr>
<tr>
<td>Modbus RTU or ASCII Output / RS232, RS485</td>
<td>2x 20 character backlit, LCD display.</td>
</tr>
<tr>
<td>4-key, tactile membrane keypad buttons. Each unit individual TAG number and</td>
<td>Timed data output option for pre-selected logged values (output to RS232 /RS485)</td>
</tr>
</tbody>
</table>

**Fixed Ultrasonic Transducers**

A pair of clamp-on transducers to measure flow from outside the pipe are included complete with pipe clamps, meaning there is no pressure drop, there are no moving parts, no leaks and no contamination. The installation is very simple and no special skills or tools are required. The Pt100 Temperature probes can be clamp-on, Magnet mount, stick on or pocket fit. And now we only supply insertion type. Customers can use their own PT100 temperature probes.

**Ultrasonic Flow Transducers Option:**

- **S1-type Clamp-on transducer for small pipe**
- **M1-type Clamp-on transducer for middle pipe**
- **L1-type Clamp-on transducer for large pipe**
- **S1H-type Clamp-on high temperature transducer for small pipe**
- **M1H-type Clamp-on high temperature transducer for middle pipe**
- **B-type insertion wetted transducer (direct insertion)**
- **cement insertion wetted transducer**
- **Joint type transducer**
- **PL-type transducer**
- **Standard pipe transducer**
Transducers details and How to select:

Clamp-on transducer

A pair of clamp-on transducer to measure the flow from outside of a pipe, there is no pressure drop, no moving parts, no leaks and no contamination. The installation is very simple and no special skills or tools are required.

<table>
<thead>
<tr>
<th>Transducer parameters</th>
<th>S1-type</th>
<th>M1-type</th>
<th>L1-type</th>
<th>S1H-type</th>
<th>M1H-type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe size (mm)</td>
<td>DN15~100</td>
<td>DN50~700</td>
<td>DN300~6000</td>
<td>DN15~100</td>
<td>DN50~700</td>
</tr>
<tr>
<td>Pipe size (inch)</td>
<td>(1/2&quot;~4&quot;)</td>
<td>(2&quot;~28&quot;)</td>
<td>(12&quot;~240&quot;)</td>
<td>(1/2&quot;~4&quot;)</td>
<td>(2&quot;~28&quot;)</td>
</tr>
<tr>
<td>Material</td>
<td>ABS</td>
<td></td>
<td></td>
<td>Special high-temperature materials</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>1MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation method</td>
<td>V (N/W)</td>
<td>V/Z</td>
<td>Z</td>
<td>V (N/W)</td>
<td>V/Z</td>
</tr>
<tr>
<td>Calibration</td>
<td></td>
<td></td>
<td></td>
<td>Calibrate with the main unit</td>
<td></td>
</tr>
<tr>
<td>Magnetism</td>
<td>Magnetic</td>
<td></td>
<td>No magnetic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>32F<del>158F (0</del>70*)</td>
<td></td>
<td></td>
<td>32F<del>320F (0</del>160*)</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP68(can work in water, and water depth*3 meter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>45<em>30</em>30</td>
<td>60<em>45</em>45</td>
<td>80<em>70</em>55</td>
<td>90<em>85</em>24</td>
<td>90<em>82</em>29</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>75</td>
<td>250</td>
<td>650</td>
<td>94</td>
<td>150</td>
</tr>
<tr>
<td>Liquid types</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water, sea water, waste water, chemical liquids, oil, crude oil, alcohol, beer, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspension concentration</td>
<td>*20000ppm, may contain very small amount of air bubbles.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pipe material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All metals, most plastics, fiber glass, etc,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated shielded transducer cable</td>
<td>Shielded transducer cable, can be extended to 500 meter<em>2</em>contact the manufacturer for longer cable requirement.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Insertion wetted transducer

A pair of insertion-type transducers are inserted into the pipe wall to interrogate the flow in the pipe. Since the transducers do not extrude into the flow, they do not generate any disturbance or cause any pressure drop. There is no moving parts to wear out.

If the pipe material is carbon steel or stainless steel can be installed directly welding, but if the pipe material is cast iron, FRP, PVC or cement please contact with the manufacturer to order the dedicated pipe hoop. To prevent leak water please give the exact outside diameter or perimeter to the manufacturer.

<table>
<thead>
<tr>
<th>Technical parameters</th>
<th>B-type insertion wetted transducer (direct insertion)</th>
<th>C-type insertion wetted transducer (oblique insertion)</th>
<th>cement insertion wetted transducer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe size</td>
<td>More than DN80mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>material</td>
<td>Ball valve and transducer pole's material: stainless steel, Valve base's material is carbon steel(stainless steel is optional)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>1MHZ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application of temperature</td>
<td>-40℃ - 160℃</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bore size</td>
<td>Φ 19mm(please use the manufacture's dedicated tools to drill, it can install with pressure.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure class</td>
<td>1.6MPa(less than 0.8MPa when installing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP68(can work in water, and water depth* 3 meter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Space</td>
<td>More than 550mm between the well wall and the pipe wall</td>
<td>More than 360mm between the well wall and the pipe wall</td>
<td>More than 700mm between the well wall and the pipe wall</td>
</tr>
<tr>
<td>Liquid types</td>
<td>Water, sea water, waste water, chemical liquids, oil, crude oil, alcohol, beer, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspension concentration</td>
<td>≤20000ppm, may contain very small amount of air bubbles.</td>
<td></td>
<td></td>
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<tr>
<td>Dedicated shielded transducer cable</td>
<td>Shielded transducer cable, can be extended to 500 meter*2 contact the manufacturer for longer cable requirement, but the cable for water meter transducer do not more than 5 meter.</td>
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</table>
## Inline transducers

Transducer is a flow-cell (or spool-piece), where a pair of ultrasonic sensors have already been built in. The flow cell transducer is accurately calibrated in the factory. When it is put in line with the testing pipe, the accuracy normally does not change, with high accuracy, good stability, easy to use, etc.

### Transducer parameters

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<th>Joint type transducer</th>
<th>PI-type transducer</th>
<th>Standard pipe transducer</th>
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<tr>
<td>Main unit</td>
<td>All kinds of fixed type main unit</td>
<td>All kinds of fixed type main unit</td>
<td></td>
</tr>
<tr>
<td>Pipe size</td>
<td>DN25-DN80mm</td>
<td>DN15-DN40mm</td>
<td>DN50-DN1000</td>
</tr>
<tr>
<td>Material</td>
<td>Stainless steel</td>
<td></td>
<td>Carbon steel (stainless steel is optional)</td>
</tr>
<tr>
<td>Frequency</td>
<td>1MHZ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>Joint type</td>
<td>Flange type</td>
<td></td>
</tr>
<tr>
<td>Application of temperature</td>
<td>-40°C to 160°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibration</td>
<td>Calibrate with the main unit</td>
<td></td>
<td></td>
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<tr>
<td>Nominal pressure</td>
<td>Refer to the following table</td>
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![Diagram of Inline transducers]

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The table above provides a comprehensive overview of the technical parameters and specifications for different types of inline transducers, including common applications and operational considerations. The diagrams illustrate the physical configurations and measurement points for these devices.

---

Note: The inline transducers are designed for various applications in fluid measurement, ensuring accuracy and reliability in diverse environments.
## Inline transducers

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<th>Nominal diameter (DN:mm)</th>
<th>Rated pressure (MPa)</th>
<th>Pipe material</th>
<th>Joint dimension</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>L</td>
</tr>
<tr>
<td>25</td>
<td>4.0</td>
<td>Stainless steel</td>
<td>300</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>50</td>
<td></td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>65</td>
<td></td>
<td></td>
<td>350</td>
</tr>
<tr>
<td>80</td>
<td></td>
<td></td>
<td>400</td>
</tr>
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## Flange type

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<tr>
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<th>PI type</th>
<th>Standard-pipe</th>
<th>Flange dimension (mm)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>L1</td>
<td>L2</td>
<td>D</td>
</tr>
<tr>
<td>25</td>
<td>2.5</td>
<td>390</td>
<td>115</td>
<td>85</td>
</tr>
<tr>
<td>32</td>
<td></td>
<td>450</td>
<td>140</td>
<td>100</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td>500</td>
<td>150</td>
<td>110</td>
</tr>
<tr>
<td>50</td>
<td>1.6</td>
<td>200</td>
<td>165</td>
<td>125</td>
</tr>
<tr>
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<td></td>
<td>200</td>
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<td>160</td>
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<td></td>
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<td>220</td>
<td>180</td>
</tr>
<tr>
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<td></td>
<td>250</td>
<td>250</td>
<td>210</td>
</tr>
<tr>
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