PORTABLE ULTRASONIC FLOWMETER KIT
Portable, Non-Invasive and Data Logging Option

FEATURES/BENEFITS
- Non-invasive pipe measurement
- Compact and lightweight
- Incorporate the latest electronics and signal processing technologies realizing high performance and easy operation
- Ideal for on-the-go flow monitoring, capable of 20 hours continuous operation with built-in, rechargeable battery
- Easy to read graphic display with convenient backlight for visual comfort
- Efficient layout of the function keys for easy to use programming
- PUB features rugged carrying case with molded foam inserts
- PUF boasts an IP67 rated case to hold and protect all equipment conveniently

SPECIFICATIONS
- Service: Homogeneous liquids that do not contain air bubbles capable of ultrasonic wave propagation.
- Inputs: Lemo connector cable from sensors.
- Range: 0.33 to 65.62 ft/s (0.1 to 20 m/s).
- Display: 240 x 64 pixel graphic display, high contrast black on white with backlight; Languages: English, French, German, Swedish, Italian, Spanish, Portuguese, Russian, Norwegian, and Dutch; 5.2˝ W x 1.5˝ H.
- Accuracy: ±0.5 to 2% of flow reading for flow rate > 0.66 ft/s (0.2 m/s) and pipe ID > 2.95 in (75 mm); ±3% of flow reading for flow rate > 0.66 ft/s (0.2 m/s) and pipe ID in range 0.512 to 2.95˝ (13 to 75 mm); ±6% of flow reading for flow rate < 0.66 ft/s (0.2 m/s).
- Power Requirements: 9 to 24 VDC, (1) 5-Cell NiMH battery, internal, factory replaceable (continuous operation time: 20 hours with back-light and output off) (recharging time: 6.5 hours, power adapter used).
- Power Consumption: 10.5 W.
- Temperature Limits: -4 to 275°F (-20 to 135°C).
- Outputs: Analog: 1 opto-isolated output: 4 to 20 mA, 0 to 16 mA or 0 to 20 mA (selectable); Error current: 0 to 26 mA (selectable); Load resistance: 620 Ω max; Pulse: 1 opto-isolated MOSFET relay, 150 mA max, 500 pps max, 200 Hz max.
- Serial Communications: USB; RS-232 (PUF only).
- Enclosure Rating: Converter: IP54; Transducers: IP51.
- Materials: Flame retardant injection molded ABS plastic.
- Repeatability: ±0.5 % of measured value or ±0.066 ft/s (0.02 m/s).
- Electrical Connections: Multi-pin Lemo plugs.
- Turbidity: < 3% by volume of particulate content.
- Permissible Air Content: < 3% by volume.
- Response Time: < 500 ms.
- Weight: Unit without accessories: 2.3 lb (6.9 kg); Unit with accessories in carrying case: 13.23 lb (6.0 kg).
- Agency Approvals: CE.

ADDITIONAL SPECIFICATIONS
- Applicable Pipe Lining: Rubber, glass, concrete, epoxy, steel, other*.
- Pipe Wall Thickness: 0.04 to 3˝ (1 to 75 mm).
- Pipe Lining Thickness: < 1˝ (~25 mm).

OPTION
- Use order code: Description Price
- NISTCAL-FU NIST traceable calibration certificate $300.00

@ Items are subject to Schedule B discounts.

MODEL CHART - STANDARD VERSION

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size Range in (mm)</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB-10</td>
<td>0.5 to 4.5 (13 to 115)</td>
<td>$3741.00</td>
</tr>
<tr>
<td>PUB-20</td>
<td>2 to 40 (50.7 to 1016)</td>
<td>4325.00</td>
</tr>
</tbody>
</table>

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MODEL CHART - DATA LOGGING VERSION

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size Range in (mm)</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUF-1001</td>
<td>0.5 to 76 (13 to 2000)</td>
<td>$7287.00</td>
</tr>
<tr>
<td>PUF-1002</td>
<td>0.5 to 4.5 (13 to 115)</td>
<td>6520.00</td>
</tr>
<tr>
<td>PUF-1003</td>
<td>2 to 78 (50 to 2000)</td>
<td>6520.00</td>
</tr>
</tbody>
</table>

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@ Items are net priced and are not subject to any discount.

Scan here to watch product video

The SERIES PUB & PUF Portable Ultrasonic Flowmeter Sets utilize the transit-time difference for measuring flow rates in pipes non-invasively. Units offer flow rate local display with analog and pulsed outputs. The Series UFC offers the same features plus data logging capability.

APPLICATIONS
- Water treatment
- Industrial systems
- Irrigation applications
- Treated water flow
- River water
- Sea water
- Potable water
- Demineralized water
- Glycol/water mix
- Hydraulic system
- Diesel oil
- Water use data logging

KIT INCLUDES
- Converter
- Set of transducers
- Transducer holders
- Set of transducer cables (6.56 ft (2 m))
- 4 to 20 mA communication cables
- 12 VDC power supply
- Ultrasonic coupling grease
- Set of chains
- Ruled guide rail
- Test block
- Carrying case

PUB

PUF

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