

POCKET-UFM

Fits in your pocket clamp on ultrasonic flowmeter.



The POCKET-UFM is a light weight, truly pocket sized instrument. Its intuitive menu driven HMI makes it incredibly easy to use. Its size and the layout of its display and keypad means that it can be operated single handed. Yet all of this is achieved with no compromise in measurement performance. It even incorporates wall thickness and heat quantity measurement functionality.

Specification

- Pipe outer diameters ranging from 10 to 6500mm.
- Temperature range for pocket meter -10.... +65 degC.
- Weight 230g (including internal PP3 battery).
- Dimensions 185 x 85 x 25mm.

- IP 65 enclosure.
- Full 128 x 68 pixel graphics display with backlight.
- Full 17 key tactile keypad with audio feedback.
- Integral wall thickness gauging, 2... 20mm.
- Battery life up to 8 hours continuous use on a standard 9V PP3 battery for easy replacement.

Features

- Light weight and small for easy, one handed operation.
- Intuitive installation using menu driven HMI.
- Full set of instrument and measurement diagnostics.
- Signal oscilloscope for sensor positioning and diagnostics.
- Internal database of pipe, fluid and lining materials.
- Wall thickness gauging as standard (using wall thickness probe).
- Heat quantity measurement (if inlet and outlet temperatures are known).
- All measured values can be totalised.
- Ability to save up to 12 configurations for different measurement points.

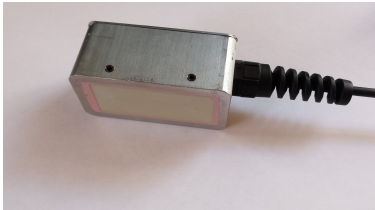
Performance

- Measurement principle ultrasonic transit time difference.
- Flow velocity range 0.01....25m/s.
- Resolution 0.25mm/s.
- Repeatability 0.15% of measured value.
- Accuracy +/-0.5%of measured value under ideal conditions.
- Turn down ratio 1/100.
- Measurement rate 1Hz as standard.
- Gas/solids <10% of volume.

Quantity and units of measurement

- Flow velocity
- Volumetric flow rate
- Mass flow rate
- Energy flow rate
- Volume
- Mass
- Energy

Transducers



- 3 operating frequencies to cover the range of pipe outer diameter 10.... 6500mm.
- DS10, 1MHz for pipes of 500mm and over.
- DS20, 2MHz for pipes from 25.... 500mm.
- DS40, 4MHz for pipes less than 25mm.
- Dimensions 60 x 30 x 35mm.
- Material stainless steel and PEEK.
- Temperature range -30.... +150 degC.
- Ingress Protection rated IP66.
- Cable length 1m as standard.
- Matched pairs for accurate zero flow measurement.

For more information or to arrange a demonstration please contact DiSonics by email noel@disonics.com, telephone +44(0)7971 273000 or by post at the address shown at the bottom of this page.