



The Portable 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 user interface 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 also incorporates wall thickness and heat quantity measurement functionality.

Specification

- Pipe outer diameters ranging from 10 to 6500 mm.
- Temperature range for pocket meter -10 to +65 degC.



Made in Britain

- Weight 230 g (including internal PP3 battery).
- Dimensions 185 x 85 x 25 mm.
- IP54 enclosure.
- Full 128 x 68-pixel graphics display with backlight.
- Full 17 key tactile keypad with audio feedback.
- Integral wall thickness gauging, 2 to 24 mm (requires optional wall thickness probe).
- Battery life up to 24 hours continuous use on a standard 9 V PP3 battery for easy replacement.

Features

- Light weight and small for easy, one-handed operation.
- Intuitive installation using menu driven user interface.
- 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 optional wall thickness probe).
- Heat quantity measurement (if inlet and outlet temperatures are known).
- All measured values can be totalised.
- Ability to save up to 10 configurations for different measurement points.

Performance

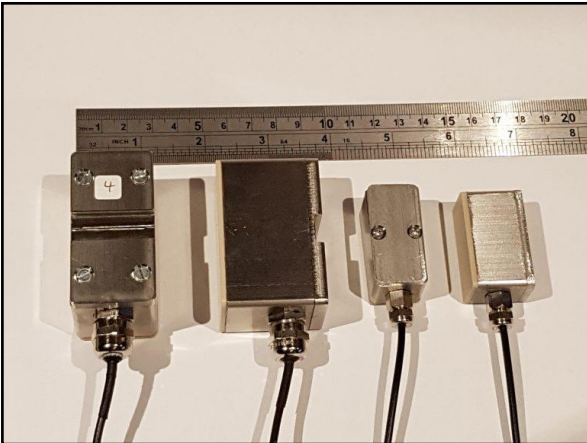
- Measurement principle ultrasonic transit time difference.
- Flow velocity range 0.01 to 25 m/s.
- Resolution 0.25 mm/s.
- Repeatability 0.15 % of measured value.
- Accuracy +/- 0.5 to +/- 3.0 % of measured value for velocity greater than 0.2 m/s, depending on application.
- Turn down ratio 1/100.

- Measurement rate 1 Hz 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 to 6500 mm.
- DM10, 1 MHz for pipes of 15 to 750 mm.
- DS10, 1 MHz for pipes of 50 and over.
- DM20, 2 MHz for pipes of 15 to 150 mm.
- DN40, 4 MHz for pipes of 10 to 75 mm.
- Dimensions 60 x 30 x 35 mm, 40 x 20 x 25 mm and, 30 x 15 x 12 mm for locations with limited access.
- Material stainless steel and PEEK.
- Temperature range -10 to +80 degC.
- Ingress Protection rated IP54, with IP68 option.
- Cable length 1.5 m as standard.
- Matched pairs for accurate zero flow measurement.
- Optional 5 MHz wall thickness probe.

For more information or to arrange a demonstration please contact Sonic Driver by email enquiries@sonic-driver.com, telephone +44(0)7971 273000 or by post at the address shown at the bottom of this page.

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