



## POCKET™ MOBILE-UFM

Turn a mobile phone into a high quality, accurate clamp-on ultrasonic flowmeter.



## Introduction

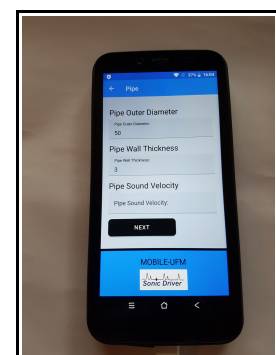
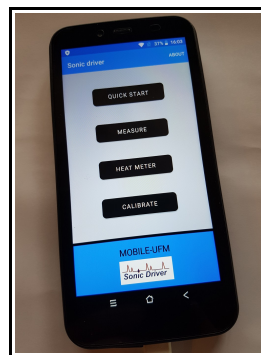
The Sonic Driver™ POCKET™ MOBILE-UFM is a light weight, pocket sized instrument that clips onto a mobile phone to turn it into a low cost, high quality, accurate clamp-on ultrasonic flowmeter. Its intuitive menu driven HMI runs as an app on the phone and makes it incredibly easy to use. Its size and the layout of the HMI means that it can be operated single handed. The instrument is powered from the phone battery. Yet all of this is achieved with no compromise in flow measurement performance. The meter incorporates heat quantity measurement functionality as standard. Its price point (£450) is aimed to put it in the range of plumbing and heating engineers.

## Specification

- Pipe diameter ranging from 10.... 500 mm.
- Ambient temperature range 0.... +35 degC *Note 1.*
- Weight 50 g (excluding phone).
- Dimensions 66 x 46 x 20 mm.
- Ingress Protection rated IP 68 enclosure (excluding phone) *Note 1.*
- Powered from the mobile phone battery, life up to 8 hours between charges.

## 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 common pipe materials and fluids.
- Heat quantity measurement (if inlet and outlet temperatures are known).

## Performance

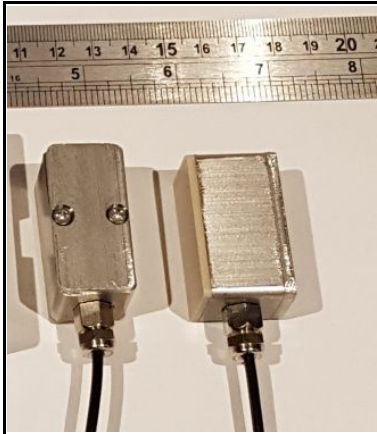
- Measurement principle, ultrasonic transit time difference.
- Flow velocity range 0.01....10 m/s.
- Resolution 0.25 mm/s.
- Repeatability 0.15% of measured value.

- Accuracy +/-0.5% of measured value under ideal conditions.
- 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

### Transducers



- 1MHz operating frequency to cover the range of pipe outer diameter 10.... 500mm.
- Dimensions 40 x 20 x 25 mm for locations with limited access.
- Material stainless steel and PEEK.
- Temperature range -30.... +150 degC.
- Ingress Protection rated IP 68.
- Cable length 1m as standard.
- Matched pairs for accurate zero flow measurement.

*Note 1. IP and ambient temperature ratings are intended to match those of most mobile phone manufacturers.*



**For more information or to arrange a demonstration please contact Sonic Driver by email [noel@sonic-driver.com](mailto:noel@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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