ULTRAFLO U1000MKII-FM-WM





NEW!

Now available in the original pipe-mounted or new wall-mounted, display & keyboard format with extended pipe range.









The U1000MKII-FM is an ultrasonic permanent/fixed clamp-on flow metering solution for measuring flow rate and total flow with a volume pulse output and optional Modbus or 4-20mA flow proportional output, which can be used as a stand alone meter or as part of an integral management system.

Simple to install – connect power enter the pipe inside diameter and material, adjust the sensors and clamp-on the pipe – no specialist skills or tools required!

A cost effective alternative to traditional in-line meter installation, plus dry servicing, providing minimum downtime and maximum availability!

Compact, rugged and reliable, the U1000MKII-FM-WM has been designed to provide sustained performance in industrial environments.

Now available with the option of t separate wall- mounted keypad and display plus extended pipe range and a heat/energy meter version.



For further information call us on +44 (0)1628 810456

or email sales@micronicsltd.co.uk www.micronicsflowmeters.com



ULTRAFLO U1000MKII-FM-WM



U1000MKII-FM-WM – Pipe mounted, clamp-on sensors with separate wall mounted keypad and display

SPECIFICATION

Measurement Technique: Ultrasonic, cross-correlation transit time method for flow measurement.

Turn Down Ratio: 100:1

Accuracy: ±3% of flow reading for velocity rate >0.3m/s (>1 ft/s).

Flow Velocity Range: 0.1m/s - 10m/s (0.3 ft/s - 32 ft/s).

Pipe Range: 25mm - 115mm OD and 125mm to 225mm OD

Note: Pipe size is dependent on pipe material and internal diameter.

Pipe Material: Steel, Stainless Steel, Plastic and Copper

Water Temp Range: $0^{\circ}C - 135^{\circ}C (32^{\circ}F - 275^{\circ}F)$.

Pulse Output: Pulse or Frequency. Pulse for Volume flow and Alarms. Frequency for flow rate. The pulse output can be configured as a loss of signal or low flow alarm. Opto-isolated MOSFET volt free contact (NO/NC).

4-20mA Output: Optional 4-20mA flow proportional output. Resolution 0.1% of full scale. Maximum load 620[^].

Modbus Communication: Optional Modbus RTU slave, RS485 serial link hardware layer. Physical connection RS485.

External Power Supply: 12V – 24V ±10% AC/DC at 7 watts per unit.

Optional plug in 12V power supply.

Electronics Enclosure: IP68.

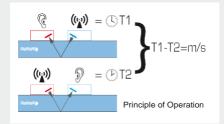
Wall Mounted Keypad and Display Dimensions: 215mm x 125mm x 90mm (8.46"x 4.92" x 3.54").





How does it work?

The Ultraflo U1000MKII-FM is a transit time ultrasonic flow meter designed to work with clamp-on transducers, to provide accurate measurement of liquid flowing within a closed pipe, without the need for any mechanical parts to inserted through the pipe wall or to protrude into the flow system. It takes just a few minutes to install and there is no need to shut down flow or drain the system!



When ultrasound is transmitted between the transducers, its velocity is slightly increased when travelling in the direction of flow, and slightly reduced when travelling against the flow. The resulting transit time difference is directly proportional to the velocity of the flow in the pipe. Having measured the flow velocity and knowing the pipe cross-sectional area, the volumetric flow can be easily calculated.



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Industries:

- Building Services
- Energy Management
- Water Treatment
- Chemical
- Pharmaceutical
- Petrochemical
- Food

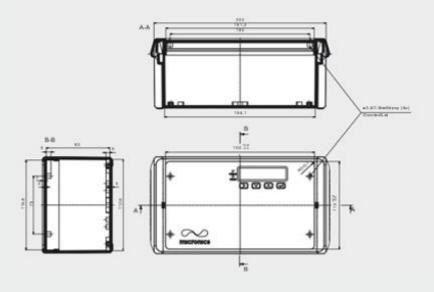
Recommended for:

- Hot water
- Chilled water
- Potable water
- Demineralised water
- Chilled Water with Glycol

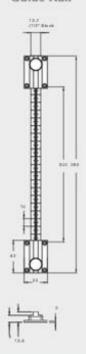
Application/use:

- Hot water metering and flow measurement
- Flow measurement forheat metering
- Chilled water metering and flow measurement
- Flow measurement for chilled water energy metering
- Potable water metering and flow measurement
- Process water metering and flow measurement
- Ultrapure water measurement

U1000MKII-HM-WM Wall Mount Unit



U1000MKII-HM-WM Guide Rail



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