



Micronics Ultraflo U1000MKII-HM-WM Clamp-on Heat/Energy Meter with Wall Mounted Keypad & Display

Product Images



Short Description

The Micronics Ultraflo U1000MKII-HM-WM is a Clamp-on, Ultrasonic heat/energy meter with a separate wall mounted keypad and display, a “Best Value” alternative to traditional inline energy meters, for energy management and billing applications in domestic and commercial, district or shared heating or cooling systems. Offering significant installation cost and dry maintenance benefits over traditional inline products.

Description

The Ultraflo range of clamp-on metering solutions offers a complete package alternative to traditional in-line flow and energy meters. If you need to monitor and manage water and energy consumption in your facility, the Ultraflo range offers a best value solution including lower cost, no disruption installation and dry maintenance for hot and chilled water applications ranging from 22 to 225mm OD.

Key Features & Benefits

- **New:** Clamp-on pipe mounted sensors with **Wall Mounted keypad and display** for wall or panel mounting
- **New:** larger pipe range Available in 2 options. 22mm – 115mm OD and 125mm – 225mm OD
- **New:** Optional Modbus RTU slave, RS485 serial and M-Bus communication.
- **New:** Ultrasonic, cross-correlation transit time method for flow measurement.
- **New:** 1Mhz transducers to get through poor/old thick wall pipes and larger pipework
- **New:** Water/Glycol option
- **Simple to install:** connect power and enter the pipe inside diameter, adjust the sensors and clamp-on the pipe, no specialist skills or tools required
- A clamp-on non-invasive alternative heat/energy meter to traditional in-line meter installation, plus dry servicing, providing minimum downtime and maximum availability.
- LCD with backlight – install & service information.
- Integrated pulse output for Volume flow and Energy in kWh(BTU). – aM&T & BEM's compatible with Modbus.

The alternative to cutting pipes and mechanical meters, for simple, low cost flow measurement from outside the pipe!

APPLICATIONS: Heat/energy metering in energy management or building services applications for heating or chilled water circuits.

INDUSTRIES: Building Services, Energy Management, Process

RECOMMENDED FOR: Hot water, Chilled water, Chilled Water with Glycol

PIPE MATERIALS: Steel, Stainless Steel, Plastic and Copper.

Additional Information

Country of Manufacture	United Kingdom
Explanation	<p>Measurement Technique: Ultrasonic, cross-correlation transit time method for flow measurement.</p> <p>Turn Down Ratio: 100:1</p> <p>Heat Meter Standard: The Heat/Energy calculation is designed to comply with EN1434 section 6</p> <p>Accuracy: ±1% -3% of flow reading for velocity rate >0.3 m/s (>1 ft/s)</p> <p>Flow Velocity Range: 0.1 m/s – 10 m/s (0.3 ft/s – 32 ft/s)</p> <p>Pipe Range: Available in 2 options, 25 mm – 115 mm OD and 125 mm – 225 mm OD. Note pipe size is dependent on pipe material and internal diameter.</p> <p>Pipe Material: Steel, Stainless Steel, Plastic and Copper</p> <p>Water Temp Range: 0°C – 135°C (32°F – 275°F)</p> <p>Option: Additional 4-20mA output option for flow only, which can be purchased / used at the same time as modbus / mbus.</p> <p>Temperature sensors: Clamp-on PT100 Class B 4 wire, range 0°C – 135°C (32°F – 275°F), resolution 0.1°C (0.18°F). Minimum delta T is 0.3°C</p> <p>Pulse Output: Pulse or Frequency. Pulse for volume flow and Energy in kWh (BTU). 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].</p> <p>Modbus Communication: Optional Modbus RTU slave, RS485 serial link hardware layer. Energy, power, temperature and flow.</p> <p>M-Bus Communication: Optional.</p> <p>External Power Supply: 12V-24V ±10% AC/DC at 7 watts per unit. Optional plug in 12V power supply.</p> <p>Electronics Enclosure: IP68</p> <p>Wall Mounted Keypad and Display</p> <p>Dimensions: 215mm x 125mm x 90mm (8.46"x 4.92"x 3.54")</p>
Brand	Micronics
Typical applications	Building Monitoring, Building Performance, Energy, Food Processing, HVAC, Waste Water
Measurements	Flow, Temperature
Installation	Includes transducer guide rail and all mounting hardware.

Additional Options

Options	Pulse Only, up to 4" pipe (SKU: 904-20001400)
	Pulse Only, up to 8" pipe (SKU: 904-20004800)
	With Pulse & 4-20mA, up to 4" pipe (SKU: 904-20001401)
	With Pulse & 4-20mA, up to 8" pipe (SKU: 904-20004801)
	With Pulse & Modbus, up to 4" pipe (SKU: 904-20001402)
	With Pulse & Modbus, up to 8" pipe (SKU: 904-20004802)
	With Pulse & M-bus, up to 4" pipe (SKU: 904-20001403)
	With Pulse & M-bus, up to 8" pipe (SKU: 904-20004803)
	With Pulse, 4-20mA & Modbus, up to 4" pipe (SKU: 904-20001404)
	With Pulse, 4-20mA & Modbus, up to 8" pipe (SKU: 904-20004804)
	With Pulse, 4-20mA & M-bus, up to 8" pipe (SKU: 904-20001405)
	With Pulse, 4-20mA & M-bus, up to 8" pipe (SKU: 904-20004805)
Optional 12V Wall Power Supply	U1000 12V Wall Power Supply