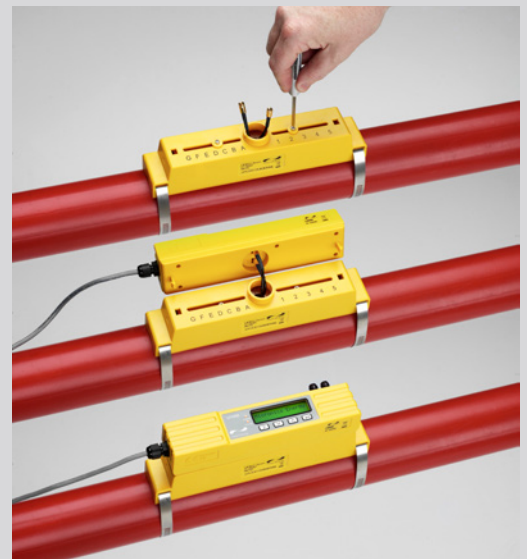




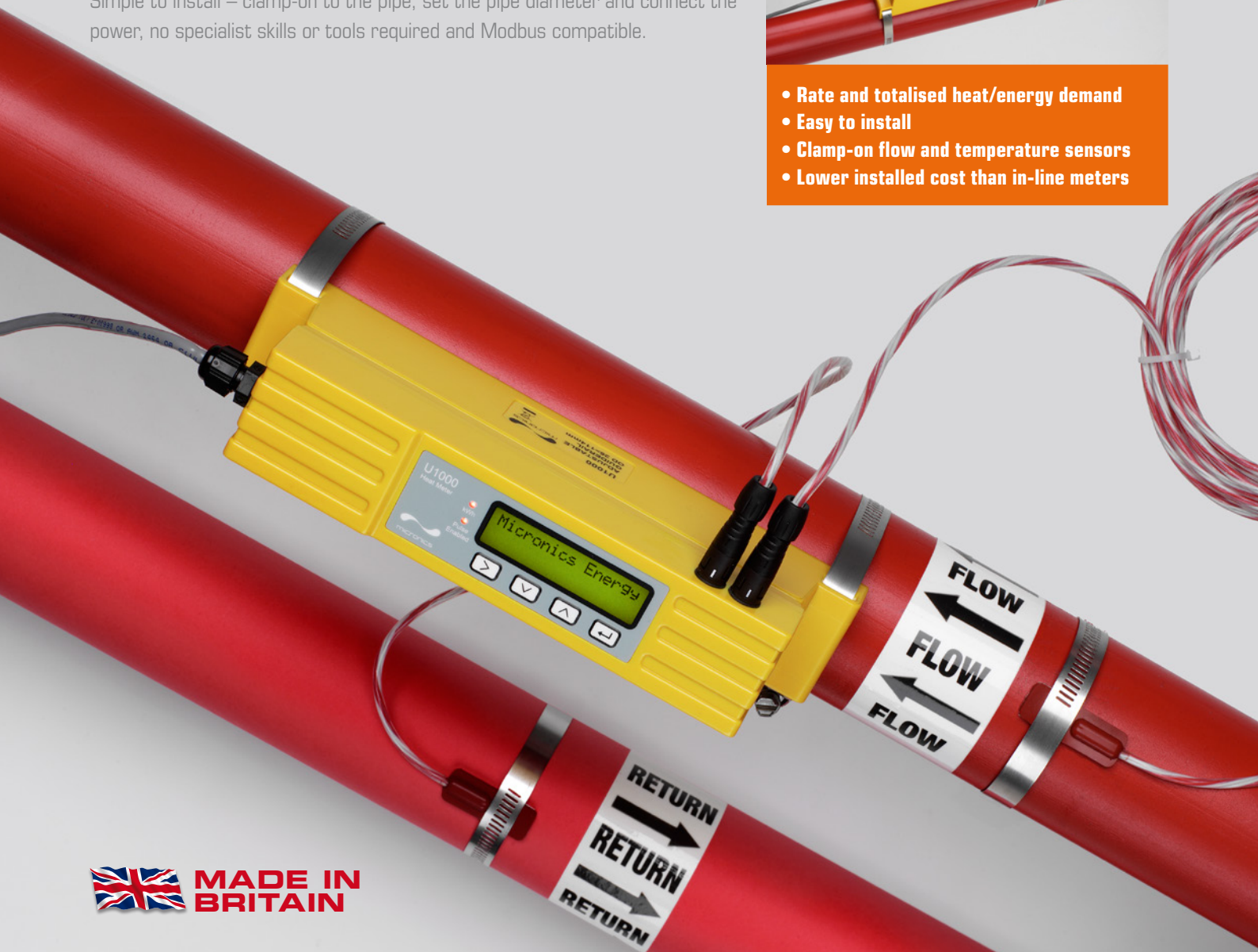
The new heat/energy metering solution from Micronics. Simple, low cost, hot or chilled water energy measurement from outside the pipe. A smarter solution than in-line meters!

The U1000 HM is an ultrasonic clamp-on heat/energy meter that uses ultrasound to measure flow rate and PT100 temperature sensors to measure flow and return temperatures. The U1000 HM displays energy rate and totalised energy with pulse output and Modbus communication, so it can be used as a standalone meter or as an integral part of an aM&T or BEM's system.

Simple to install – clamp-on to the pipe, set the pipe diameter and connect the power, no specialist skills or tools required and Modbus compatible.



- Rate and totalised heat/energy demand
- Easy to install
- Clamp-on flow and temperature sensors
- Lower installed cost than in-line meters



For further information please visit:
www.micronicsflowmeters.com
or call

+44 (0)1628 810456



U1000 HM Specification

Measurement Technique: Transit time and PT100
Class B 4 wire

Turn Down Ratio: 200:01

Heat Meter Standard: The Heat/Energy calculation is designed to comply with EN1434 section 6, third party certification pending.

Accuracy: +/-1-3% of flow reading for >0.3m/s

Flow Velocity Range: 0.1 to 10m/s

Pipe Range: 25mm – 115mm OD

Water Temp Range: 0°C to 85°C

Temperature sensors: Clamp-on PT100 Class B 4 wire, range 0 to 85°C, resolution 0.1 °C

Output: Pulse or Frequency, Energy or Volume flow

Modbus Communication: Modbus RTU slave, RS485 serial link hardware layer. Energy, power, temperature and flow.

External Power Supply: 12V-24V +/- 10% AC/DC at 7 watts

Electronics Enclosure: IP54

Input/Output Cable: 5m x 6 core for power in and data out

Dimensions: 250mm x 48mm x 90mm
(electronics + guide rail)

INDUSTRIES:

- Energy Management
- Building Services

RECOMMENDED FOR:

- Hot water < 85°C
- Chilled water

APPLICATION/USE:

- Heat/energy metering in energy management or building services applications for LTHW or chilled water circuits.

PIPE MATERIALS:

- Steel
- Plastic
- Copper

Micronics Limited accepts no responsibility or liability if this product has not been installed in accordance with the installation instructions applicable to the product.

Micronics reserve the right to alter any specification without notification.

U1000 HM - Fixed Ultrasonic Heat/Energy Meter with Modbus Communication



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