Technical Datasheet

Micronics Ultraflo U1000MKII-HM Clamp-on Meter

The U1000MKII HM is an ultrasonic clamp on thermal heat and energy meter that uses ultrasound to measure flow rate and PT100 temperature sensors to measure flow and return temperatures. It displays energy rate and totalised energy with pulse output and communication options, so it can be a standalone meter or part of an aMT or BEMS system. It is simple to install: connect power, enter the pipe inside diameter, adjust the sensors and clamp on the pipe, with no specialist skills or tools needed.

Features:

- Clamp on, no pipe cutting
- Ultrasonic transit time flow measurement
- Pulse or frequency output, optional MBus
- Pipe range 22 to 180 mm outside diameter
- Hot water, chilled water and chilled water with glycol
- Complies with EN 1434 section 6 heat calculation
- Made in Britain



Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

sycous.com

sycous.com +44 (0) 113 3604 776 info@sycous.com New York House, 1 Harper Street, Leeds, LS2 7EA

Sycous Limited is Registered in England and Wales. Company Number 08836039

Technical Datasheet
Micronics Ultraflo U1000MKII-HM Clamp-on Meter

Part Codes	
MI100HM	Sycous WR1000 Clamp on Heat Meter, A Transducers, 22 to 115 mm, Pulse and MBus
MI101HM	Sycous WR1000 Clamp on Heat Meter, B Transducers, 125 to 180 mm, Pulse and MBus
MI200HM	Sycous WR1000MKII Wall Mounted Clamp on Heat Meter, A Transducers, 22 to 115 mm, Pulse and MBus
MI201HM	Sycous WR1000MKII Wall Mounted Clamp on Heat Meter, B Transducers, 125 to 180 mm, Pulse and MBus
SY912CO	Clamp On Meter Site Visit and Survey

Technical Specification	
Measurement	
Technique	Ultrasonic transit time for flow, PT100 Class B 4 wire for temperature
Turn down ratio	200:1
Accuracy	Plus or minus 1 to 3 % of flow reading above 0.3 m/s
Flow velocity range	0.1 to 10 m/s
Pipe range	22 to 115 mm or 125 to 180 mm outside diameter (depends on pipe material and internal diameter)
Water temperature range	0 to 85 °C
Temperature sensors	Clamp on PT100 Class B 4 wire, 0 to 85 °C, resolution 0.1 °C, minimum delta T 0.3 °C
Outputs	
Output	Pulse or frequency. Pulse for volume flow and energy in kWh, frequency for flow rate. Pulse output can be set as a loss of signal or low flow alarm
Communication	Optional MBus
Electrical and mechanical	
External power supply	12 to 24 V, plus or minus 10 %, AC or DC, 7 W per unit. Optional plug in 12 V power supply
Electronics enclosure	IP54
Input and output cable	5 m x 6 core for power in and pulse out
Dimensions	250 x 48 x 90 mm (electronics and guide rail)
Pipe materials	Steel, stainless steel, plastic and copper

Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

sycous.com

sycous.com +44 (0) 113 3604 776 info@sycous.com New York House, 1 Harper Street, Leeds, LS2 7EA

Sycous Limited is Registered in England and Wales. Company Number 08836039