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Micronics Ultraflo UF3300 Fixed Clamp-on, Heat/Energy, Flow and Process Measurement Meter Range

Product Images

Short Description

The UF3300 range brings simplicity to the non-invasive measurement of liquid flow and hydronic energy. The UF3300 offers the user quick and accurate flow and energy measurement with its easy to follow menu and

simple set up. A cost-effective alternative to traditional in-line meter installation, plus dry servicing, providing minimum downtime and maximum availability!
Compact, rugged and reliable, the UF3300 range has been designed to provide sustained performance in industrial environments.

- Ultrasonic, cross-correlation flow measurement
- Reynolds number correction
- Easy to install
- Simple to follow set-up menu
- Clamp-on flow and temperature sensors.

Description

Note: The price shown is for the base model. Contact our Technical Sales Team for a quote according to your requirements.

The new Ultraflo UF3300 clamp-on flow energy/heat and process measurement meters for simple, accurate flow and energy measurement from outside the pipe!

The UF3300 fixed flow and energy/heat meter solutions for closed pipe applications are ultrasonic, clamp-on and non-invasive, This means considerable savings from no cutting pipes or downtime interruption to process whilst the meters are being installed and low operation costs ie no in-line blockages and dry maintenance. The ULTRAFLO UF3300 brings simplicity to the non-invasive measurement of liquid flow and hydronic energy. It offers the user quick and accurate flow and energy measurement. And with its easy to follow menu and simple set up results can be achieved in quick time!

Key Features & Benefits

- **New:** cross correlation flow measurement system
- Flow Range – 0.1m/sec to 20m/sec bi-directional
- New: now available as a pulse output heat/energy meter
- Display – 240 x 64 pixel graphic display, with backlight
- Set-up via 15 key control panel
- Power – 86v to 264v AC. Optional 24V a.c./d.c. 1A max
- 4 user selectable languages including English, German, French and Spanish
- Accuracy Pipe ID >75mm – +/- 0.5" to +/-2% of flow reading for flow rate > 0.2m/s
- Accuracy Pipe ID 13-75mm +/- 3% of flow reading for flow rate > 0.2m/s
- CE Approved.

Applications/uses include: Process fluid measurement, HVAC/Building Services metering, District Heating Network monitoring, Ultrapure water measurement and Heavy fuel oil metering.

Additional Information

Country of Manufacture	United Kingdom
Explanation	Temperature sensors with UF3300 heat/energy meter. Improved data logger logs energy and flow all date stamped. **Measurement Technique:** Ultrasonic, cross-correlation transit time method for flow measurement and PT100 Class B 4 wire for temperature measurement. **Heat Meter Standard:** The Heat/Energy calculation is designed to comply with EN1434 section 6. **Temperature Sensors:** Clamp-on PT100 Class B 4 wire, range 0°C to 200°C (32°F to 392°F), resolution 0.1°C (0.18°F). Minimum delta T is 0.3°C. **Enclosure:** The UF3300 enclosure is IP65 rated. **'A' Transducers:** 13mm OD to 115mm OD pipes, IP54 with IP68 option. **'B' Transducers:** 50mm OD to 2000mm OD pipes, IP54 with IP68 option. **Transducer Operating Temp:**– 'A'&'B' -20°C to +135°C. 'A'&'B' Option Hi-Temp -20°C to +200°C. **Flow Range:** 0.1m/sec to 20m/sec bi-directional. **Turn Down Ratio:** 100:1 **Accuracy:** +/- 0.5% to +/- 3% depending on pipe size for flow rate > 0.2m/s. **Data Communications:** USB, supports most USB 2.0 BOM drives. **3 x Pulse Output:** Pulse or Frequency. Opto-isolated MOSFET relay. Max current: 150mA. Isolation: >100V AC/DC/ Pulse for volume flow and alarms., frequency for flow and power rate. The pulse outputs can be configured including: flow totals, energy, loss of signal, low flow alarms. **Volumetric mode:** Pulse repetition rates: up to 50 pulses/sec (depending on pulse width). **Frequency mode:** Max. pulse frequency: 200Hz. **Flow at max frequency:** User selectable. **4-20mA Output:** 4–20mA flow proportional output; optically isolated 1500 volts, 620 ohms maximum load. **Power:** 86V to 264V AC. Optional 12V a.c./d.c. 1A max. **Data Logging (dependent on model):** 100,000,000 data points. Downloaded via USB to CSV file and export to Excel. Logs application details, time, date, flow rate, forward total, reverse total, flow velocity, flow side temperature, return side temperature, temperature difference, power, total energy, signal quality, signal SNR, signal status. **Data Logging (dependent on model):** 100,000,000 data points. Downloaded via USB to CSV file and export to Excel. Logs application details, time, date, flow rate, forward total, reverse total, flow velocity, signal quality, signal SNR, signal status. **Hardware & Operation** The UF3300 electronics are housed in a IP65 enclosure, which incorporates the display, keypad, sensor and output facility connections. Set-up of the unit is carried out by selecting the options displayed in the main menu and by following the simple instructions in any of the user selectable languages. Signal strength, time and date, as well as flow information are all continuously displayed, keeping the user fully aware of the measurement process. **Hydronic Liquid Flow Energy Measurement** The UF3300 is a simple to use ultrasonic clamp-on flow and thermal, heat/energy meter, that uses ultrasound to measure flow rate and clamp-on PT100 temperature sensors to measure flow and return temperatures. The UF3300 measures energy rate and totalised energy. And the Heat/Energy calculation is designed to comply with EN1434 section 6. **Flow Transducers** The UF3300 range is able to work with different transducer sets depending on the unit purchased and the application. Optional high temperature sensors are also available. Sensor mounting clamps are provided with each instrument, to ensure correct mounting and reliable operation on any size pipe, in either diagonal or reflex modes. **Data Logger** 100,000,000 data points. 12 named sites. Download via USB to CSV file and export to Excel. Logs application details, time, date, flow rate, forward total, reverse total, flow velocity, flow side temperature, return side temperature, temperature difference, power, total energy, signal Quality, signal SNR, signal status.
Brand	Micronics
Typical applications	Building Monitoring, Building Performance, Energy, Food Processing, HVAC, Waste Water
Measurements	Flow, Temperature, Water 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