

TEDMTFB ULTRASONIC HEAT FLOW METER

The Series TEMDMHF adopt the MultiPulse™ Technology, Digital Signal Processing Technology and Error Correction Technology, which are the state-of-the-art non-invasive flow measurement technology, with a measuring system of very high accuracy, versatility, low cost of installation and ownership. The meter can calculate automatically caloric content of water under 0...200°C temperatures, and can obtain instantaneous caloric value and totalized caloric value.



Applications:

- Measuring heat flow
- HVAC hot and cool water, water/glycol solutions
- Power plants, heat energy boiler feed water
- Energy consumption supervision and water conservation management
- Energy measurement and balancing

SPECIFICATIONS

Accuracy:	+/- 1% of reading, plus +/- 0,5 m/s. +/- 0,005 m/s a <0,5 m/s
Sensitivity:	Flow rate: 0,0003 m/s
Repeatability:	+/- 0,2% of reading
Velocity:	+/- 12 m/s bi-directional
Unit:	metric or english (US)
Output:	- 4/20 mA, pulse, relay, RS232C or RS485 Options: Data logger, ModBus
Thermal energy calculation:	the meter calculates the thermal energy according to international standards, $Q_{inst} * E = (T_{out} - T_{in})$, where T is the enthalpy difference between inlet and outlet
Thermal units:	kWh (optional KC)
Display/Keypad:	LCD back lit, 4 line x 16 crt., tactile membrane keypad
Media:	Virtually most any liquid containing less than 2% total suspended solids (TSS) or aeration
Working Temperature:	-40...+121°C standard transducers, -40...+250 HT transducers
Materiale tubazione:	tutti i metalli, la maggior parte di plastiche, fibre di vetro, ecc.
Section straight pipe:	>15D - downstream any pump >30D
Cable Length:	Std: 20 feet (6m); Opt: Maximum: 990 feet (300m)
Power supply	90-240VAC 50/60Hz ±15%, 5VA max. 10 - 28 VDC, 2.5VA max., Solar supply 12VDC
Weight:	2,5 kg standard electronic, 5 kg ATEX electronic
Dimensions:	2410x193x76.5 mm. std, 255x220x110 ATEX
Temperature sensors:	PT1000 - Clamp-on and Insertion - 0...200°C - accuracy +/- 0.1%
Transducers:	type S: 12...50mm; type M 40...1000 mm.; type L: 1000...2500 mm.; type K: 20...50 mm (round clamp)



Type L: 80x53x53 <1 kg



Type S: 42x25x25 <0,2 kg



Type M: 60x43x43 <0,5 kg



tipo K



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