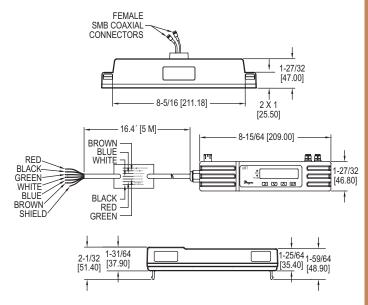


CLAMP-ON ULTRASONIC THERMAL ENERGY METER NEMA 4 Enclosure with Integral Mounting Bracket







The Series UBT Clamp-On Ultrasonic Thermal Energy Meter is an economical clamp-on ultrasonic heat meter. It is an ultrasonic alternative to the traditional inline thermal energy meters. The series uses temperature sensors for energy measurement and ultrasonic waves with time differentials for flow measurement.

BENEFITS/FEATURES

- · Save on installation costs with non-invasive pipe measurement
- · Simplified installation with all necessary components included, such as converter, sensor, cables and mounting accessories
- · Fit application requirements with compact and lightweight design, that can be easily installed, all in one clamp-on unit intended for homogeneous liquids that contain no
- · Cut down evaluation time with easy-to-read text displaying both energy rate and totalized energy with pulse output and communication options with a convenient backlight for visual comfort

APPLICATIONS

- · Building services
- · Energy management
- · Heat/energy metering for energy management or building services utilizing chilled water circuits

MODEL CHART		
Mod	el	Description
UBT	-14	Clamp-on ultrasonic thermal energy meter, 3/4 to 4" (25 to 115 mm) pipe size
UBT	-16	Clamp-on ultrasonic thermal energy meter, 5 to 7" (125 to 180 mm) pipe size
UBT	-24	Clamp-on ultrasonic thermal energy meter with pulse and Modbus®
		communication output, 3/4 to 4" (25 to 115 mm) pipe size
UBT	-26	Clamp-on ultrasonic thermal energy meter with pulse and Modbus®
		communication output, 5 to 7" (125 to 180 mm) pipe size

SPECIFICATIONS

Service: Clean water with <3% by volume of particulate content, or up to 30%

ethylene glycol.

Range: 0.3 ft/s to 32 ft/s (0.1 m/s to 10 m/s).

Display: Backlit: 2.28" x 0.43" (58 mm x 11 mm), 2 line x 16 characters.

Accuracy: ±3% of flow reading for velocity rate >1 ft/s (0.3 m/s).

Power Requirements: 12 V to 24 V ±10% AC/DC at 7 watts per unit. Optional

plug-in 12 V power supply.

Power Consumption: 7 W (DC) or 7 VA (AC) max.

Temperature Limits: Process: 32 to 185°F (0 to 85°C); Ambient: 32 to 122°F (0 to

Outputs: Pulse: 1 optoisolated MOSFET relay, 500 mA max, 166 pps max, 200 Hz

max.

Humidity Limit: 90% RH at 122°F (50°C) max.

Communication: Pulse, Optional Modbus® communication.

Enclosure Rating: IP54.

Enclosure Material: Plastic polycarbonate. Repeatability: ±0.15% of measured value. Electrical Connections: 16.4' (5 m) cable.

Flow Direction: Any. Mounting Orientations: Any. Weight: 1.10 lb (0.5 kg). Agency Approvals: CE.

ADDITIONAL SPECIFICATIONS

Applicable Pipe Material: Steel, SS, copper, or plastic.

Pipe Outside Diameter: 3/4 to 4" (25 to 115 mm); 5 to 7" (125 to 180 mm).*

Applicable Pipe Lining: None.

Pipe Wall Thickness: 0.02 to 0.36" (0.5 to 10 mm).

*Pipe size is dependent on pipe material and internal diameter.

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