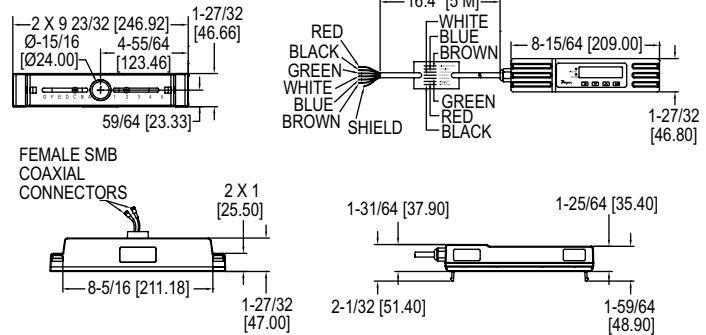


COMPACT ULTRASONIC FLOWMETERS

Cost Effective, Compact and Adjustable Design, Non-Invasive



The **Series UFM2 Compact Ultrasonic Flowmeters** are economical, clamp-on, ultrasonic flowmeters. The UFM2 implements the transit-time difference to measure flow rates in pipes and can measure velocity and flow in pipes with outside diameters ranging from 3/4 to 7" (25 to 180 mm). This model comes with a volume pulse and 4-20 mA flow rate output.

FEATURES/BENEFITS

- Non-invasive pipe measurement
- Simple installation with all necessary components included such as converter, sensor, cables and mounting accessories
- Compact and lightweight design, featuring an easily installed, all in one clamp-on unit intended for homogeneous liquids that contain no air
- Screen offers easy-to-read text displaying both flow rate and total with a convenient backlight for visual comfort

APPLICATIONS

- Flow measurement for heat metering
- Metering and monitoring in:
 - Chilled water
 - Potable water
 - Process water

KIT INCLUDES

- Converter with adjustable guiderail
- Set of pipe clamps (model dependent)
- Set of small pipe adapter circle clamps
- Set of small pipe adapter V clamps
- Ultrasonic coupling grease

SPECIFICATIONS

Service: Clean water with <3% by volume of particulate content.
Range: 0.33 to 32.8 ft/s (0.1 to 10 m/s).
Display: Backlit: 3.27" H x 0.74" W (83.1 mm x 18.8 mm), 2 line x 16 characters.
Accuracy: ±3% of flow reading for >0.98 ft/s (>0.3 m/s).
Power Requirements: 12-24 VDC/VAC.
Power Consumption: 7 W max.
Temperature Limits: Process: 32 to 185°F (0 to 85°C); Ambient: 32 to 122°F (0 to 50°C).
Outputs: Analog: 1 opto-isolated: 4-20 mA; Error current: 3.5 mA; Load resistance: 620 Ω max; Pulse: 1 opto-isolated MOSFET relay, 500 mA max, 166 pps max, 200 Hz max.
Enclosure Rating: IP54.

Enclosure Material: Plastic polycarbonate.
Repeatability: ±0.15% of measured value.
Electrical Connections: 16.4' (5 m) cable.
Response Time: <1 s.
Weight: 2.9 lb (1.315 kg).
Agency Approvals: CE.

ADDITIONAL SPECIFICATIONS
Applicable Pipe Material: Steel, copper, or plastic.
Pipe Outside Diameter: 3/4 to 7" (25 to 180 mm)*.
Applicable Pipe Lining: None.
Pipe Wall Thickness: 0.02 to 0.39" (0.5 to 10 mm).

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

MODEL CHART

Model	Description
UFM2-14	Compact ultrasonic flowmeter, pulse and 4-20 mA outputs, 3/4 to 4" (25 to 115 mm) pipe
UFM2-16	Compact ultrasonic flowmeter, pulse and 4-20 mA outputs, 5 to 7" (125 to 180 mm) pipe

OPTIONS

Use order code:	Description
NISTCAL-FU	NIST traceable calibration certificate