Cost Effective, Compact & Adjustable Design, Non-Invasive



The **MODEL UFM** Compact Ultrasonic Flowmeters is an economical, clamp-on, ultrasonic flowmeter. The Model UFM implements the transit-time difference to measure flow rates in pipes and can measure velocity and flow in pipes with outside diameters ranging from 0.98 to 4.62" (24.89 to 117.35 mm). This model comes with a volume pulse and 4 to 20 mA flow rate output.

FEATURES/BENEFITS

- Non-invasive pipe measurement
- Simple installation with all necessary components included such as converter,
- 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

KIT INCLUDES

- Flow measurement for heat metering Chilled water metering & monitoring
- Potable water metering & monitoring
- · Process water metering & monitoring
- Converter with adjustable guiderail Set of 1.81 to 2.75" (46 to 70 mm) clamps Set of 2 to 5" (51 to 127 mm) clamps Set of small pipe adaptor circle clamps Set of small pipe adaptor V clamps
 - Ultrasonic coupling grease

MODEL CHART

Model Description UFM-1 Compact ultrasonic flowmeter

Ø15/32 [123.46] 2-7/16 Ø12 001 [61.73] 59/64 4-7/64 đ [23.33] RFD [104.50] 16 4 BLACK 29/64 t [5 M] 59/64 GREEN [11.67] [23.40] WHITE BLUE // [BROWN SHIELD FEMALE SMB COAXIAI CONNECTORS 2X 1/2 [12.75] 1-7/64 59/64 45/64 [28.05] [17.70] [23.50] 4-5/32 ł ŧ [105.59] CE 1-1/64 Ē 31/32 [25,70] [24.45] Ŧ 3/4 [18.95]

SPECIFICATIONS

4-55/64

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 to 24 VDC

Power Requirements: 12 to 24 VDC or 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 to 20 mA; Error current: 3.5 mA; Load resistence: 620 O may: Pute: 1 optoresistance: 620 Ω max; Pulse: 1 optoisolated MOSFET relay, 500 mA max, 166 pps max, 200 Hz max.

Response Time: < 1 s. Weight: 2.9 lb (1.315 kg) Agency Approvals: CE. ADDITIONAL SPECIFICATIONS Applicable Pipe Material: Steel, copper, plastic Pipe Outside Diameter: 0.98 to 4.62"

Enclosure Rating: IP54. Enclosure Material: Plastic

polycarbonate.

cable.

(24.89 to 117.35 mm). Applicable Pipe Lining: None. Pipe Wall Thickness: 0.02 to 0.39″ (0.5 to 10 mm)

Repeatability: ±0.5% of measured value. Electrical Connections: 16.4' (5 m)

OPTIONS

2-7/16

[62.00]

1-3/16

[30.00]

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

USA: California Proposition 65

AWARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Flow Transmitters, **MODEL UTG**

ULTRASONIC THICKNESS GAGE

Ideal For Use with Ultrasonic Flow Transmitters, Adjustable Sound Velocity



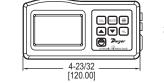
The MODEL UTG Ultrasonic Thickness Gages measures the thickness of a variety of materials. The UTG works on a variety of parallel surface material ranging from 0.05 to 7.9" (1.2 to 200 mm).

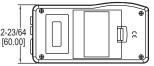
FEATURES/BENEFITS

- · Non-invasive thickness measurement
- · Reads in inches or millimeters and features an adjustable sound velocity to allow for Allows the user to find the wall thickness of the pipe when programming an ultrasonic
 Allows the user to find the wall thickness of the pipe when programming an ultrasonic
- transmitter without cutting or removing a section of the pipe to measure it Ideal for monitoring corrosion in closed vessels such as boilers and chemical tanks and with any ultrasonic flow transmitter

APPLICATIONS

- · Pipe thickness measurement
- Finding wall thickness
- Monitoring corrosion in closed vessels
 Industrial applications
- Automotive
- HVAC
- Plumbing





Humidity Limit: < 80%

replaceable

SPECIFICATIONS Sound Velocity: 1118 to 20132 mph (500 to 9000 m/s). Service: Steel, cast iron, aluminum, red copper, brass, zinc, quartz glass, polyethylene, PVC, gray cast iron, nodular cast iron, other. Selectable option for special materials with known Temperature Limits: 32 to 122°F (0 to 50°C Range: 0.047 to 7.874" (1.2 to 200 mm). Accuracy: ±0.5%. **Display:** 4 digits, 0.394" (10 mm) LCD. **Power Requirement:** (4) 1.5 V AAA alkaline batteries, not included, user Resolution: 0.001" / 0.1 mm

Weight: 5.78 oz (164 g). *Material must be uniform with minimal coating/paint

MODEL CHART	
Model	Description
UTG	Ultrasonic thickness ga

age

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