



Ultrasonic Flowmeter Set

Non-Invasive Pipe Flow Measurement, Easy Operation

Models Select Chart

Model	Description
UFB-122	Complete Ultrasonic flowmeter set, pipe size range 0.5 to 4.5" (13 to 115 mm), 86 to 264 VAC power supply.
UFB-123	Complete Ultrasonic flowmeter set, pipe size range 2 to 79" (50 to 2000 mm), 86 to 264 VAC power supply.
UFB-222	Complete Ultrasonic flowmeter set, pipe size range 0.5 to 4.5" (13 to 115 mm), 24 VAC/VDC power supply.
UFB-223	Complete Ultrasonic flowmeter set, pipe size range 2 to 79" (50 to 2000 mm), 24 VAC/VDC power supply.
UFC-122	Complete Ultrasonic flowmeter set, pipe size range 0.5 to 4.5" (13 to 115 mm), 86 to 264 VAC.
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UFC-223	Complete Ultrasonic flowmeter set, pipe size range 2 to 79" (50 to 2000 mm), 24 VAC/VDC.

Accessories

Model	Description
A-186	Silicone-based grease acoustic couplant, 3 oz tube.
A-188	Silicone-free acoustic couplant, 4 oz tube.
A-197	Silicone based RTV acoustic couplant, 2.8 oz.

Specifications:-	
Service	: Homogeneous liquids that do not contain more than 3% of air bubbles or particulate and capable of ultrasonic wave propagation.
Inputs	: TNC cable from sensors.
Range	: 0.33 to 33 ft/s (0.1 to 10 m/s).
Display	: 240 x 64 pixel graphic display, high contrast black on white with backlight; Languages: English, French, German, Swedish, Italian, Spanish, Portuguese, Russian, Norwegian, and Dutch; 5" W x 1.3" H (5 x 33.02 mm).
Accuracy	: ± 0.5 to $\pm 2\%$ of flow reading of flow rate > 0.03 ft/s (0.01 m/s) and pipe OD > 3.0 in (75 mm); $\pm 3\%$ of flow reading for flow rate > 0.03 ft/s (0.01 m/s) and pipe OD 0.5 to 3 in (13 to 75 mm); $\pm 6\%$ of flow reading for flow rate < 0.03 ft/s (0.01 m/s).
Power Requirements	: 86 to 264 VAC (50 to 60 Hz) or 24 VAC/VDC (1 A max).
Power Consumption	: 10.5 W.
Temperature Limits	: Transducer: -4 to 275°F (-20 to 135°C); Controller: -4 to 122°F (-20 to 50°C).

Outputs	: Analog: 1 opto-isolated output: 4 to 20 mA, 0 to 16 mA or 0 to 20 mA (selectable); Error current: 0 to 26 mA (selectable); Load resistance: 620 Ω max; Alarm: 2 opto-isolated MOSFET NO relays, 48 V at 500 mA, maximum 200 Hz; Pulsed: 1 opto-isolated MOSFET relay, 48 V at 500 mA, 1 to 250 pps; Pulse width: 2 to 500 ms (selectable).
Enclosure Rating	: IP65 when using TNC connector; Transducers IP54.
Materials	: Plastic ABS and aluminum.
Repeatability	: ± 0.5 % of measured value or 0.03 ft/s (0.01 m/s).
Electrical Connections	: Removeable screw-in type terminal block.
Mounting	: Wall mounted using 3 type M4 screws.
Turbidity	: <3 % by volume of particulate content.
Permissible Air Content	: <3% by volume.
Response Time	: <500 ms.
Weight	: >Unit not including accessories: 2.80 lb (1.26 kg); Unit including accessories: 9.92 lb (4.5 kg).

Agency Approvals	:	CE.
ADDITIONAL SPECIFICATIONS:		
Applicable Pipe Material	:	Carbon steel, SS, copper, UPVC/PVDF, concrete, mild steel, glass, brass.
Applicable Pipe Lining	:	Rubber, glass, concrete, epoxy, steel, other*.
Pipe Wall Thickness	:	0.04 to 3" (1 to 75 mm).
Pipe Lining Thickness	:	<1" (< 25 mm).
*Selectable option for special material with known propagation rate of lining material.		