



Portable Ultrasonic Flowmeter Kit

Portable, Non-Invasive and Data Logging Capability

Models Select Chart

Model	Description
PUB-10	Portable ultrasonic flowmeter converter Type A, 0.5" to 4.5" (13 to 115 mm) pipe diameter range.
PUB-20	Portable ultrasonic flowmeter converter Type B, 2" to 40" (50.7 to 1016 mm) pipe diameter range.

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 air bubbles capable of ultrasonic wave propagation.
Inputs	:	Lemo connector cable from sensors.
Range	:	0.33 to 65.62 ft/s (0.1 to 20 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; 5.2" W x 1.5" H.
Accuracy	:	±0.5 to 2% of flow reading for flow rate > 0.66 ft/s (0.2 m/s) and pipe ID > 2.95" (75 mm); ±3% of flow reading for flow rate > 0.66 ft/s (0.2 m/s) and pipe ID in range 0.512 to 2.95" (13 to 75 mm); ±6% of flow reading for flow rate < 0.66 ft/s (0.2 m/s).
Power Requirements	:	9 to 24 VDC, (1) 5-Cell NiMH battery, internal, factory replaceable (continuous operation time: 20 hours with back-light and output off) (recharging time: 6.5 hours, power adapter used).
Power Consumption	:	10.5 W.
Power Adapter	:	110/240 VAC adapter. UK, US, European adapters included.
Temperature Limits	:	-4 to 275°F (-20 to 135°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; Pulse: 1 opto-isolated MOSFET relay, 150 mA max, 500 pps max, 200 Hz max.
Enclosure Rating	:	Converter: IP54; Transducers: IP51.
Materials	:	Flame retardant injection molded ABS plastic.
Repeatability	:	±0.5 % of measured value or ±0.066 ft/s (0.02 m/s).
Electrical Connections	:	Multi-pin Lemo plugs.
Turbidity	:	< 3% by volume of particulate content.
Permissible Air Content	:	< 3% by volume.

Response Time	:	< 500 ms.
Weight	:	Unit without accessories: 2.3 lb (1.06 kg); Unit with accessories in carrying case: 13.23 lb (6.0 kg).
Agency Approvals	:	CE.
ADDITIONAL SPECIFICATIONS:-		
Applicable Pipe Material	:	Carbon steel, SS, copper, UPVC/PVDF, concrete, galvanized steel, 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 the lining material.		