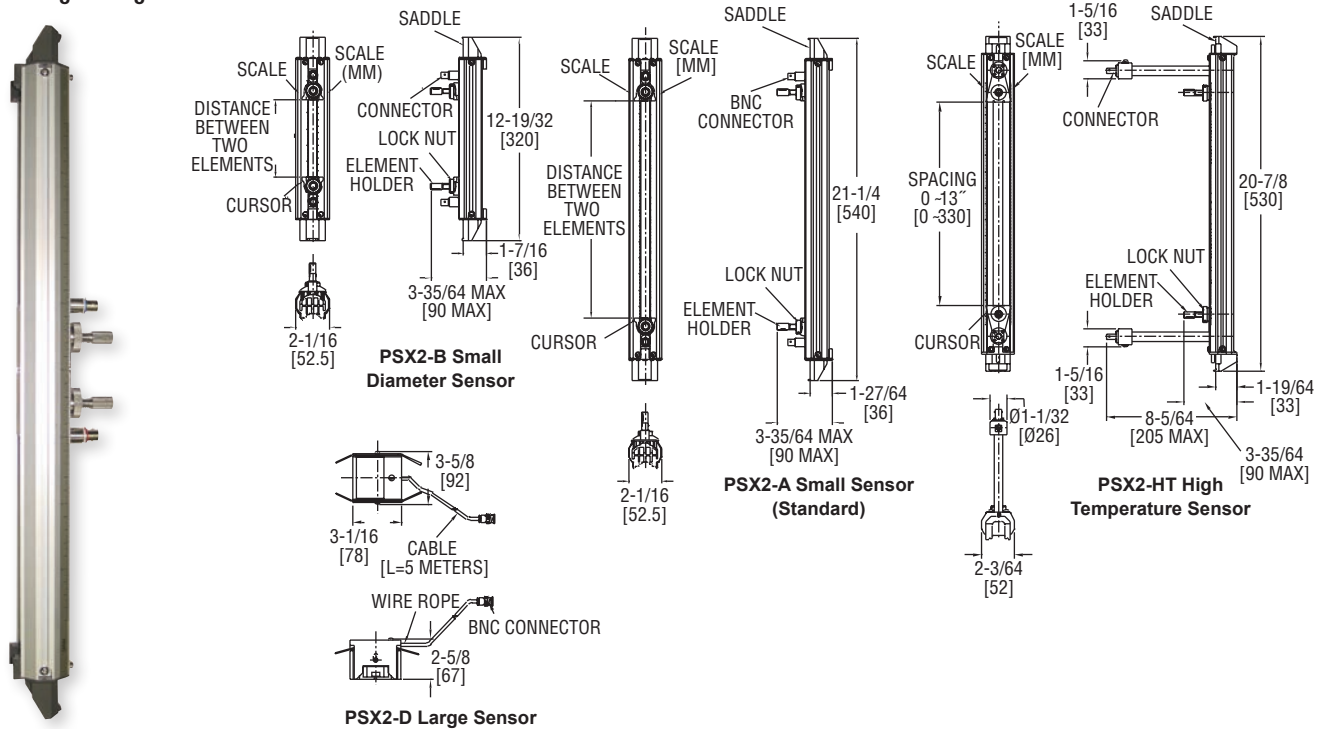


PORTABLE ULTRASONIC FLOWMETER DETECTOR

Compact and Lightweight



The **SERIES PSX2** Portable Ultrasonic Flowmeter Detectors is paired with Series PUX and PUX2 converters in order to utilize the transit-time difference for measuring flow rates in pipes from the outside.

FEATURES/BENEFITS

- Non-intrusive clamp-on sensor is easy to install, required little maintenance, and is free from pressure loss, corrosion, and leaking
- Compact and lightweight incorporating the latest electronics and digital signal processing technologies
- Realizes high performance and easy operation

APPLICATIONS

- Water treatment
- Industrial systems
- Irrigation applications
- Treated water flow
- River water
- Sea water
- Potable water
- Demineralized water
- Glycol/water mix
- Hydraulic system
- Diesel oil

SPECIFICATIONS

Service: Homogeneous liquids (water, sea water, oil, and fluid of unknown velocity) capable of ultrasonic wave propagation; Turbidity: 10000 deg. (mg/L) or less; State of flow: Axis-symmetric flow in pipe filled with fluid.
Range: 0 to ± 105 fps (0 to $+32$ m/s).
Accuracy: $\pm 1.0\%$ of rate, except PSX2-B: $\pm 1.5\%$ of rate.
Response Time: 1 s or less.
Temperature Limits: Ambient 140°F (60°C); Fluid Temperature: PSX2-A and PSX2-B: -40 to 212°F (-40 to 100°C); PSX2-D: -40 to 176°F (-40 to 80°C); PSX2-HT: -40 to 392°F (-40 to 200°C).

Enclosure Rating: Drip-proof, IP52 (NEMA 5); Large sensor, immersion proof, IP67 (NEMA 6).
Materials: PSX2-E, PSX2-B, and PSX2-D: Plastic case, and aluminum alloy and plastic mounting bracket; PSX2-HT: 304SS case, and aluminum alloy and 304SS mounting bracket.
Electrical Connection: Terminal screws.
Mounting: PSX2-E and PSX2-B: Plastic cloth belt; PSX2-D: SS wire; PSX2-HT: SS belt.
Weight: PSX2-E: 1.32 lb (0.6 kg); PSX2-B: 1.76 lb (0.8 kg); PSX2-D: 3.1 lb (1.4 kg); PSX2-HT: 3.75 lb (1.6 kg).

MODEL CHART

Model	Kind of Detector	Flow Pipe Size in (mm)
PSX2-A	Small sensor (2 MHz), general use structure	1.97 to 15.75 (50 to 400)
PSX2-B	Small diameter sensor, general use structure	0.51 to 3.94 (13 to 100)
PSX2-D	Large sensor, general use structure, 5 m coaxial cable	7.87 to 236.22 (200 to 6000)
PSX2-HT	High-temperature sensor, general use structure, 5 m coaxial cable	1.97 to 15.75 (50 to 400)

ACCESSORIES

Model	Description
A-186	Silicone-based grease acoustic couplant, 3 oz tube
A-187	Silicone RTV acoustic couplant, 4 oz tube
A-188	Silicone-free acoustic couplant, 4 oz tube