

Greyline

PTFM 1.0

Technical Specifications:

The PTFM 1.0 Portable Transit-Time Flow Meter is designed to measure clean, non-aerated liquids like water, chemicals, and oils with less than 2% solids or bubbles. The ultrasonic transducers can be mounted on vertical or horizontal pipes.



GENERAL SPECIFICATIONS

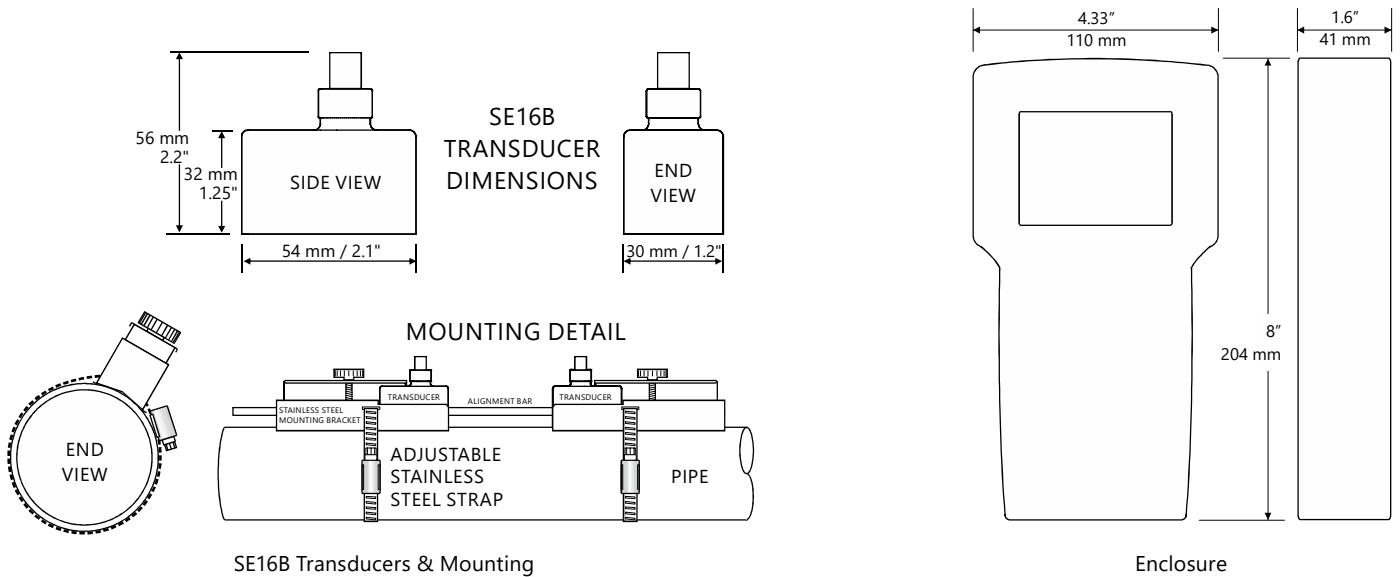
Operating Parameters:	For clean liquids in full pipes with less than 2% solids or gas bubbles
Calibration:	Built-in 5-key calibrator with English, French, and Spanish menu language selection
Electronics Enclosure:	Portable, ABS
Accuracy:	<ul style="list-style-type: none"> • $\pm 1\%$ of reading or 30 mm/s (1.2 in/s), whichever is greater • Repeatability & Linearity: $\pm 0.25\%$
Power Input:	<ul style="list-style-type: none"> • Built-in NiMH battery for up to 18 hours continuous operation • External charger with 100-240 V AC 50/60 Hz input
Display:	White, backlit matrix — displays 5-digit flow rate with floating decimal, 14-digit totalizer, calibration menu, and daily flow report
Outputs:	<ul style="list-style-type: none"> • 4-20mA (500 Ω) when AC powered • USB for Data Log transfer by direct PC connection
Data Logger:	Programmable 300,000 data point capacity, time and date stamped or formatted flow reports including total, average, minimum, maximum, and times of occurrence
PC Software:	Greyline Logger for Windows 98 or higher. Retrieves, displays and saves data log files.
Operating Temp. (Electronics):	-20 °C to +60 °C (-5 °F to +140 °F)
Carry Case:	Rated IP67 with protective molded foam inserts
Language Selection:	English, French, Spanish
Approvals:	AC Charger is CE and UL approved
Approximate Shipping Weight:	5.5 kg (12 lb)

TRANSDUCER SPECIFICATIONS

Pipe Diameter:	SE16B: Recommended for 50 mm to 250 mm (2 in to 10 in), Suitable for 50 mm to 1,200 mm (2 in to 48 in)
Pipe Materials:	Any metal or plastic sonic conducting material including carbon steel, stainless steel, ductile iron, cast iron, PVC, PVDF, fiberglass, copper, brass, aluminum, and pipes with bonded liners including epoxy, rubber, and Teflon
Flow Velocity:	± 0.021 m/s to 11.9 m/s (± 0.07 ft/s to 39 ft/s) typical
Operating Frequency:	1.28 MHz
Operating Temperature:	-40 °C to +150 °C (-40 °F to +300 °F)
Transducer Mounting Kit:	SE16B: Includes set of stainless steel transducer brackets, clamps, alignment bar, and coupling compound.
Transducer Cable:	RG-58 coaxial, 3.4 m (12 ft) with BNC connectors and seal jackets

POPULAR OPTIONS

Sensor Cable:	15.2 m (50 ft) coaxial pair with BNC connectors and seal jackets
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SE16B Transducers & Mounting

Enclosure

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

www.pulsarmeasurement.com



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