PULSAR
MEASUREMENT

Greyline

PTFM 6.1
Portable Transit Time Flow Meter

Technical Specifications:

Designed for challenging flow applications in industrial environments. Easily deployed whenever you need it. The portable transit-time flow meter is used to measure the flow of clean fluids like water, chemicals, and oils from the outside of the pipe. Multiple transducer sizes are available for the variety of pipe sizes and materials you need to measure.

GENERAL SPECIFICATIONS

Operating Parameters:	For clean fluids in full pipes, with typically less than 2% by-volume concentration of solids or bubbles. Also suitable for wastewater or sludge flows with low solids concentration.
Configuration:	Built-in 5-button keypad interface with English, French, and Spanish menu language selection
Electronics Enclosure:	IP67 when transducer cables connected. IP65 when transducers cables not connected. Aluminum enclosure with silicone protective end covers.
Flow Velocity Range:	±0.03 m/s to 12.2 m/s (±0.1 to 40 ft/s)
Accuracy:	• ±1% of reading or ±0.0046 m/s (+/- 0.015 ft/s), whichever is greater • Repeatability & Linearity: ±0.25%
Power Input:	• Built-in rechargeable lithium polymer battery for up to 15 hours continuous operation • External mains to USB-C charger with 100-240V AC, 50-60Hz, 0.6A input; and 5.0V DC, 3A, 15W output
Display:	Color TFT LCD display, IPS type, 2.8" screen size, 320 x 240 resolution, 500 NITS brightness, super wide view
Outputs:	Log files, daily log files, parameter settings files, and waveform capture files via USB-C flash drive (included)
Data Logger:	12 million point capacity, configurable for velocity or flow rate, date and time stamped, configurable format for Greyline Logger Software (LG2) or CSV, available intervals of 10 s, 30 s, 1 min, 2 min, 5 min, 10 min, 15 min, 30 min, and 1 hr
PC Software:	Free Greyline Logger Software for Windows. For display, manipulation, analysis, and exporting of data.
Operating Temp. (Electronics):	-20 °C to +60 °C (-5 °F to +140 °F)
Carry Case:	IP67, with protective molded foam, with room for all transducer sizes and installation hardware
Language Selection:	English, French, Spanish
Approvals:	CE
Approximate Shipping Weight:	5.5 kg (12 lb)

TRANSDUCER SPECIFICATIONS

Pipe Diameter, Nominal:	SE16A: Recommended for 15 mm to 50 mm (0.5 in to 2 in); Suitable for 50 mm to 150 mm (2 in to 6 in) SE16B: Recommended for 50 mm to 250 mm (2 in to 10 in); Suitable for 250 mm to 1,200 mm (10 in to 48 in) SE16C: Recommended for 300 mm to 1,200 mm (12 in to 48 in); Suitable for 100 mm to 300 mm (4 in to 12 in)
Pipe Materials:	Any metal or plastic sonic conducting material including carbon steel, stainless steel, ductile iron, concrete-lined ductile iron, cast iron, PVC, HDPE, PVDF, fiberglass, copper, brass, aluminum, and pipes with bonded liners including epoxy, rubber, and Teflon
Flow Velocity:	±0.03 m/s to 12.2 m/s (±0.1 ft/s to 40 ft/s) typical
Operating Frequency:	SE16A: 2.56 MHz SE16B: 1.28 MHz SE16C: 640 kHz
Operating Temperature:	-40 °C to +150 °C (-40 °F to +300 °F)

TRANSDUCER SPECIFICATIONS (CONT.)

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Transducer Mounting Kit:	SE16A: Includes stainless steel track with pipe clamps, built-in ruler, and coupling compound. SE16B: Includes set of stainless steel transducer brackets, clamps, alignment bar, and coupling compound. SE16C: Includes set of stainless steel transducer brackets, clamps, alignment bar with built-in ruler, and coupling compound.
Transducer Cable:	1 pair, triaxial, 3.4 m (12 ft) with waterproof plug & socket connector for electronics, and BNC connector with seal jacket for transducers
Ingress Protection:	IP65 with seal jackets installed. IP67 when installed with Super Lube synthetic grease inside BNC connectors and seal jackets.

ORDERING INFORMATION

Part No.	Sensor Configuration	Part No.	Sensor Configuration
PTFM 6.1-A	SE16A	**PTFM 6.1-D**	SE16A, SE16B
PTFM 6.1-B	SE16B	**PTFM 6.1-E**	SE16B, SE16C
PTFM 6.1-C	SE16C	**PTFM 6.1-F**	SE16A, SE16C
		PTFM 6.1-G	SE16A, SE16B, SE16C
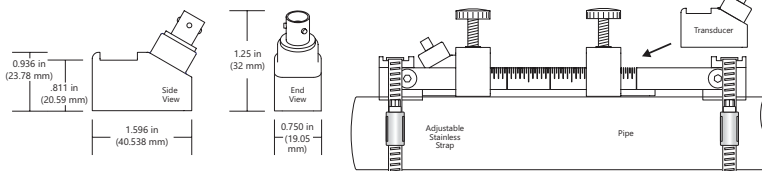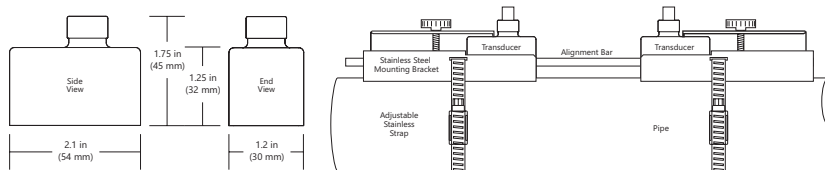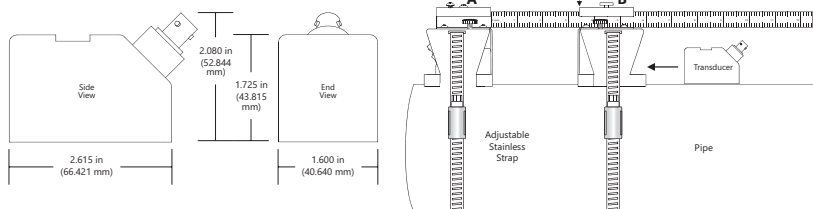
SE16A, SE16B, & SE16C Transducers & Mounting

Rev 1.0