



Greyline

TTFM 6.1

Technical Specifications:

With the TTFM 6.1, you never need to be an expert in contactless flow measurement to get the best results in your application. It's easy to choose with three transducer sizes that work on all common pipe materials. It's easy to use and maintain with standard installation hardware and intuitive setup menu. It's easy to get assistance with real-time sales and applications support. Great things come in threes, the meter made to make your life easy...



GENERAL SPECIFICATIONS

Operating Parameters:	For clean liquids in full pipes with less than 2% solids or gas bubbles
Programming:	Built-in 5-button keypad with English, French, and Spanish menu language selection
Electronics Enclosure:	NEMA4X (IP66) polycarbonate with clear, shatterproof cover
Accuracy:	±1% of reading from 0.46 to 12.2 m/s (1.5 to 40 ft/s); ±0.0046 m/s (±0.0015 ft/s) for velocities below 0.46 m/s (1.5 ft/s). Repeatability & Linearity: ±0.25%
Display:	White, backlit matrix — displays 5-digit flow rate with floating decimal, 14-digit totalizer, relay status, operating mode, and calibration menu
Power Input:	<ul style="list-style-type: none">• 100-240 V AC (50/60 Hz), 10 VA maximum• Optional: 9-32 V DC, 10 W maximum
Analog Output:	Isolated 4-20mA, 0-5 V, 1 kΩ load maximum
Control Relays:	<ul style="list-style-type: none">• 2 Relays, form 'C' dry contacts rated 5 A SPDT; programmable flow alarm and/or flow proportional pulse• Optional: 4 additional (6 total), rated 5 A SPDT
Data Logger:	Built-in 128 MB data logger with USB output and Windows software. Capacity for approx. 26 million data points
Operating Temp. (Electronics):	-20 °C to 60 °C (-5 °F to 140 °F)
Approximate Shipping Weight:	5.5 kg (12 lb)
Approvals:	CE, CSA, UL/EN 61010-1

TRANSDUCER SPECIFICATIONS

Pipe Diameter, Nominal:	SE16A: Recommended for 15 mm to 40 mm (0.5 in to 1.5 in), Suitable for 15 mm to 150 mm (0.5 in to 6 in) 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) SE16C: Recommended for 300 mm to 1,200 mm (12 in to 48 in), Suitable for 100 mm to 1,200 mm (4 in to 48 in)
Flow Velocity Range:	±0.021 m/s to 12.2 m/s (±0.07 ft/s to 40 ft/s)
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
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 Mounting Kit:	SE16A: Includes stainless steel track with pipe clamps, built-in ruler, and coupling tape. SE16B: Includes set of stainless steel transducer brackets, clamps, alignment bar, and coupling tape. SE16C: Includes set of stainless steel transducer brackets, clamps, alignment bar with built-in ruler, and coupling tape.
Transducer Cables:	Triaxial, 7.6 m (25 ft) with BNC connectors and seal jackets (extendable up to 152.4 m (500 ft))
Hazardous Locations:	<ul style="list-style-type: none">• Non-incendive for Class I, Div 2, Groups A, B, C, D• Optional: Intrinsically safe for Class I, Div 1, Groups C, D; Class II, Groups E, F, G; Class III; Encl. Type 4

POPULAR OPTIONS

Industrial Automation Protocols:

Modbus RTU via RS485 or HART (field selectable)

Transducer Cables:

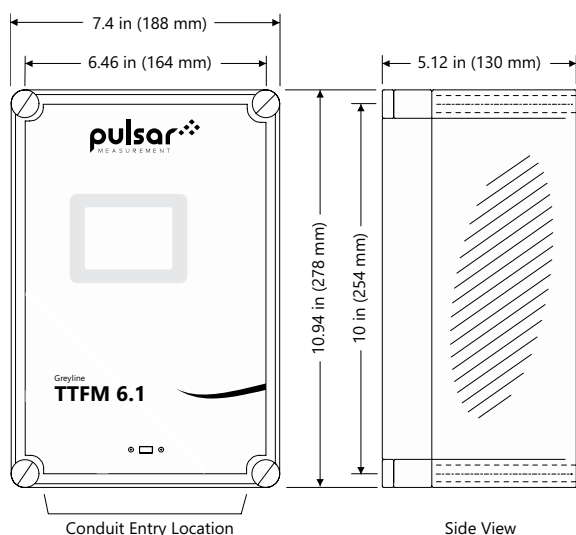
- 15.2 m (50 ft) triaxial with BNC connectors and seal jackets
- 30.5 m (100 ft) triaxial with BNC connectors and seal jackets

Enclosure Heater:

Thermostatically controlled to -40 °C (-40 °F) — recommended for temperatures below 0 °C (32 °F)

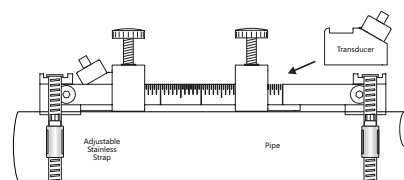
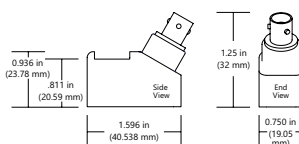
Sunscreen:

Enclosure sunscreen for outdoor installations

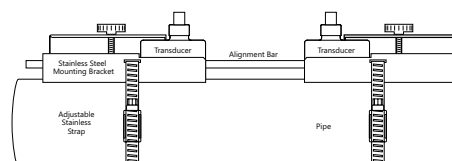
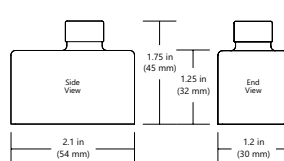


Greyline TTFM 6.1 drawing front and side

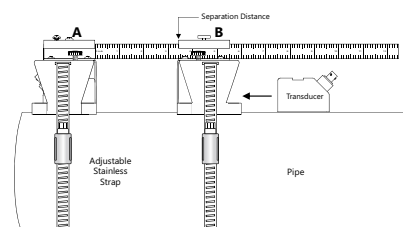
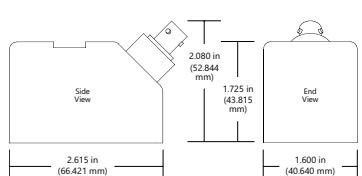
SE16A TRANSDUCERS



SE16B TRANSDUCERS



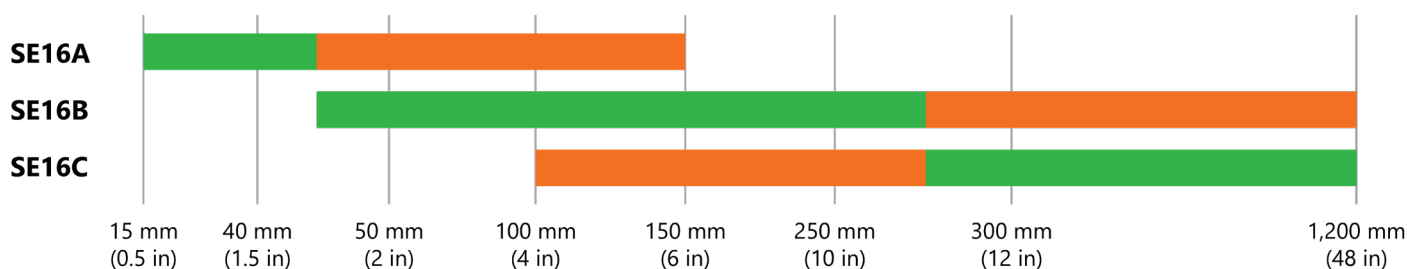
SE16C TRANSDUCERS



SE16A, SE16B, & SE16C Transducers & Mounting

TRANSDUCER NOMINAL PIPE SIZE RANGES

■ Recommended
■ Suitable



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