

Greyline

PDFM 5.1

Technical Specifications:

Use a Greyline PDFM 5.1 Portable Doppler Flow Meter to monitor and balance flow, or to troubleshoot flow problems in full pipes. It is ideal to evaluate performance of in-line flow meters and can be installed, calibrated and started-up in minutes.



GENERAL SPECIFICATIONS

Operating Parameters:	Liquids containing suspended solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm
Flow Rate Range:	±0.03 m/s to 12.2 m/s (±0.1 ft/s to 40 ft/s) in most applications
Pipe Size:	Ultrasonic sensor mounts on any pipe from 12.5 mm to 4.5 m ID (0.5 in to 180 in)
Display:	White, backlit matrix - displays flow rate, totalizer, operating mode and calibration menu
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
Analog Output:	<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 Vista or higher. Retrieves, displays and saves data log files
Operating Temp. (Electronics):	-23 °C to +60 °C (-10 °F to +140 °F)
Electronics Enclosure:	Portable, ABS enclosure
Carry Case:	Rated IP67 with protective molded foam insert
Accuracy:	±2% of reading or 0.03 m/s (0.1 ft/s). Requires solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm. Repeatability: ±0.1%, Linearity ±0.5%
Calibration:	Built-in 5-key programming with user-friendly calibration menu. Password protected
Language Selection:	English, French, Spanish
Sensitivity:	Adjustable cut-off, Damping: adjustable
Approvals:	CE, CSA/UL/EN 61010-1

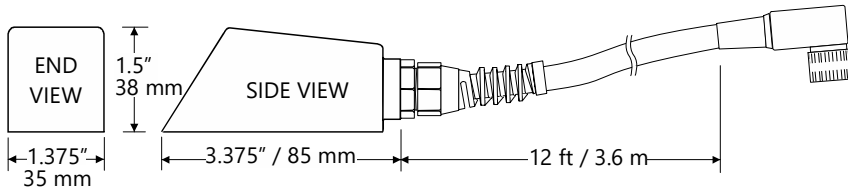
TRANSDUCER SPECIFICATIONS

Standard Model PSE4:	Clamp-on, single-head ultrasonic for pipes from 12.5 mm to 4.5 m ID (0.5 in to 180 in) with 3.4 m (12 ft) shielded dual-coaxial cable
Sensor Mounting Kit:	Stainless steel pipe clamp and 150 g (5.3 oz) silicone coupling compound
Pipe Materials:	Steel, stainless steel, cast iron, ductile iron, concrete lined ductile iron, PVC, HDPE, or any contiguous pipe material that conducts sound, including lined pipes with liner bonded to pipe wall. Avoid pipes with loose insertion liners and pipe walls which contain air.
Operating Temperature:	-40 °C to +150 °C (-40 °F to +300 °F)

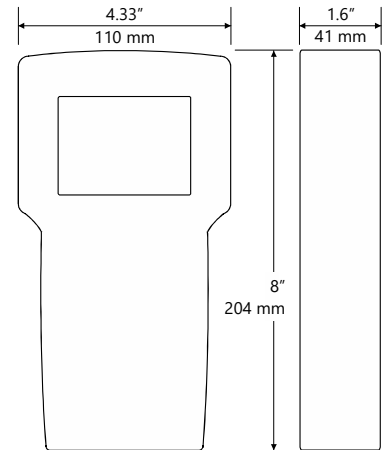
POPULAR OPTIONS

Sensor Cable: 15 m (50 ft) sensor cable extension, shielded, with connectors

Sensor Mounting: Extra silicone coupling compound. Additional stainless steel pipe clamps



PSE4 Ultrasonic Doppler Sensor



Enclosure

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors 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 allow 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



INFO@PULSARMEASUREMENT.COM

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Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales*

United States
11451 Belcher Road South
Largo, FL 33773
888-473-9546

Canada
16456 Sixsmith Drive
Long Sault, Ont. K0C 1P0
855-300-9151

United Kingdom
Cardinal Building, Enigma
Commercial Centre
Sandy's Road, Malvern WR14 1JJ
+44 (0) 1684 891371

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