

ML2000 Series Miniature High Performance Pressure Sensor

The ML2000 Series of high performance pressure transducers have been designed for demanding installations where space is extremely limited and high vibration and temperature are anticipated. This new design utilizes miniaturized hybrid components which allow savings in size and weight. The transducer has an enhanced performance at elevated temperature and is optimized for extreme installations. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations. Pressure ranges are available between 2.5 – 6000 psi. For OEM applications, we have many options available for customization.



Technical Specifications

Pressure Reference Absolute and Gauge

Standard Pressure Ranges (psi) 2.5, 5, 10, 15, 20, 25, 50, 75, 100, 150, 200, 300, 500, 750, 1000,

1500, 2000, 3000, 4000, 5000, 6000 Consult factory for ranges not listed.

Proof Pressure (Overload) Ranges ≤ 1500 psi = 4X FS, Ranges 1501 psi to 3000 psi = 3X FS,

Ranges > 3000 psi = 2X FS

Static Accuracy ±0.2% FS Combined Nonlinearity, Repeatability,

and Hysteresis (Standard)

±0.1% FS and ±0.08% FS Available

Output 4–20 mA or 0.5–4.5 Vdc

Power Supply 8–30 Vdc or 5V Ratiometric (Voltage Output)

9-40 Vdc (Current Output)

Operating Temperature Range -40°F to +300°F (-40°C to +150°C)

Compensated Temperature Range Standard: -40°F to +255°F

Total Error Band (TEB), Includes ± 0.25% Span (Voltage)
Static Accuracy, Thermal ± 0.6% Span (Current Loop)
Performance & Zero and Span Set

Comparison of Control of Contro

Bandwidth 1000Hz (Standard)

Frequencies up to 5000Hz available (Consult Factory)

Wetted Material Super Duplex (Zeron 100) (Standard)

Titanium, Hastelloy (Optional)

Fill Oil Halocarbon (Standard)

Others available (Refer to Page 2)

Electrical Connection Cable Options: PUR, FEP, DR25

Connector Options (Refer to Page 2)

Process Connection Imperial and Metric Ports Available (Refer to Page 2)

Protection Class IP67 (Cable Option)

Hermetic Connector (Absolute Reference)

Vibration Up to 5kHz Sine at 100g

Weight (Typical) 1.9oz (Not Including Cable), 1.7oz (Connector Option)

Features

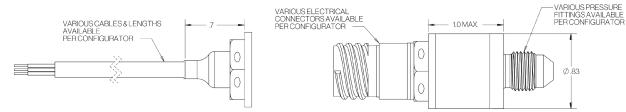
- Lightweight
- 2.5 to 6000 psi
- ±0.08% Accuracy
- Current and Voltage Outputs
- -40 to +300°F
- Up to 6000 psi

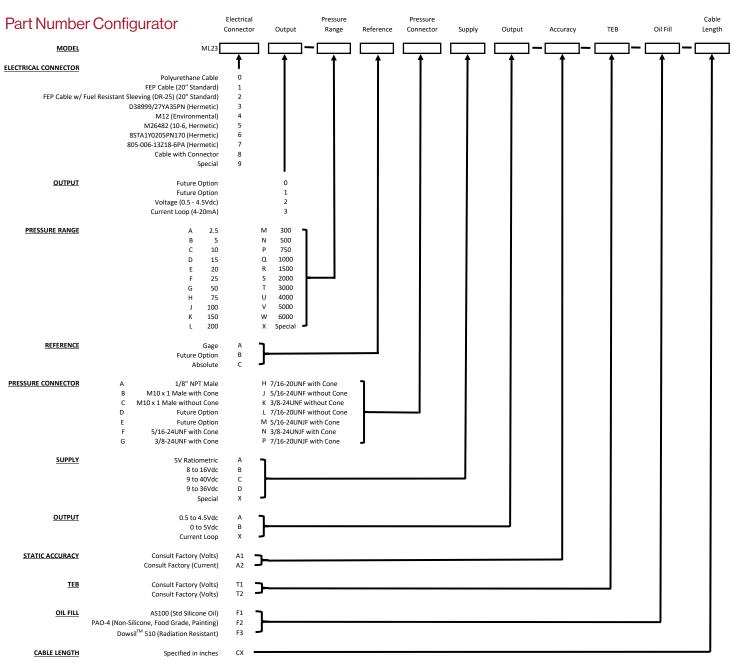
Applications

- Aerospace
- Space
- Motorsports
- Test and Measurement
- Fuel Cell
- Life Science
- Vehicle Development
- Industrial

^{*}PMC-STS, Inc. adopts a continuous development program which sometimes necessitates specification changes without notice.

Mechanical Details





4-20mA Current Loop

Electrical Connections

Cable Option				
+Supply	Return	Factory Use Only		
Red	Black	White		

Connector Option					
+Supply	Return	Factory Use Only	Not Connected		
Pin 1 (A)	Pin 2 (B)	Pin 3 (C)	All Others		

Voltage Output

	Cable Option				
+Supply	Common	+Output			
Red	Black	White			

_	Connector Option					
	+Supply	Common	+Output	Not Connected		
_	Pin 1 (A)	Pin 2 (B)	Pin 3 (C)	All Others		