

PM5 Series

Miniature Pressure Sensor

Ref: 507

Rev: C



DESCRIPTION

This miniature pressure sensor is designed to perform static and dynamic measurements in a corrosive environment. Entirely made out of titanium, this recessed membrane sensor is compatible with a large number of corrosive or conducting fluids. An integrated electronic system enables to deliver an analogical tension signal.

MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

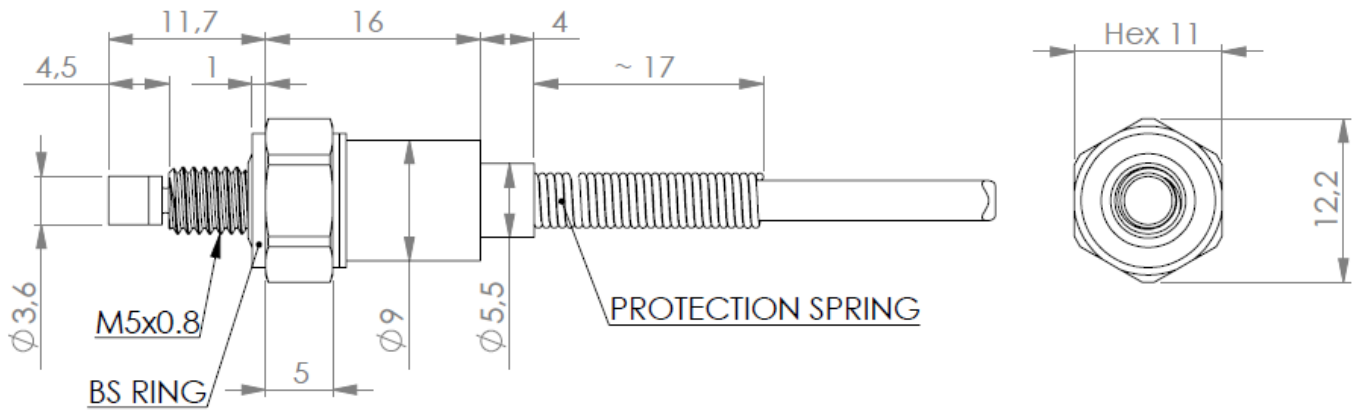
TECHNICAL DATA

MODEL		Low level output – mV					Amplified output – 4V				
INPUT	BAR	0-2	0-5	0-10	0-20	0-35	0-50	0-100	0-200	0-350	
Pressure Range	PSI	0-30	0-75	0-150	0-300	0-500	0-750	0-1500	0-3000	0-5000	
Pressure Type		Absolute, Relative, Sealed									
Over Pressure		2 Times Rated Pressure									
Burst Pressure		5 Times Rated Pressure									
Electrical Input / Consumption		1500 Ω nominal					< 30 mA				
Supply voltage		10 Vdc regulated					10 – 32 Vdc				
OUTPUT											
Full Scale Output (FS)		30 mV (2 bar) / 100 mV (> 2 bar)					4 V ± 200 mV				
Output Impedance		500 to 800 Ω					1000 Ω				
Zero Offset at 20°C		± 10 mV					0.5 V ± 200 mV				
Linearity		± 0.25% FS / ± 0.5% FS for 2 bar (30 psi) model									
Hysteresis		± 0.25% FS / ± 0.5% FS for 2 bar (30 psi) model									
Repeatability		± 0.2% FS									
Insulation		> 100 MΩ @ 50 Vdc									
ENVIRONMENTAL											
Operating Temperatures		-40 °C to 120 °C									
Compensated Temperatures		0 °C to 60 °C (see Options for other Compensated Temperatures)									
Thermal Zero Shift		< ± 2.5% FS / 60 °C / < ± 5% for 2 bar (30 psi) model									
Thermal Sensitivity Shift		< ± 2.5% FS / 60 °C / < ± 5% for 2 bar (30 psi) model									
Resonance Frequency		100-800 kHz depending on range					/				
Bandwidth (-3dB)		/					3 kHz				
PHYSICAL											
Electrical Connection		4 Conductor AWG28 Shielded Cable 2m long (see Options for other Cable Length)									
Mechanical Connection		M5x0.8									
Index of Protection		IP50 (see Options for other Index of Protection)									
Sealing		BSRing OD: 10 mm W: 1 mm									
Mounting Torque		5 Nm nominal 10 Nm Max									

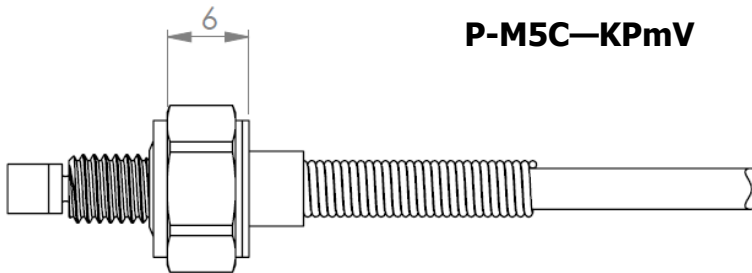
All values are typical at temperature 20 ± 1°C

SIZE (in mm)

P-M5C—KP4V

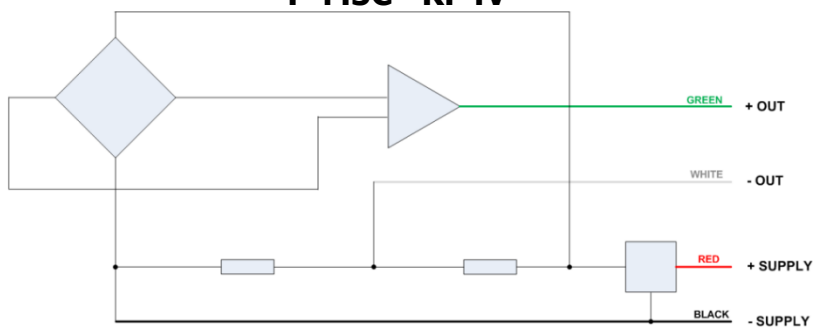


P-M5C—KPmV

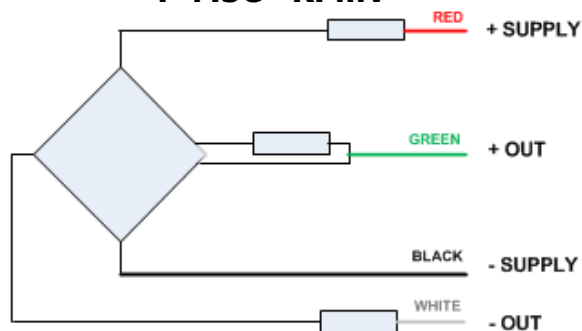


WIRING

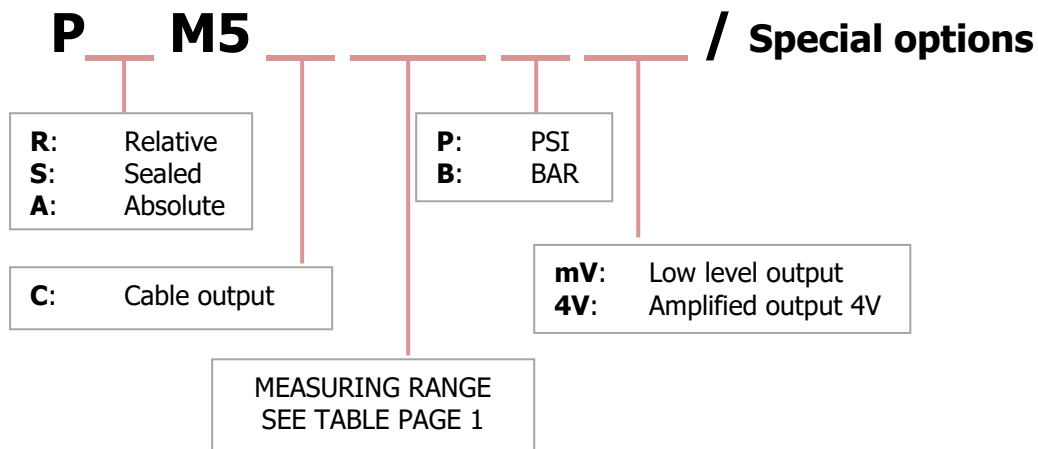
P-M5C—KP4V



P-M5C—KPmV



ORDERING INFORMATION



- **Special options**

OPTION	value	FEATURES
Cable Length	None	Length in meters (M) or feet (F) 2m (standard)
Compensated temperature	None C1 C2	0°C to +60°C (standard) -40°C to 60°C -40°C to 120°C
Index of Protection	None P65 P67	IP50 (standard) IP65 IP67
Specific option	X__	Contact us

Example: **PSM5C5KP4V / 5MC1P67**

- Sealed
- Metric M5 Thread
- Cable output
- 5 000 Psi
- 4V FS output
- 5-meter-long cable
- Compensated temperature : -40°C to 60°C
- Index of protection : IP67

CONTACT

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