

P6000 *Remote Mount Miniature Pressure Sensors*

Typical Applications

Industrial

- Oxygen Concentrators
- Respirators
- Sleep Apnea

Transportation

- Instrumentation
- Pneumatic Controls
- Robotics

Standard Full Scale Pressure Ranges

0-200 and 0-500 mBarG (Gage) 0-1, 0-2, 0-3.5, 0-5 and 0-7 BarG (Gage) or BarA (Absolute)

0-2.5 and 0-5 PSIG (Gage) 0-15, 0-30, 0-50, 0-75, and 0-100 PSIG (Gage) or PSIA (Absolute)

Features

- Rugged, Miniature Package
- Amplified, Temperature Compensated Linear Output
- Remote Mounting Option
- EMI/RFI & ESD Protected
- Custom Packaging and Pressure Ranges



Description

The P6000 series pressure sensors incorporate a silicon, piezo resistive sensing element in a compact package.

Using a 5Vdc input, the sensors provide a 0.5 to 4.5Vdc output, proportional to pressure. Internal temperature compensation provides an accurate, easy to use device.

The innovative remote mounting capability and customization features allow system designers to decouple their pressure sensing from PCB's.

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Note: Performance Specifications with 5.0 \pm 0.25 Vdc supply at 25°C

Pressure Ranges: Proof Pressure:	0 - 2.5 and 0 - 5 PSIG 0 - 15, 0 - 30, 0 - 50, 0 - 75, and 0 - 100 PSIA or PSIG 0 - 200 and 0 - 500 mBarG 0 - 1, 0 - 2, 0 - 3.5, 0 - 5 and 0 - 7 BarG or BarA 2X Max. Pressure
Burst Pressure:	3X Max. Pressure
Supply Voltage:	$5.0 \pm 0.25 \text{Vdc}$
Supply Current:	< 5mA
Nominal Output Voltage (Ratiometricity):	0.5 to 4.5 Vdc
Voltage Ratiometricity:	$\pm 1.5\%$ of Span Max.
Total Error Band*:	$\pm 2\%$ of Span above 2.5 PSI and 200 mBar (0°C to 85°C) $\pm 3\%$ of Span for 2.5 PSI and 200 mBar (0°C to 85°C) = 0.5% of Span
Accuracy:	< 0.5% of Span
Output Impedance: Response Time:	< 100 Ω < 10ms to 63% of Final Output Voltage with step change in Input Pressure
Operating Temperature:	0°C to 85°C
Storage Temperature: Service Life: Vibration: MechanicalShock: Weight:	-30°C to +100°C 10 Million Full Pressure Cycles (Minimum) 10g's Peak-to-Peak Sine (5 to 2,000 Hz) 50g's, 1/2 Sine Wave < 1.3 grams
Electrical Termination: - Option A: - Option B:	Pin Header Pin Header with Mating Connector with Lead wires 12" long
Preferred Mounting Position: Pressure Connection: Output Load:	No Position Sensitivity Barb for $3/16$ ID tubing 5K Ω Min. resistance between transducer output and ground, in parallel with 0.2 mF Max. capacitance

Over-Voltage Protection: Reverse Polarity Protection:



16 Vdc

-6 Vdc

Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non-compliance can result in serious injury and/or damage to the equipment.

How to Order

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Use this diagram, working top to bottom and left to right to construct your model number. An example is shown below. Custom OEM options are also available.

P6000 Remote Mount Miniature Pressure Transducer							
	Pressure Range						
	2.5	0 - 2	2.5 P	SIG			
	5	0 - 5	5 PS	G			
	15	0 - 15 PSIG or PSIA					
	30	0 - 3	30 PSIG or PSIA				
	50	0 - 5	0 - 50 PSIG or PSIA				
	75	0 - 75 PSIG or PSIA					
	100	0 - 1	- 100 PSIG or PSIA				
	0.2B	0 - 2) - 200 mBarG				
	0.5B	0 - 5	0 - 500 mBarG				
		-	- 1 BarG or BarA				
			2 BarG or BarA				
			3.5 BarG or BarA				
			- 5 BarG or BarA				
7B 0 - 7 BarG or BarA				G or BarA			
		Pressure Reference					
		A Absolute		olute			
		G	Gag	le			
			Ele	ctrical Termination			
			Α	Pin Header			
				Pin Header with Mating Connector 12" Lead Wires			
200	0 20	0	Δ				

P6000-30-G - A

Example: P6000 - 30 - G - A

Description: P6000 Pressure Sensor, 0 - 30 PSI, Gage, Pin Header with no Mating Connector

Don't see what you want? Call us at +1 (619) 710-2068 to customize this product to meet your application-specific needs!

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