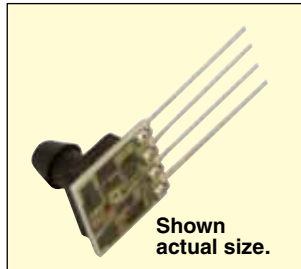


# MINIATURE SILICON PRESSURE SENSORS TEMPERATURE COMPENSATED



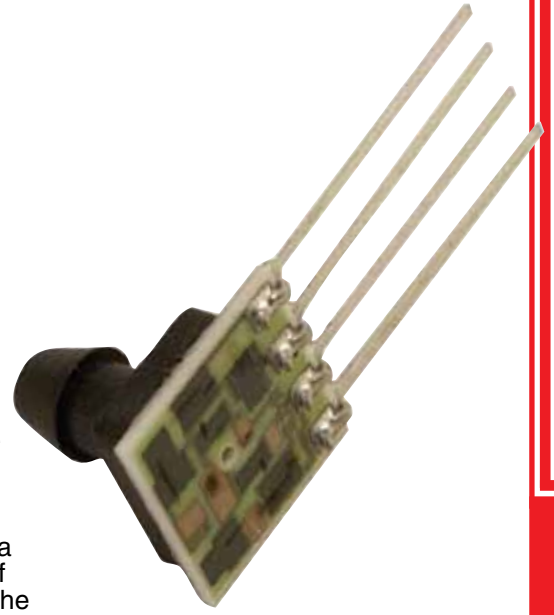
**Gage, Absolute or Differential Pressure**  
**4 inH<sub>2</sub>O to 150 psi**  
**10 mbar to 10 bar**

## PXCPC Series



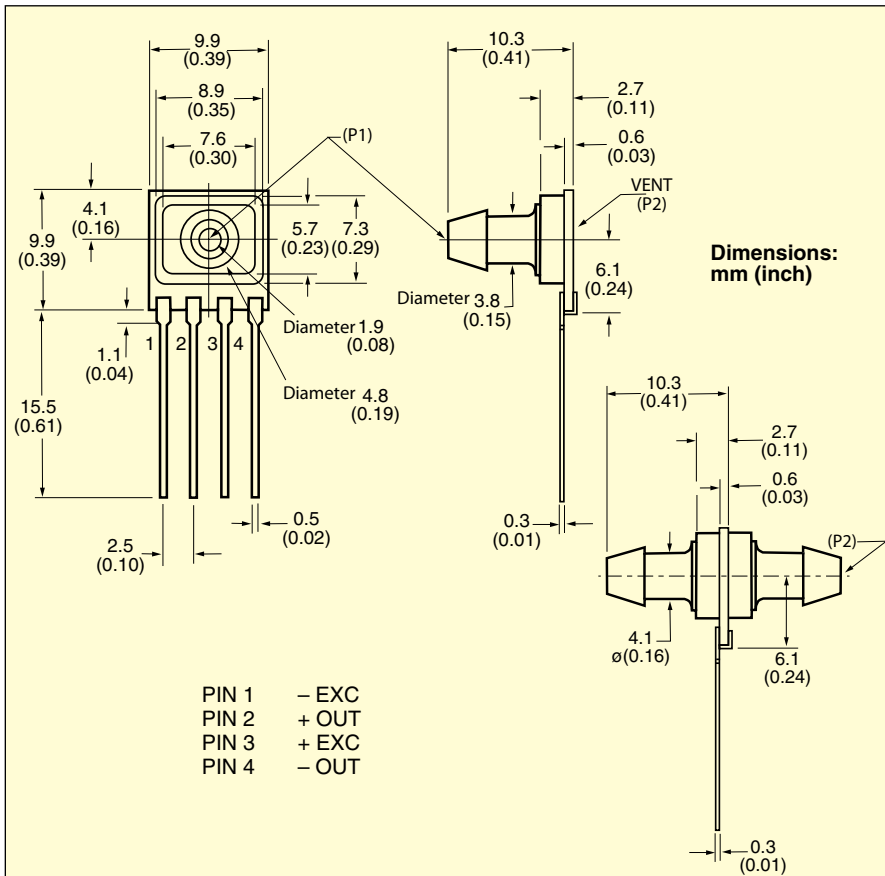
- ✓ Low Cost, Small Size, PC Board Mountable
- ✓ Micromachined Silicon Technology
- ✓ High Impedance, Low Current Draw
- ✓ 4-Pin Package
- ✓ For Use with Clean Dry Gases

The PXCPC Series pressure sensors come standard with tube pressure ports and use state-of-the-art micromachined silicon technology to deliver accurate, stable pressure measurement in a miniature package. On sensors of 5 psi and above the high side of the silicon is protected by a silicone gel coating. The sensors are designed for use with non-corrosive non-ionic gases. Many industrial and research gases fall into this category.



PXCPC

PRESSURE TRANSDUCERS  
**B**



## SPECIFICATIONS

@ 12 Vdc, 25°C (77°F)

**Excitation:** 12 Vdc typical (3 Vdc minimum to 16 Vdc maximum)

**Output mV (@ 12 Vdc) Range:**

- 4 inH<sub>2</sub>O: 25 ±2 mV
- 10 inH<sub>2</sub>O: 20 ±1 mV
- 1 psi: 18 ±1 mV
- 5 psi: 60 ±1 mV
- 15 to 60 psi: 90 ±5 mV
- 100 psi: 100 ±5 mV
- 150 psi: 90 ±5 mV

**Linearity, Hysteresis Error:** 0.25% typical 1% maximum

**Operating Temperature:** -25 to 85°C (-13 to 185°F)

**Compensated Temperature:** 0 to 70°C (32 to 158°F)

**Thermal Effects**

**Zero Shift:** ±1.0 mV

**Span Shift:** ±2.0% span

**Input Impedance:** 5 kΩ

**Output Impedance:** 3 kΩ

**Over Pressure (Maximum)**

**Absolute:** The lesser of 3 x full scale or 250 psi

**Gage/Diff:**

≤ 1 psi Range: 3 psi maximum

>1 psi: The lesser of 3 x full scale of 250 psi

**Common Mode Pressure:**

50 psi maximum

**Weight:** 2 g (0.06 oz)



**To Order Visit [omega.com/pxcpc](http://omega.com/pxcpc) for Pricing and Details**

RANGE		MODEL NO.	DESCRIPTION
psi	bar		
<b>GAGE PRESSURE</b>			
0 to 4 inH <sub>2</sub> O	0 to 10 mb	<b>PXCPC-004WCGV</b>	4 inH <sub>2</sub> O miniature pressure sensor
0 to 10 inH <sub>2</sub> O	0 to 25 mb	<b>PXCPC-010WCGV</b>	10 inH <sub>2</sub> O miniature pressure sensor
0 to 1 psi	0 to 69 mb	<b>PXCPC-001GV</b>	1 psig miniature pressure sensor
0 to 5	0 to 345 mb	<b>PXCPC-005GV</b>	5 psig miniature pressure sensor
0 to 15	0 to 1 bar	<b>PXCPC-015GV</b>	15 psig miniature pressure sensor
0 to 30	0 to 2	<b>PXCPC-030GV</b>	30 psig miniature pressure sensor
0 to 60	0 to 4	<b>PXCPC-060GV</b>	60 psig miniature pressure sensor
0 to 100	0 to 7	<b>PXCPC-100GV</b>	100 psig miniature pressure sensor
0 to 150	0 to 10	<b>PXCPC-150GV</b>	150 psig miniature pressure sensor
<b>ABSOLUTE PRESSURE</b>			
0 to 15	0 to 1 bar	<b>PXCPC-015AV</b>	15 psia miniature pressure sensor
0 to 30	0 to 2	<b>PXCPC-030AV</b>	30 psia miniature pressure sensor
0 to 60	0 to 4	<b>PXCPC-060AV</b>	60 psia miniature pressure sensor
0 to 100	0 to 7	<b>PXCPC-100AV</b>	100 psia miniature pressure sensor
0 to 150	0 to 10	<b>PXCPC-150AV</b>	150 psia miniature pressure sensor
<b>DIFFERENTIAL PRESSURE</b>			
0 to 4 inH <sub>2</sub> O	0 to 10 mb	<b>PXCPC-004WCDV</b>	4 inH <sub>2</sub> O miniature pressure sensor
0 to 10 inH <sub>2</sub> O	0 to 25 mb	<b>PXCPC-010WCDV</b>	10 inH <sub>2</sub> O miniature pressure sensor
0 to 1 psi	0 to 69 mb	<b>PXCPC-001DV</b>	1 psid miniature pressure sensor
0 to 5	0 to 345 mb	<b>PXCPC-005DV</b>	5 psid miniature pressure sensor
0 to 15	0 to 1 bar	<b>PXCPC-015DV</b>	15 psid miniature pressure sensor
0 to 30	0 to 2	<b>PXCPC-030DV</b>	30 psid miniature pressure sensor
0 to 60	0 to 4	<b>PXCPC-060DV</b>	60 psid miniature pressure sensor
0 to 100	0 to 7	<b>PXCPC-100DV</b>	100 psid miniature pressure sensor
0 to 150	0 to 10	<b>PXCPC-150DV</b>	150 psid miniature pressure sensor
<b>ACCESSORY</b>			
<b>CX136-4</b>	4-pin push on connector		

**Ordering Examples:** *PXCPC-030GV*, 30 psig gage pressure range miniature pressure sensor with 90 mV output @ 12 Vdc.

*PXCPC-015AV*, 15 psia absolute pressure range miniature pressure sensor with 90 mV output @ 12 Vdc.

*PXCPC-001DV*, 1 psid differential pressure range miniature pressure sensor with 18 mV output @ 12 Vdc.

## High Performance Meter

With High Resolution 6-Digit Display

### DP41-S Series



- ✓ Compatible with Strain Gage Bridge Sensors or Ratiometric Voltage Sensors
- ✓ Adjustable Filtering Up to 13 Hz
- ✓ Displays Up to 999,999 Counts
- ✓ NEMA 4 (IP65) Front Panel
- ✓ Remote Tare, Min, Max, Reset, and Hold Features

- ✓ Min/Max (Peak/Valley) Detection
- ✓ Red LED Display Standard, Green Optional



DP41-S strain gage indicator shown smaller than actual size. Visit [omega.com/dp41-s](http://omega.com/dp41-s) for details.

The high-performance DP41-S strain gage indicators have inputs for strain gage bridge and ratiometric voltage sensors. Built-in excitation is standard. The input range is selected via internal jumpers, and the user can perform scaling to engineering units on the front keypad. With optional RS232 or RS485 communications, the operator can program the display remotely.