

MINIATURE SILICON PRESSURE SENSORS TEMPERATURE COMPENSATED



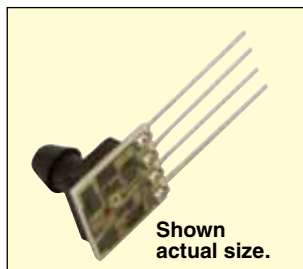
Gage, Absolute or Differential Pressure

4 inH₂O 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 inH₂O: 25 ± 2 mV

10 inH₂O: 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:

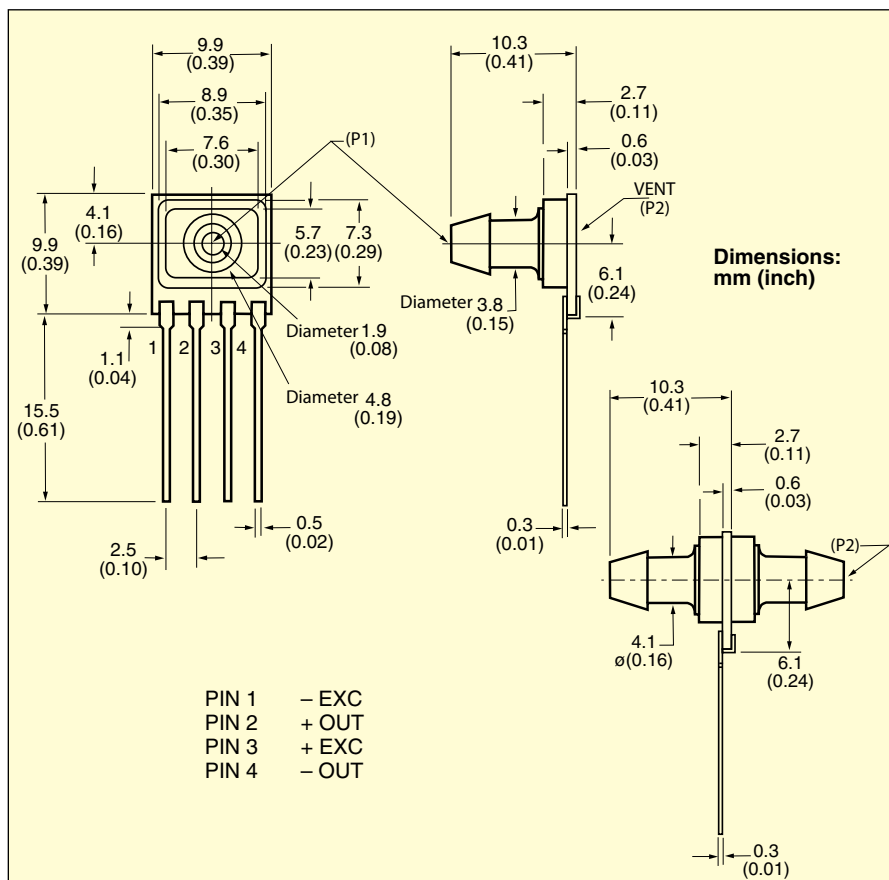
≤ 1 psi Range: 3 psi maximum

> 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 for Pricing and Details

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

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.



DP41-S strain gage indicator shown smaller than actual size. Visit omega.com/dp41-s for details.