SOLID STATE PRESSURE SENSORS
TEMPERATURE COMPENSATED

Absolute or Differential Pressure
4 inH$_2$O to 150 psi
10 mbar to 10 bar

PXSCX Series

- **Low Cost, Small Size, PC Board Mountable**
- **Laser Trimmed Solid State Technology**
- **High Impedance, Low Current Draw**
- **Chemical Resistant Package**
- **Compensated Over 0 to 70°C (32 to 158°F)**
- **For Use with Clean Dry Gases**
- **HVAC and Room Pressure Applications**

Shown actual size.

The PXSCX Series features an integrated circuit sensor element and laser trimmed circuitry in a small PC board mountable package. The PXSCX sensors are internally calibrated and temperature compensated to provide a stable and accurate output over a broad temperature range of 0 to 70°C (32 to 158°F). They are designed to work with dry, non-corrosive, non-ionic gases such as air and many common industrial and laboratory gases. Their fast 100 µsec response time makes them ideal for pneumatic control applications.

SPECIFICATIONS

@ 12 Vdc, 25°C (77°F)

Excitation: 12 Vdc typical (20 Vdc maximum) (18 Vdc maximum in inH$_2$O ranges)

Output mV (@ 12 Vdc): (Ratiometric)
- **4 inH$_2$O:** 40.0 ±2 mV
- **10 inH$_2$O:** 20.0 ±0.5 mV
- **1 psi:** 18 ±0.18 mV
- **5 psi:** 60 ±0.6 mV
- **15 to 60 psi:** 90 ±0.9 mV
- **100 psi:** 100 ±1 mV
- **150 psi:** 90 ±1 mV

Linearity, Hysteresis Error: ±0.1% typical, ±0.5% maximum (inH$_2$O Ranges: ±0.5 typical, ±1.0 maximum)

Zero Offset: ±300 uV (inH$_2$O Ranges: ±1.5 mV)

Response Time (90%): 100 µsec; (inH$_2$O Ranges: 500 µsec)

Long Term Stability of Offset and Span (1-year): ±0.1 mV (inH$_2$O Ranges: ±0.5% full scale)

Operating Temperature: -40 to 85°C (-40 to 185°F)

Compensated Temperature: 0 to 70°C [(32 to 158°F) (inH$_2$O Ranges: 0 to 50°C (32 to 122°F)]

Thermal Effects

Zero Shift: ±100 uV typical ±500 uV maximum (inH$_2$O ranges: ±0.5 mV typical, ±2.0 mV maximum)

Span Shift: ±0.2% span typical, ±1% maximum

Input Impedance: 4 kΩ

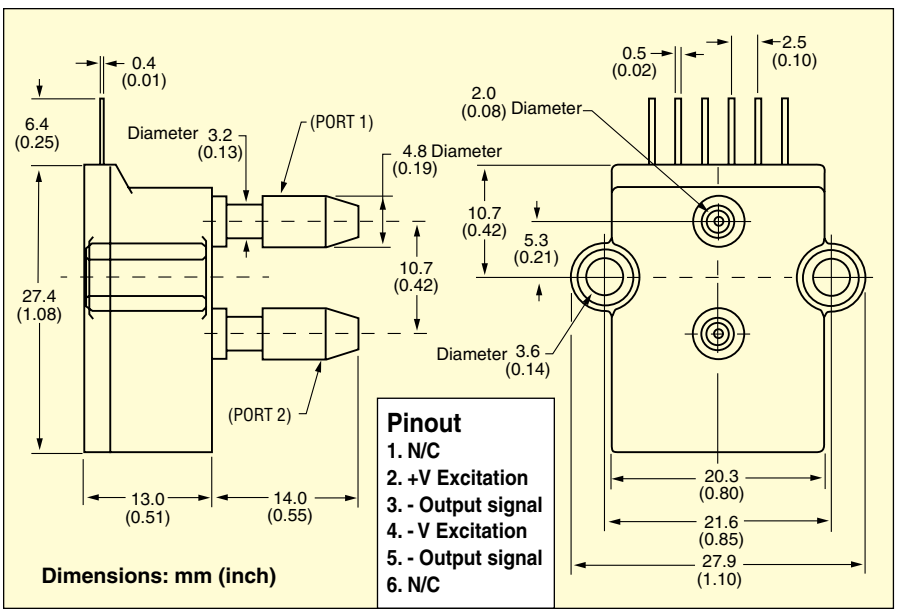
Output Impedance: 4 kΩ

Common Mode Pressure:
- **psi and 10 inH$_2$O Ranges:** 50 psi maximum
- **4 inH$_2$O Range:** 150 inH$_2$O maximum

Proof Pressure:
- **4 inH$_2$O:** 10 inH$_2$O maximum
- **10 inH$_2$O:** 10 psi maximum
- **1 to 5 psid:** 20 psid maximum
- **15 and 30 psid and psia:** 2x full scale maximum
- **100 and 150 psid and psia:** 150 psi maximum

Lead Solder Temperature: 250°C (482°F) 4-sec maximum

Weight: 5 g (0.18 oz)



Dimensions: mm (inch)

To Order *Visit omega.com/pxscx for Pricing and Details*			
RANGE		MODEL NO.	DESCRIPTION
psi	bar		
ABSOLUTE PRESSURE			
0 to 15	0 to 1 bar	**PXSCX-015AV**	15 psia solid state pressure sensor
0 to 30	0 to 2	**PXSCX-030AV**	30 psia solid state pressure sensor
0 to 60	0 to 4	**PXSCX-060AV**	60 psia solid state pressure sensor
0 to 100	0 to 7	**PXSCX-100AV**	100 psia solid state pressure sensor
0 to 150	0 to 10	**PXSCX-150AV**	150 psia solid state pressure sensor
DIFFERENTIAL PRESSURE			
0 to 4 inH_2O	0 to 10 mb	**PXSCX-004WCDV**	4 inH_2O solid state pressure sensor
0 to 10 inH_2O	0 to 25 mb	**PXSCX-010WCDV**	10 inH_2O solid state pressure sensor
0 to 1 psi	0 to 69 mb	**PXSCX-001DV**	1 psid solid state pressure sensor
0 to 5	0 to 345 mb	**PXSCX-005DV**	5 psid solid state pressure sensor
0 to 15	0 to 1 bar	**PXSCX-015DV**	15 psid solid state pressure sensor
0 to 30	0 to 2	**PXSCX-030DV**	30 psid solid state pressure sensor
0 to 60	0 to 4	**PXSCX-060DV**	60 psid solid state pressure sensor
0 to 100	0 to 7	**PXSCX-100DV**	100 psid solid state pressure sensor
0 to 150	0 to 10	**PXSCX-150DV**	150 psid solid state pressure sensor

Ordering Examples: PXSCX-015AV, *15 psia absolute pressure range solid state pressure sensor with 90 mV output @ 12 Vdc.*
PXSCX-001DV, *1 psid differential pressure range solid state pressure sensor with 18 mV output @ 12 Vdc.*

Economical Strain Indicators

with Built-In Sensor Excitation

DP25B-S

- **NEMA 4 (IP65) Front Panel**
- **4-Digit Display, -1999 to 9999 Counts**
- **Excitation Supply, Front Panel Tare, and Peak Hold Standard**
- **Accepts Voltage, Current, or Millivolt Inputs**
- **Easily Scaled to Display Readings in Engineering Units**
- **Program to Display in Red, Amber, or Green**

DP25B-S shown smaller than actual size. Visit omega.com/dp25b for details.

The DP25B-S is a low-cost digital panel meter for use with voltage, current, or bridge-type transducers. For bridge sensors, the DP25B-S has a ratiometric input to correct for variations in excitation voltage. Standard features include a front-panel tare button and a peak hold feature. Options include dual 5 A alarm relays and a scalable analog output configurable for 0 to 10V or 4 to 20 mA.