

PC BOARD MOUNTABLE PRESSURE SENSORS IN A TRANSISTOR (TO-5*) PACKAGE ECONOMICAL PRICE, HIGH PERFORMANCE

0-0.3 to 100 psi
0-0.02 to 0-6.9 bar

PX70 Series



- ✓ TO-5 Package Suitable for PC Board Mounting
- ✓ Gage, Absolute, and Differential Models
- ✓ Full Scale Ranges from 0.3 to 100 psi
- ✓ Top Fitting: For Non-Conductive, Clean, Dry Gases
- ✓ Bottom Fitting: Gasses and Liquids Compatible with Epoxy, Borosilicete Glass, and Silicon

The PX70 Series piezoresistive pressure sensors are packaged in a TO-5 case suitable for PC board mounting. The PX70 is available in full scale ranges from 0.3 to 100 psi as well as 4 standard package options. The PX71, for gage and absolute ranges, is available without fittings, while the PX72 has a top-mounted tube fitting (bottom is vent for gage). The PX73 is also available in gage ranges and has a bottom tube fitting (top is vent). For differential measurements, the PX74 has top and bottom tubes and can be used for unidirectional or bidirectional measurement.



MILLIVOLT OUTPUT
PRESSURE TRANSDUCERS

B

No Fitting
PX71



PX71-005GV shown 2x actual size.

Top Fitting
PX72



PX72-015GV shown 2x actual size.

To Order

NO FITTING GAGE AND DIFFERENTIAL PRESSURE RANGES		MODEL NO.
0 to 0.3 psi (8.3 inH ₂ O)	0 to 0.02 bar (2 kPa)	PX71-0.3GV
0 to 0.8 psi (22 inH ₂ O)	0 to 0.05 bar (5 kPa)	PX71-0.8GV
0 to 1.5 psi (42 inH ₂ O)	0 to 0.10 bar (10 kPa)	PX71-1.5GV
0 to 5.0 psi	0 to 0.34 bar	PX71-005GV
0 to 15 psi	0 to 1.0 bar	PX71-015GV
0 to 30 psi	0 to 2.1 bar	PX71-030GV
0 to 60 psi	0 to 4.1 bar	PX71-060GV
0 to 100 psi	0 to 6.9 bar	PX71-100GV
ABSOLUTE PRESSURE RANGES†		
0 to 5.0 psia	0 to 0.34 bar	PX71-005AV
0 to 15 psia	0 to 1.0 bar	PX71-015AV
0 to 30 psia	0 to 2.1 bar	PX71-030AV
0 to 60 psia	0 to 4.1 bar	PX71-060AV
0 to 100 psia	0 to 6.9 bar	PX71-100AV
TOP FITTING GAGE AND DIFFERENTIAL PRESSURE RANGES		MODEL NO.
0 to 0.3 psi (8.3 inH ₂ O)	0 to 0.02 bar (2 kPa)	PX72-0.3GV
0 to 0.8 psi (22 inH ₂ O)	0 to 0.05 bar (5 kPa)	PX72-0.8GV
0 to 1.5 psi (42 inH ₂ O)	0 to 0.10 bar (10 kPa)	PX72-1.5GV
0 to 5.0 psi	0 to 0.34 bar	PX72-005GV
0 to 15 psi	0 to 1.0 bar	PX72-015GV
0 to 30 psi	0 to 2.1 bar	PX72-030GV
0 to 60 psi	0 to 4.1 bar	PX72-060GV
0 to 100 psi	0 to 6.9 bar	PX72-100GV
ABSOLUTE PRESSURE RANGES†		
0 to 5.0 psia	0 to 0.34 bar	PX72-005AV
0 to 15 psia	0 to 1.0 bar	PX72-015AV
0 to 30 psia	0 to 2.1 bar	PX72-030AV
0 to 60 psia	0 to 4.1 bar	PX72-060AV
0 to 100 psia	0 to 6.9 bar	PX72-100AV

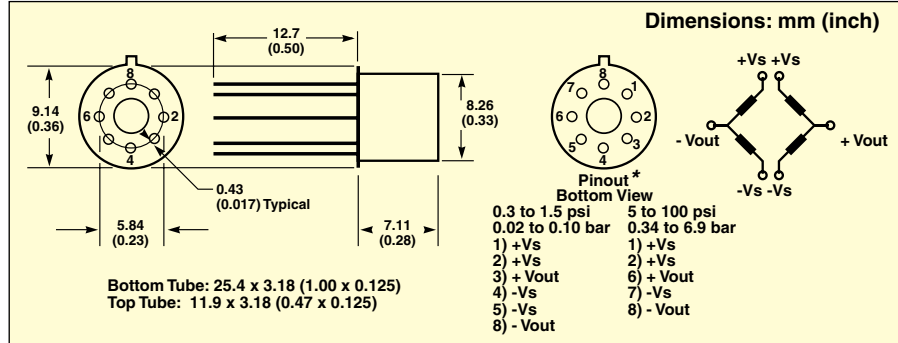
* TO-5 refers to the industry's name for this size case.

† Not suitable for helium or hydrogen applications.

PC BOARD MOUNTABLE PRESSURE SENSORS

SPECIFICATIONS

Linearity: $\pm 0.5\%$ FS
Repeatability: $\pm 0.3\%$ FS
Excitation: 5 Vdc (10 Vdc max)
Storage Temp Range: -40 to 125°C (-40 to 257°F)
Compensated Temp Range: -15 to 85°C (5 to 185°F)
Zero Temp Coefficient: 0.07% FS/°C
Span Temp Coefficient: 0.05% FS/°C
Bridge Impedance: 3300 \pm 700 Ω
Proof Pressure: Range < 100 psi = > 3x FS; 100 psi range = 2x FS
Burst Pressure: Range < 100 psi = > 5x FS; 100 psi range = 3x FS
Common-Mode Pressure: 50 psi
Compatible Meters: DP41-S, DP25-S
 Visit us online



* For PX73 reverse polarity on Vout terminals.



SENSITIVITY (@ 5 Vdc EXCITATION)			
RANGE	MIN	TYP	MAX
0.0 to 0.3 psi	80	165	250 mV/psi
0.0 to 0.8 psi	30	65	100 mV/psi
0.0 to 1.5 psi	15	35	55 mV/psi
0.0 to 5.0 psi	12	20	25 mV/psi
0 to 15 psi	7.0	9.5	12 mV/psi
0 to 30 psi	4.0	5.5	7.0 mV/psi
0 to 60 psi	2.0	3.0	4.0 mV/psi
0 to 100 psi	1.0	2.0	2.5 mV/psi

To Order		
BOTTOM FITTING GAGE AND DIFFERENTIAL PRESSURE RANGES		MODEL NO.
0 to 0.3 psi (8.3 inH ₂ O)	0 to 0.02 bar (2 kPa)	PX73-0.3GV
0 to 0.8 psi (22 inH ₂ O)	0 to 0.05 bar (5 kPa)	PX73-0.8GV
0 to 1.5 psi (42 inH ₂ O)	0 to 0.10 bar (10 kPa)	PX73-1.5GV
0 to 5.0 psi	0 to 0.34 bar	PX73-005GV
0 to 15 psi	0 to 1.0 bar	PX73-015GV
0 to 30 psi	0 to 2.1 bar	PX73-030GV
0 to 60 psi	0 to 4.1 bar	PX73-060GV
0 to 100 psi	0 to 6.9 bar	PX73-100GV

TOP AND BOTTOM FITTING GAGE AND DIFFERENTIAL PRESSURE RANGES		MODEL NO.
0 to 0.3 psi (8.3 inH ₂ O)	0 to 0.02 bar (2 kPa)	PX74-0.3DV
0 to 0.8 psi (22 inH ₂ O)	0 to 0.05 bar (5 kPa)	PX74-0.8DV
0 to 1.5 psi (42 inH ₂ O)	0 to 0.10 bar (10 kPa)	PX74-1.5DV
0 to 5.0 psi	0 to 0.34 bar	PX74-005DV
0 to 15 psi	0 to 1.0 bar	PX74-015DV
0 to 30 psi	0 to 2.1 bar	PX74-030DV
0 to 60 psi	0 to 4.1 bar	PX74-060DV
0 to 100 psi	0 to 6.9 bar	PX74-100DV

Comes complete with operator's manual.

Ordering Example: PX71-005AV, PC mountable pressure sensor with no fittings, 0 to 5 psi absolute pressure range.