

ALL STAINLESS STEEL TRANSDUCER MULTIMEDIA COMPATIBILITY HIGH-PERFORMANCE SILICON TECHNOLOGY



Gage/Absolute Pressure
0 to 5 Vdc Output
0-1 to 0-10,000 psi
0-70 mbar to 0-690 bar

PX309 Series



- ✓ 1, 2, and 5 psi Low Pressure Ranges
- ✓ Rugged, Solid State Design
- ✓ All Stainless Steel
- ✓ High Stability, Low Drift
- ✓ 0.25% Accuracy
- ✓ RoHS Compliant
- ✓ IP65 Protection Class

SPECIFICATIONS

Excitation: 9 to 30 Vdc (<10 mA)
(reverse polarity and overvoltage protected)

Output: 0 to 5 Vdc

Accuracy: $\pm 0.25\%$ FS BSL at 25°C;
includes linearity, hysteresis and repeatability

Zero Offset: $\pm 2\%$ FSO;
 $\pm 4\%$ for 1 and 2 psi ranges

Span Setting: $\pm 2\%$ FSO;
 $\pm 4\%$ for 1 and 2 psi ranges

Total Error Band: $\pm 2\%$ FSO, includes linearity, hysteresis, repeatability, thermal hysteresis and thermal errors (except 1 psi = $\pm 4.5\%$ and 2 psi = $\pm 3\%$)

Long-Term Stability (1 Year):
 $\pm 0.25\%$ typical

Typical Life: 10 million cycles

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

Compensated Temperature:
>5 psi Range: -20 to 85°C (-4 to 185°F)
 ≤ 5 psi Range: 0 to 50°C (32 to 122°F)

Proof Pressure:

psia and ≤ 50 psig: 3x capacity or 20 psi, whichever is greater
 ≥ 100 psi: 2x capacity



Burst Pressure: 5x capacity or 25 psi, whichever is greater

Response Time: <1 ms

Shock: 50 g, 11 ms half-sine shock

Vibration: ± 20 g

Wetted Parts: 316 SS for all psia ranges and 1 to 50 psig; 17-4 PH SS for ranges 100 to 10,000 psig

Pressure Port: 1/4-18 MNPT

Electrical Connections:

PX309: 1.5 m (5') 3-conductor cable

PX319: mini DIN connector with mating connector included

PX329: Twist-lock connector, mating connector sold separately (PT06V-10-6S)

Weight: 155 g (5.4 oz) maximum

Note: Units 100 psig and above may be subjected to vacuum on the pressure port without damage

For alternative performance specifications contact Engineering.

Order a snubber to protect your pressure transducer!



PS-4G, shown actual size.
Snubbers protect sensors from fluid hammers/spikes.



VOLTAGE OUTPUT
PRESSURE TRANSDUCERS
B

RUGGED, GENERAL PURPOSE TRANSDUCER

5 Vdc Output Wiring			
Wiring	Cable	Mini DIN	Twist-Lock
Excitation (+)	Red	Pin 1	Pin A
Excitation (-)	Black	Pin 2	Pin B
Output (+)	White	Pin 3	Pin C
NIC†		Pin 4	Pin D
Spare			Pin E
Vent			Pin F

Dimensions: mm (inch)

To Order				
RANGE		1.5 m CABLE CONNECTION	MINI DIN CONNECTION	TWIST-LOCK CONNECTION
bar	psi			
ABSOLUTE PRESSURE				
0 to 0.34	0 to 5	PX309-005A5V	PX319-005A5V	PX329-005A5V
0 to 1	0 to 15	PX309-015A5V	PX319-015A5V	PX329-015A5V
0 to 2.1	0 to 30	PX309-030A5V	PX319-030A5V	PX329-030A5V
0 to 3.4	0 to 50	PX309-050A5V	PX319-050A5V	PX329-050A5V
0 to 6.9	0 to 100	PX309-100A5V	PX319-100A5V	PX329-100A5V
0 to 14	0 to 200	PX309-200A5V	PX319-200A5V	PX329-200A5V
0 to 21	0 to 300	PX309-300A5V	PX319-300A5V	PX329-300A5V
GAGE PRESSURE				
0 to 0.07	0 to 1	PX309-001G5V	PX319-001G5V	PX329-001G5V
0 to 0.14	0 to 2	PX309-002G5V	PX319-002G5V	PX329-002G5V
0 to 0.34	0 to 5	PX309-005G5V	PX319-005G5V	PX329-005G5V
0 to 1	0 to 15	PX309-015G5V	PX319-015G5V	PX329-015G5V
0 to 2.1	0 to 30	PX309-030G5V	PX319-030G5V	PX329-030G5V
0 to 3.4	0 to 50	PX309-050G5V	PX319-050G5V	PX329-050G5V
0 to 6.9	0 to 100	PX309-100G5V	PX319-100G5V	PX329-100G5V
0 to 10	0 to 150	PX309-150G5V	PX319-150G5V	PX329-150G5V
0 to 14	0 to 200	PX309-200G5V	PX319-200G5V	PX329-200G5V
0 to 21	0 to 300	PX309-300G5V	PX319-300G5V	PX329-300G5V
0 to 34	0 to 500	PX309-500G5V	PX319-500G5V	PX329-500G5V
0 to 69	0 to 1000	PX309-1KG5V	PX319-1KG5V	PX329-1KG5V
0 to 138	0 to 2000	PX309-2KG5V	PX319-2KG5V	PX329-2KG5V
0 to 207	0 to 3000	PX309-3KG5V	PX319-3KG5V	PX329-3KG5V
0 to 345	0 to 5000	PX309-5KG5V	PX319-5KG5T	PX329-5KG5V
0 to 517	0 to 7500	PX309-7.5KG5V	PX319-7.5KG5V	PX329-7.5KG5V
0 to 690	0 to 10,000	PX309-10KG5V	PX319-10KG5V	PX329-10KG5V

ACCESSORIES

MODEL NO.	DESCRIPTION
CAL-3	Recalibration: 5-point NIST traceable
PT06V-10-6S	Mating twist-lock connector for PX329
CA-39-4PC22-5	Mating twist-lock connector with 1.5 m (5') cable for PX329
CX5302	Extra mating mini DIN connector for PX319

1/4 NPT Pressure Snubbers:
PS-4G = Gas
PS-4E = Lt Oil
PS-4D = Dense Lq

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PX309-100G5V, 100 psi gage pressure transducer with 0 to 5 Vdc output and 1 m cable termination.

PX319-015A5V, 15 psi absolute pressure transducer with 0 to 5 Vdc output and mini DIN termination. PX329-3KG5V, 3000 psi gage pressure transducer with 0 to 5 Vdc output and twist-lock termination. Mating connector sold separately; order PT06V-10-6S.