

# 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:** ±0.25% FS BSL at 25°C;  
 includes linearity, hysteresis and repeatability

**Zero Offset:** ±2% FSO;  
 ±4% for 1 and 2 psi ranges

**Span Setting:** ±2% FSO;  
 ±4% for 1 and 2 psi ranges

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

**Long-Term Stability (1 Year):**  
 ±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:** ¼-18 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			
<b>ABSOLUTE PRESSURE</b>				
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
<b>GAGE PRESSURE</b>				
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.