

ALL STAINLESS STEEL TRANSDUCER MULTIMEDIA COMPATIBILITY HIGH-PERFORMANCE SILICON TECHNOLOGY

Gage/Absolute Pressure
4 to 20 mA Output
0-1 to 0-10,000 psi
0-70 mbar to 0-690 bar

PX309 Series



Standard

- ✓ 1, 2, and 5 psi 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 (reverse polarity and overvoltage protected)

Output: 4 to 20 mA

Accuracy: $\pm 0.25\%$ FSO at 25°C; (includes linearity, hysteresis and repeatability)

Zero Offset: $\pm 2\%$ FSO, ($\pm 4\%$ 1 and 2 psi)

Span Setting: $\pm 2\%$ FSO, ($\pm 4\%$ 1 and 2 psi)

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

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:

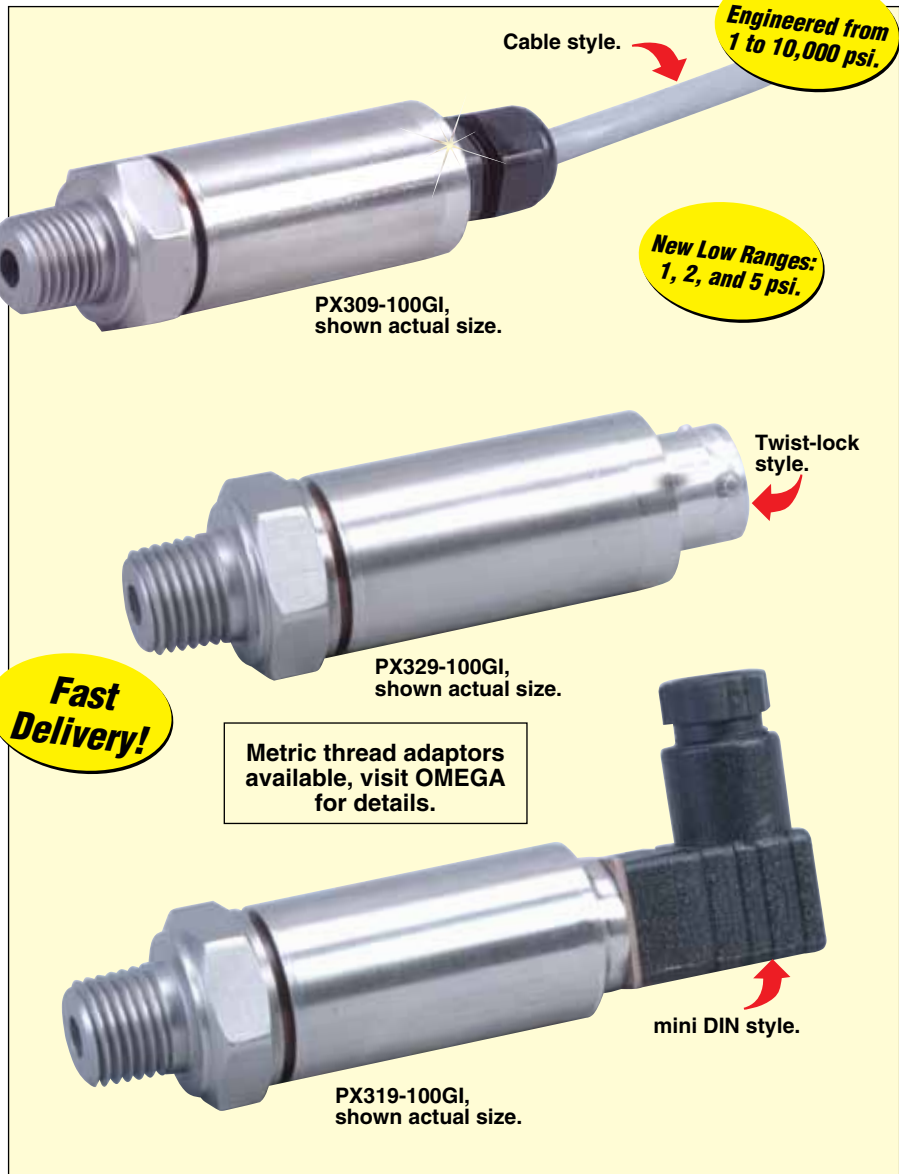
>5 psi Range: -20 to 85°C (-4 to 185°F)

≤5 psi Range: 0 to 50°C (-18 to 122°F)

Proof Pressure:

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

≥100 psi: 2x capacity



Burst Pressure: 500% 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') 2-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) max

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

For alternative performance specifications, contact Engineering.

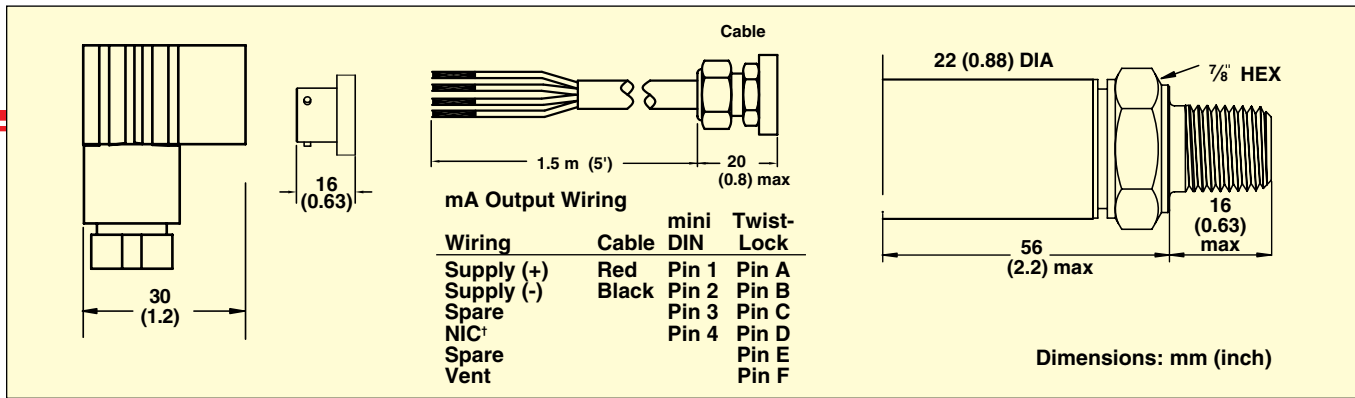
Order a snubber to protect your pressure transducer!



PS-4G, shown actual size.

Snubbers protect sensors from fluid hammers/spikes.

RUGGED, GENERAL PURPOSE TRANSDUCER



CURRENT OUTPUT
PRESSURE TRANSDUCERS

B

To Order

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

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PX309-100GI, 100 psi gage pressure transducer with 4 to 20 mA output and 1.5 m (5') cable termination.

PX319-015AI, 15 psi absolute pressure transducer with 4 to 20 mA output and mini DIN termination.

PX329-3KGI, 3000 psi gage pressure transducer with 4 to 20 mA output and twist-lock termination. PT06V-10-6S, mating connector sold separately.

ACCESSORIES

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