



ALL STAINLESS STEEL TRANSDUCER MULTIMEDIA COMPATIBILITY HIGH-PERFORMANCE SILICON TECHNOLOGY

PX309 Series

0 to 5 Vdc Output
0-1 to 0-10,000 psia
0-70 mbar to 0-690 bar

Starts at
\$225



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

SPECIFICATIONS

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

Output: 0 to 5 Vdc

Accuracy: $\pm 0.25\%$ includes linearity, hysteresis and repeatability

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

Span Setting: $\pm 2\%$ FSO;
 $\pm 4\%$ 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 (-18 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

PX309-100G5V, \$225, shown
smaller than actual size.



Engineered from
1 to 10,000 psi.

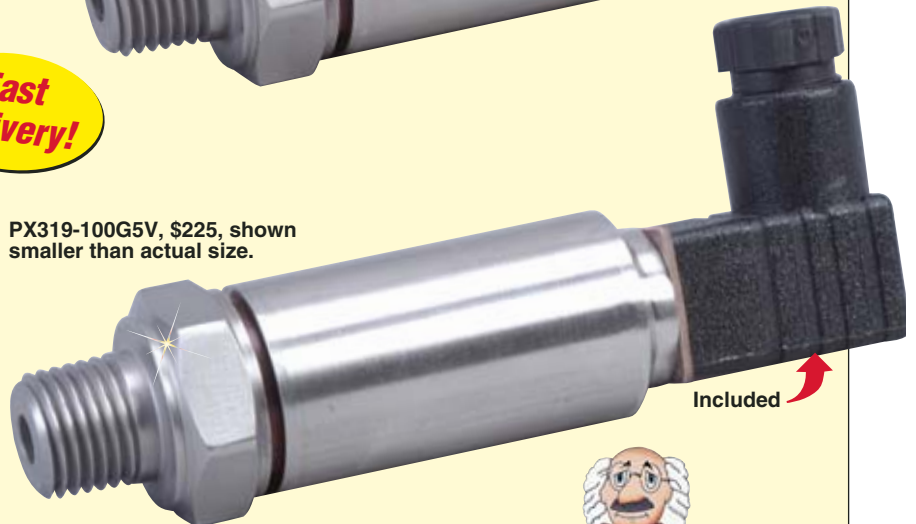
New Low Ranges:
1, 2, and 5 psi.

PX329-100G5V, \$275, shown
smaller than actual size.



Fast
Delivery!

PX319-100G5V, \$225, shown
smaller than actual size.



Included

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) max

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

For alternative performance specifications contact Engineering.



Technical
Books
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Online!

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Order a
snubber to
protect your
pressure
transducer!



PS-4G, \$10, shown actual size.

Snubbers protect sensors
from fluid hammers/spikes.



RUGGED, GENERAL PURPOSE TRANSDUCER



VOLTAGE OUTPUT
PRESSURE TRANSDUCERS

B

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
Spare		Pin 4	Pin D
Spare			Pin E
Vent			Pin F

Dimensions: mm (in)

NEW, LOW-PRESSURE RANGES HIGHLIGHTED

To Order (Specify Model Number)

RANGE		1.5 m CABLE CONNECTION	PRICE	MINI DIN CONNECTION	PRICE	TWIST-LOCK CONNECTION	PRICE
bar	psi						
ABSOLUTE PRESSURE							
0 to 0.34	0 to 5	PX309-005A5V	\$325	PX319-005A5V	\$325	PX329-005A5V	\$350
0 to 1	0 to 15	PX309-015A5V	245	PX319-015A5V	245	PX329-015A5V	295
0 to 2.1	0 to 30	PX309-030A5V	245	PX319-030A5V	245	PX329-030A5V	295
0 to 3.4	0 to 50	PX309-050A5V	245	PX319-050A5V	245	PX329-050A5V	295
0 to 6.9	0 to 100	PX309-100A5V	245	PX319-100A5V	245	PX329-100A5V	295
0 to 14	0 to 200	PX309-200A5V	245	PX319-200A5V	245	PX329-200A5V	295
0 to 21	0 to 300	PX309-300A5V	245	PX319-300A5V	245	PX329-300A5V	295
GAGE PRESSURE							
0 to 0.07	0 to 1	PX309-001G5V	\$345	PX319-001G5V	\$345	PX329-001G5V	\$370
0 to 0.14	0 to 2	PX309-002G5V	325	PX319-002G5V	325	PX329-002G5V	350
0 to 0.34	0 to 5	PX309-005G5V	300	PX319-005G5V	300	PX329-005G5V	325
0 to 1	0 to 15	PX309-015G5V	225	PX319-015G5V	225	PX329-015G5V	275
0 to 2.1	0 to 30	PX309-030G5V	225	PX319-030G5V	225	PX329-030G5V	275
0 to 3.4	0 to 50	PX309-050G5V	225	PX319-050G5V	225	PX329-050G5V	275
0 to 6.9	0 to 100	PX309-100G5V	225	PX319-100G5V	225	PX329-100G5V	275
0 to 10	0 to 150	PX309-150G5V	225	PX319-150G5V	225	PX329-150G5V	275
0 to 14	0 to 200	PX309-200G5V	225	PX319-200G5V	225	PX329-200G5V	275
0 to 21	0 to 300	PX309-300G5V	225	PX319-300G5V	225	PX329-300G5V	275
0 to 34	0 to 500	PX309-500G5V	225	PX319-500G5V	225	PX329-500G5V	275
0 to 69	0 to 1000	PX309-1KG5V	225	PX319-1KG5V	225	PX329-1KG5V	275
0 to 138	0 to 2000	PX309-2KG5V	225	PX319-2KG5V	225	PX329-2KG5V	275
0 to 207	0 to 3000	PX309-3KG5V	225	PX319-3KG5V	225	PX329-3KG5V	275
0 to 345	0 to 5000	PX309-5KG5V	225	PX319-5KG5T	225	PX329-5KG5V	275
0 to 517	0 to 7500	PX309-7.5KG5V	225	PX319-7.5KG5V	225	PX329-7.5KG5V	275
0 to 690	0 to 10,000	PX309-10KG5V	225	PX319-10KG5V	225	PX329-10KG5V	275

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
-NIST	\$75.00	5-point NIST-traceable calibration (must be ordered as a suffix with new transducer)
CAL-3	150.00	Recalibration: 5-point NIST traceable
PT06V-10-6S	26.50	Mating twist-lock connector for PX329
CA-39-4PC22-5	90.00	Mating twist-lock connector with 1.5 m (5') cable for PX329
CX5302	15.00	Extra mating mini DIN connector for PX319
ES-2272	190.00	Reference Book: Handbook of Heating, Ventilation, and Air Conditioning

Comes with certificate of conformance to specifications.

Ordering Examples: PX309-100G5V, 100 psi gage pressure transducer with 0 to 5 Vdc output and 1 m cable termination, \$225.

PX319-015A5V, 15 psi absolute pressure transducer with 0 to 5 Vdc output and mini DIN termination, \$300. PX329-3KG5V, 3000 psi gage pressure transducer with 0 to 5 Vdc output and twist-lock termination, \$275. Mating connector sold separately; order PT06V-10-6S, \$26.50.



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