

# ALL STAINLESS STEEL TRANSDUCER MULTIMEDIA COMPATIBILITY HIGH-PERFORMANCE SILICON TECHNOLOGY



**PX309 Series**  
4 to 20 mA Output  
0-1 to 0-10,000 psi  
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 (reverse polarity and overvoltage protected)

**Output:** 4 to 20 mA

**Accuracy:**  $\pm 0.25\%$  (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:**  $\pm 20$  g

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



Engineered from 1 to 10,000 psi.

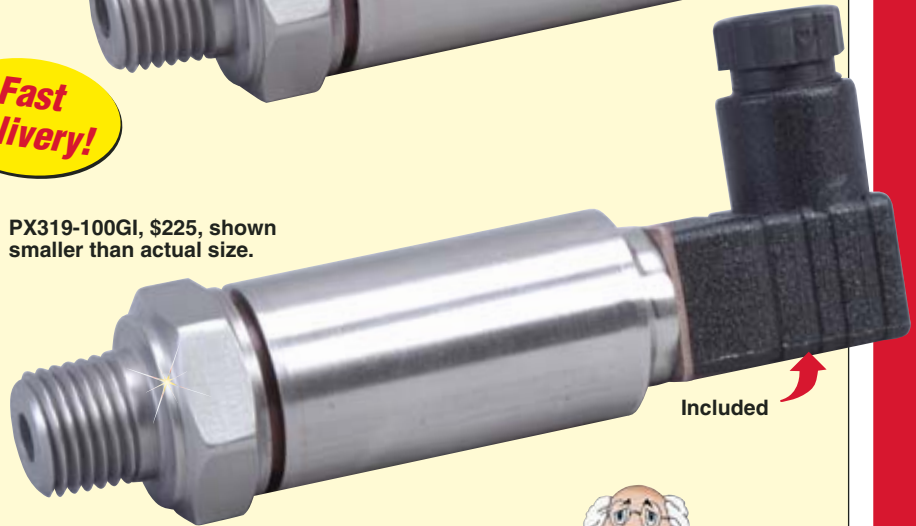
New Low Ranges: 1, 2, and 5 psi.

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



Fast Delivery!

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



Included

**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, \$10, shown actual size.

Snubbers protect sensors from fluid hammers/spikes.

↓  
CURRENT OUTPUT  
PRESSURE TRANSDUCERS  
B



# RUGGED, GENERAL PURPOSE TRANSDUCER

| mA Output Wiring |       | Mini DIN | Twist-Lock |
|------------------|-------|----------|------------|
| Supply (+)       | Red   | Pin 1    | Pin A      |
| Supply (-)       | Black | Pin 2    | Pin B      |
| Spare            |       | 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         |                        |       |                     |       |                       |       |
| <b>ABSOLUTE PRESSURE</b> |             |                        |       |                     |       |                       |       |
| 0 to 0.34                | 0 to 5      | PX309-005AI            | \$325 | PX319-005AI         | \$325 | PX329-005AI           | \$350 |
| 0 to 1                   | 0 to 15     | PX309-015AI            | 245   | PX319-015AI         | 300   | PX329-015AI           | 325   |
| 0 to 2.1                 | 0 to 30     | PX309-030AI            | 245   | PX319-030AI         | 300   | PX329-030AI           | 325   |
| 0 to 3.4                 | 0 to 50     | PX309-050AI            | 245   | PX319-050AI         | 300   | PX329-050AI           | 325   |
| 0 to 6.9                 | 0 to 100    | PX309-100AI            | 245   | PX319-100AI         | 300   | PX329-100AI           | 325   |
| 0 to 14                  | 0 to 200    | PX309-200AI            | 245   | PX319-200AI         | 300   | PX329-200AI           | 325   |
| 0 to 21                  | 0 to 300    | PX309-300AI            | 245   | PX319-300AI         | 300   | PX329-300AI           | 325   |
| <b>GAGE PRESSURE</b>     |             |                        |       |                     |       |                       |       |
| 0 to 0.07                | 0 to 1      | PX309-001GI            | \$345 | PX319-001GI         | \$345 | PX329-001GI           | \$370 |
| 0 to 0.14                | 0 to 2      | PX309-002GI            | 325   | PX319-002GI         | 325   | PX329-002GI           | 350   |
| 0 to 0.34                | 0 to 5      | PX309-005GI            | 300   | PX319-005GI         | 300   | PX329-005GI           | 300   |
| 0 to 1                   | 0 to 15     | PX309-015GI            | 225   | PX319-015GI         | 225   | PX329-015GI           | 275   |
| 0 to 2.1                 | 0 to 30     | PX309-030GI            | 225   | PX319-030GI         | 225   | PX329-030GI           | 275   |
| 0 to 3.4                 | 0 to 50     | PX309-050GI            | 225   | PX319-050GI         | 225   | PX329-050GI           | 275   |
| 0 to 6.9                 | 0 to 100    | PX309-100GI            | 225   | PX319-100GI         | 225   | PX329-100GI           | 275   |
| 0 to 10                  | 0 to 150    | PX309-150GI            | 225   | PX319-150GI         | 225   | PX329-150GI           | 275   |
| 0 to 14                  | 0 to 200    | PX309-200GI            | 225   | PX319-200GI         | 225   | PX329-200GI           | 275   |
| 0 to 21                  | 0 to 300    | PX309-300GI            | 225   | PX319-300GI         | 225   | PX329-300GI           | 275   |
| 0 to 34                  | 0 to 500    | PX309-500GI            | 225   | PX319-500GI         | 225   | PX329-500GI           | 275   |
| 0 to 69                  | 0 to 1000   | PX309-1KGI             | 225   | PX319-1KGI          | 225   | PX329-1KGI            | 275   |
| 0 to 138                 | 0 to 2000   | PX309-2KGI             | 225   | PX319-2KGI          | 225   | PX329-2KGI            | 275   |
| 0 to 207                 | 0 to 3000   | PX309-3KGI             | 225   | PX319-3KGI          | 225   | PX329-3KGI            | 275   |
| 0 to 345                 | 0 to 5000   | PX309-5KGI             | 225   | PX319-5KGI          | 225   | PX329-5KGI            | 275   |
| 0 to 517                 | 0 to 7500   | PX309-7.5KGI           | 225   | PX319-7.5KGI        | 225   | PX329-7.5KGI          | 275   |
| 0 to 690                 | 0 to 10,000 | PX309-10KGI            | 225   | PX319-10KGI         | 225   | PX329-10KGI           | 275   |

Comes with certificate of conformance to specifications.

**Ordering Examples:** PX309-100GI, 100 psi gage pressure transducer with 4 to 20 mA output and 1.5 m cable termination, \$225. PX319-015AI, 15 psi absolute pressure transducer with 4 to 20 mA output and mini DIN termination, \$300. PX329-3KGI, 3000 psi gage pressure transducer with 4 to 20 mA output and twist-lock termination, \$275. Mating connector sold separately; order PT06V-10-6S, \$26.50.

## 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               |





#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
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1-800-TC-OMEGA

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0800-8266342

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