ALL STAINLESS STEEL TRANSDUCER **MULTIMEDIA COMPATIBILITY**

HIGH-PERFORMANCE SILICON TECHNOLOGY

PX309 Series

0-1 to 0-10,000 psi 0-0.07 to 0-690 bar 100 mV. 0 to 5 V. and 4 to 20 mA Outputs

Starts at \$175



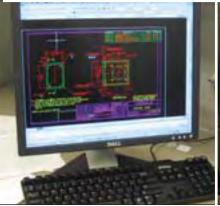


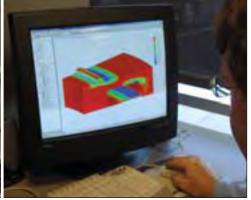
- All Stainless Steel Construction
- ✓ Gage or Absolute **Pressure**
- Rugged Solid State Design
- ✓ High Stability, Low Drift
- ✓ 0.25% Accuracy Typical
- ✓ IP 65 Protection Class



We provide a complete range of services—from product inception, through design and prototypes, to manufacturing and testing. Our application engineers work closely with our customers to customize, design or create entirely new

products. Call us—whether vou're an OEM.

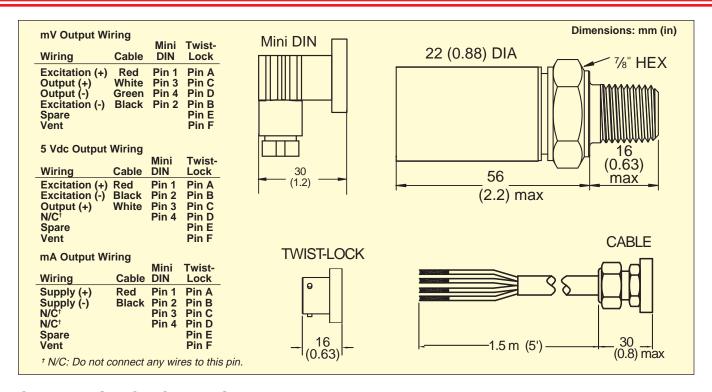








RUGGED, GENERAL PURPOSE TRANSDUCER COMMON SPECIFICATIONS



COMMON SPECIFICATIONS

OMEGA's PX309 Series models below 100 psi use a high-accuracy silicon sensor protected by an oilfilled stainless steel diaphraam. Units 100 psi and above use silicon strain gages molecularly bonded to the stainless steel diaphragm

Long-Term Stability (1 Year):

±0.25% typical

Typical Life: 10 million cycles typical Operating Temperature: -40 to 85°C (-40 to 185°F)

Proof Pressure:

All psia and ≤50 psig Ranges:

3x capacity or 20 psi, whichever is greater

100 psig Ranges: 2x capacity Burst Pressure: 500% of capacity or 25 psi, whichever is greater

Response Time: <1 ms Shock: 50 g, 11 ms half-sine

Vibration: ±20 g Protection Class: IP 65

Wetted Parts:

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

Pressure Port: 14-18 MNPT **Electrical Connections:**

PX309: 1.5 m (5') 2-, 3-, or 4-conductor cable (mA, 5V, mV

outputs, respectively)

PX319: Mini DIN connector with

Compatible Meters/Controllers for PX309 Series Pressure Transducers

Starting at \$195, the iSeries is available in 1/32, 1/46, and 1/4 DIN programmable process controllers with serial and embedded Internet/Ethernet communications (Order El Option CNi16D). The iSeries features programmable color displays, free software and **ActiveX Controls.** selectable full autotune PID



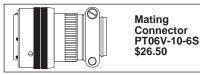
control, and NEMA 4 (IP65) rated front bezel. Ordering Examples: DPiS8, strain/process (monitor only), 1/2 DIN, \$300; CNiS8, strain/process controller with 2 control outputs, \$370.

mating connector included

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

Weight:

PX309: 154 g (5.4 oz) **PX319:** 100 g (3.5 oz) **PX329:** 100 g (3.5 oz)



Order a snubber to protect your pressure transducer!



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

Snubbers protect sensors from fluid hammers/spikes.

HOW TO ORDER PX309 SERIES

RUGGED, GENERAL PURPOSE TRANSDUCERS **WITH 100 mV OUTPUTS**

0 to 0.14

0 to 0.34

0 to 1

0 to 2.1

0 to 3.4

0 to 6.9

0 to 10

0 to 14

0 to 21

0 to 34

0 to 69

0 to 138

0 to 207

0 to 2

0 to 5

0 to 15

0 to 30

0 to 50

0 to 100

0 to 150

0 to 200

0 to 300

0 to 500

0 to 1000

0 to 2000

0 to 3000



PX329-002GV

PX329-005GV

PX329-050GV

IPX329-100GV

PX329-200GV

PX329-300GV

PX329-500GV

PX329-1KGV

PX329-2KGV

PX329-3KGV

175 PX329-015GV

175 PX329-030GV

175 PX329-150GV

300

175

175

175

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PX309 Series

100 mV Output 0-1 to 0-10,000 psi 0-70 mbar to 0-690 bar

Starts at

\$175

PX319-050GV, \$175, mini DIN connector included. shown smaller than actual size.

] NEW, LOW-PRESSURE RANGES HIGHLIGHTED

To Order *(Specify Model Number)*

PX309-002GV

PX309-005GV

PX309-015GV

PX309-030GV

PX309-050GV

PX309-100GV

PX309-150GV

PX309-200GV

PX309-300GV

PX309-500GV

PX309-1KGV

PX309-2KGV

PX309-3KGV

1.5 m CABLE MINI DIN WIST-LOCK PRICE CONNECTION PRICE CONNECTION PRICE **psiCONNECTION** ABSOLUTE PRESSURE PX319-005AV PX329-005AV 0 to 0.34 0 to 5 PX309-005AV \$300 \$300 \$300 0 to 15 PX309-015AV 195 PX319-015AV 215 PX329-015AV 235 0 to 1 195 PX319-030AV 215 PX329-030AV 0 to 2.1 0 to 30 PX309-030AV 235 0 to 3.4 0 to 50 PX309-050AV 195 PX319-050AV 215 PX329-050AV 235 PX319-100AV 215 PX329-100AV 235 0 to 6.9 0 to 100 PX309-100AV 195 PX319-200AV 0 to 200 PX309-200AV 195 215 PX329-200AV 235 0 to 14 PX309-300AV 195 PX319-300AV 215 PX329-300AV 235 0 to 21 0 to 300 **GAGE PRESSURE** PX319-001GV 0 to 0.07 PX309-001GV \$300 \$300 PX329-001GV \$300 0 to 1

300

300

175

175

175

175

175

175

175

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175

175

PX319-002GV

PX319-005GV

IPX319-015GV

PX319-030GV

PX319-050GV

PX319-100GV

PX319-200GV

PX319-300GV

PX319-500GV

PX319-1KGV

PX319-2KGV

PX319-3KGV

175 PX319-150GV



- Gage or Absolute **Pressure**
- ✓ Low Pressure to 1 psig
- Rugged Solid State Design
- ✓ All Stainless Steel Construction
- High Stability, Low Drift
- ✓ 0.25% Accuracy Typical

100 mV Output Specifications **Excitation:**

0 to 50 psig and All psia Ranges: 10 Vdc (ratiometric), (5 to 12 Vdc limits) 100 to 10,000 psig Ranges:

5 Vdc (ratiometric), (3 to 10 Vdc limits)

Output: 0 to 100 mV, except 2 psi = 40 mV and 1 psi = 20 mVAccuracy: ±0.25% typical; includes linearity, hysteresis and repeatability

Zero Offset: ±2% FSO; ±4% 1 and 2 psi ranges Span Setting: ±2% FSO; ±4% 1 and 2 psi ranges

Compensated Temperature: 0 to 50°C

(-18 to 122°F)

Thermal Zero and Span Effects (Over Compensated Range):

15 to 10,000 psi Ranges: ±2% FSO

5 psi Range: ±3% FSO 2 psi Range: ±4% FSO 1 psi Range: ±5% FSO

0 to 5000 PX309-5KGV 175 PX319-5KGV 175 PX329-5KGV 215 0 to 345 PX329-7.5KGV 0 to 517 0 to 7500 PX309-7.5KGV 175 PX319-7.5KGV 175 215 0 to 690 |0 to 10,000 | PX309-10KGV 175 PX319-10KGV 175 PX329-10KGV 215 Comes with certificate of conformance to specifications. Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering. Ordering Examples: PX309-100GV, 100 psi gage pressure transducer with 100 mV output @ 5 Vdc excitation and 1.5 m cable termination, \$175. PX319-015AV, 15 psi absolute pressure transducer with 100 mV output @ 10 Vdc excitation and Mini DIN termination, \$175. PX329-

3KGV, 3000 psi gage pressure transducer with 100 mV output @ 5 Vdc excitation and twist-lock termination, \$215. Mating connector sold separately, order PT06V-10-6S, \$26.50.

Consult Sales for OEM pricing.

ACCESSORIES

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

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