

ALL STAINLESS STEEL TRANSDUCER MULTIMEDIA COMPATIBILITY HIGH-PERFORMANCE SILICON TECHNOLOGY

**LARGE
INVENTORY
Fast Shipment!**

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

PX309 Series



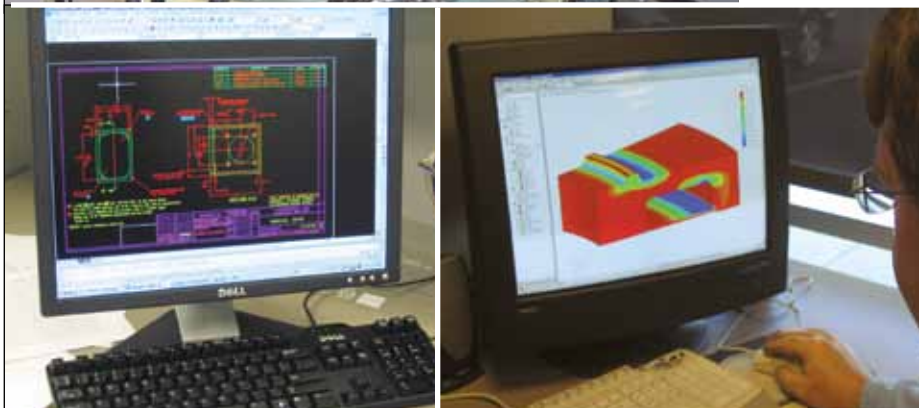
- ✓ 1, 2 & 5 psi Low Pressure Ranges!
- ✓ All Stainless Steel Construction
- ✓ Gage or Absolute Pressure
- ✓ Rugged Solid State Design
- ✓ High Stability, Low Drift
- ✓ 0.25% Static Accuracy
- ✓ IP 65 Protection Class



All models shown actual size.



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 you're an OEM, manufacturer, or end user.



**Now Available
with M12
Connector**

**Engineered from
1 to 10,000 psi.
Low Pressure Ranges:
1, 2 & 5 psi.**



MILLIVOLT OUTPUT
PRESSURE TRANSDUCERS
B

RUGGED, GENERAL PURPOSE TRANSDUCER

COMMON SPECIFICATIONS

mV Output Wiring			
Wiring	Cable	M12 and mini DIN	Twist-Lock
Excitation (+)	Red	Pin 1	Pin A
Output (+)	White	Pin 3	Pin C
Output (-)	Green	Pin 4	Pin D
Excitation (-)	Black	Pin 2	Pin B
Spare Vent			Pin E Pin F

5 Vdc Output Wiring			
Wiring	Cable	M12 and mini DIN	Twist-Lock
Excitation (+)	Red	Pin 1	Pin A
Excitation (-)	Black	Pin 2	Pin B
Output (+)	White	Pin 3	Pin C
N/C†		Pin 4	Pin D
Spare Vent			Pin E Pin F

mA Output Wiring			
Wiring	Cable	M12 and mini DIN	Twist-Lock
Supply (+)	Red	Pin 1	Pin A
Supply (-)	Black	Pin 2	Pin B
N/C†		Pin 3	Pin C
N/C†		Pin 4	Pin D
Spare Vent			Pin E Pin F

† N/C: Do not connect any wires to this pin.

SPECIFICATIONS

PX309 Series models below 100 psi use a high-accuracy silicon sensor protected by an oil-filled stainless steel diaphragm. 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: ¼-18 MNPT

Electrical Connections:

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

PX319: mini DIN connector with mating connector included

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

PX359: M12, 4-pin connector

Weight:

PX309: 154 g (5.4 oz)

PX319, PX329, PX359: 100 g (3.5 oz)

100 mV OUTPUT

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 mV

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

Compensated Temperature: 0 to 50°C (32 to 122°F)

Thermal Zero and Span Effects

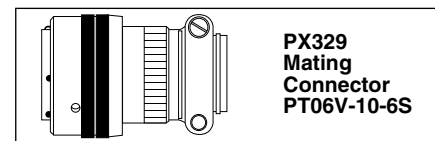
(Over Compensated Range):

15 to 10,000 psi Ranges: ±2% FSO

5 psi Range: ±3% FSO

2 psi Range: ±4% FSO

1 psi Range: ±5% FSO



5V OUTPUT

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

Output: 0 to 5 Vdc or 4 to 20 mA

Static Accuracy 5 to 10,000 psi: ±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

Compensated Temperature:

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

≤5 psi Range: 0 to 50°C (32 to 122°F)

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

Order a snubber to protect your pressure transducer!



PS-4G, shown actual size.

Snubbers protect sensors from fluid hammers/spikes.