

# HERMETICALLY SEALED GAGE TRANSDUCERS

## DESIGNED FOR THE HARSHTEST ENVIRONMENTS

100 mV 0 to 5 Vdc,  
0 to 10 Vdc, 4 to 20 mA Output  
0-100 to 0-5000 psi Sealed Gage  
6.9 to 345 bar

### PX409 Series Sealed Gage



Standard

The hermetically sealed gage version of the PX409 Series features all welded Stainless Steel construction, 316L wetted parts and glass to metal seals (GMS) at the electrical outlets with either twist lock connector (PX429) or solder pins (PX449) terminations. This ensures that the unit is hermetically sealed from external environments and the media. Designed for use on automotive and aircraft test platforms and anywhere environmental concerns demand the most durable characteristics. The sealed gage models have the PX409 Series micro machined silicon core that provides high accuracy, low drift and excellent long term stability in the harshest environments.



PX429-3.5KSGV

PX429 TWIST LOCK PINOUT			
PIN	mV	5/10V	mA
A	+ EXC	+ EXC	+ Supply
B	- EXC	Common	- Supply
C	+ SIG	+ Output	NC
D	- SIG	NC	NC
E	NC	NC	NC
F	NC	NC	NC



PX449-250SGV

PX449 GLASS-METAL SEAL PINOUT			
PIN*	mV	5/10V	mA
1	+ EXC	+ EXC	+ Supply
2	- EXC	- EXC	- Supply
3	+ SIG	+ Output	NC
4	- SIG	NC	NC
5	NC	NC	NC
6	NC	NC	NC

\* Pin # reference starts with 1st of 4 longer height pins in clockwise direction.

Stock Delivery  
for Most Ranges!  
Visit us online.

Glass-to-metal  
seal solder pins.

PX449-250SGV  
shown actual size.

### mV/V Output/Supply Specifications

**Output:** mV/V, 100 mV @ 10 Vdc  
(ratiometric 5 to 10 Vdc)

**Supply Voltage:** 10 Vdc

### General Specifications: Amplified Output /Supply Specifications

**0 to 5 Vdc:** 10 to 30 Vdc@10 mA

**0 to 10 Vdc:** 15 to 30 Vdc@10 mA

**4 to 20 mA Output/Supply  
Specifications**

**Output:** 4 to 20 mA

**Supply Voltage:** 9 to 30 Vdc

max loop res  $\Omega = (Vs-9) \times 50$

[9 to 20 Vdc above 105°C (229°F)]

**Input/Output Resistance:** 5000 $\Omega$   
 $\pm 20\%$  typical

**Accuracy (Combined Linearity,  
Hysteresis and Repeatability):**  
 $\pm 0.08\%$  BSL max

**Zero Balance:**  $\pm 0.5\%$  FS typical  
1% max (1% typical, 2% max  
for 1 psi and below)

**Span Setting:**  $\pm 0.5\%$  FS typical 1% max  
(1% typical, 2% max for 1 psi and below);  
calibrated in vertical direction with  
fitting down

**Shock:** 50 g, 11 mS half sine, vertical  
and horizontal axis

**Vibration:** 5-2000-5 Hz, 30 minute cycle,  
Curve L, Mil-Spec 810 figure 514-2-2,  
vertical and horizontal axis

### Ordering Options Description

<b>Electrical Termination</b>	PX429 for Twist-Lock Termination (MIL-26482-I 10-6P) PX449 for Hermetic Pin Termination
<b>Range</b> <i>(Examples of range per unit per type. Please View All Models for all available ranges per pressure type. Explore Configurator for Custom Ranges)</i>	100 for 0 to 100 psi 500 for 0 to 500 psi 750 for Imperial Pressure 0 to 750 psi 1.0K for 0 to 1,000 psi 3.5K for 0 to 3,500 psi 5.0K for 0 to 5,000 psi
<b>Pressure Type</b>	SG for Sealed Gage Pressure Ranges 0 to 5,000 psi
<b>Output Signal</b>	-I for 4 to 20 mA Output V for Ratiometric 10 mV/V Output -5V for Amplified 0 to 5 Vdc Output -10V for Amplified 0 to 10 Vdc Output

Comes complete with 5-point NIST traceable calibration. Visit us online for compatible meters.  
**Ordering Examples:** PX449-250SGV, 10 mV/V output, 250 psi sealed gage pressure range,  
glass to metal sealed pin termination.

PX449-250SG5V, 0 to 5 Vdc output, 250 psi sealed gage pressure range, glass to metal  
sealed pin termination.

PX449-250SGI, 4 to 20 mA output, 250 psi sealed gage pressure range, glass to metal  
sealed pin termination.