

# HERMETICALLY SEALED GAGE RANGES

## DESIGNED FOR THE HARSHTEST ENVIRONMENTS



4 to 20 mA Output  
0-100 to 0-5000 psi Sealed Gage  
6.9 to 0-345 bar

**Stock Delivery for Most Ranges!**

### PX409 Series Sealed Gage



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.



PX429-3.5KSGL

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



PX449-250SGI

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.

### 4 to 20 mA Specifications

**Output:** 4 to 20 mA  
**Supply Voltage:** 9 to 30 Vdc  
maximum loop res  $\Omega = (V_s - 9) \times 50$   
[9 to 20 Vdc above 105°C (229°F)]  
**Accuracy (Combined Linearity, Hysteresis and Repeatability):**  
 $\pm 0.08\%$  BSL maximum  
**Zero Balance:**  $\pm 0.5\%$  full scale typical  
1% maximum (1% typical, 2% maximum for 1 psi and below)  
**Span Setting:**  $\pm 0.5\%$  full scale typical  
1% maximum (1% typical, 2% maximum 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  
**Operating Temperature Range:**  
-45 to 115°C (-49 to 240°F)



Sealed twist-lock style.

Glass-to-metal seal solder pins.

PX449-250SGI, shown actual size.

Metric thread adaptors available.

PX429-3.5KSGL, shown actual size.

### Compensated Temperature:

Ranges >5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤ 5 psi: -17 to 85°C (0 to 185°F)

### Thermal Effects Zero

#### (Over Compensated Range):

Ranges >5 psi:  $\pm 0.5\%$  span

Ranges ≤ 5 psi:  $\pm 1.0\%$  span

### Thermal Effects Span

#### (Over Compensated Range):

Ranges >5 psi:  $\pm 0.5\%$  span

Ranges ≤ 5 psi:  $\pm 1.0\%$  span

### To Order

RANGE		TWIST-LOCK TERMINATION	GLASS TO METAL SEAL PINS
psi	bar		
<b>4 to 20 mA OUTPUT, SEALED GAGE PRESSURE RANGES</b>			
100	6.9	PX429-100SGI	PX449-100SGI
150	10.3	PX429-150SGI	PX449-150SGI
250	17.2	PX429-250SGI	PX449-250SGI
500	34.5	PX429-500SGI	PX449-500SGI
750	51.7	PX429-750SGI	PX449-750SGI
1000	69	PX429-1.0KSGL	PX449-1.0KSGL
1500	103	PX429-1.5KSGL	PX449-1.5KSGL
2500	172	PX429-2.5KSGL	PX449-2.5KSGL
3500	241	PX429-3.5KSGL	PX449-3.5KSGL
5000	345	PX429-5.0KSGL	PX449-5.0KSGL

### ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for PX429 (sold separately)

Comes complete with 5-point NIST traceable calibration. Visit us online for compatible meters.

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

PX429-1.0KSGL, 4 to 20 mA output, 1000 psi sealed gage pressure range, hermetically sealed twist-lock termination, PT06F10-6S, mating twist-lock connector (sold separately) and DP25B-S, 4-digit meter.