

HERMETICALLY SEALED GAGE TRANSDUCERS

DESIGNED FOR THE HARSHTEST ENVIRONMENTS

100 mV Output
0-100 to 0-5000 psi Sealed Gage
6.9 to 345 bar

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.



PX429-3.5KSGV

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 Specifications

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

Supply Voltage: 10 Vdc

Input/Output Resistance: 5000 Ω ±20% typical

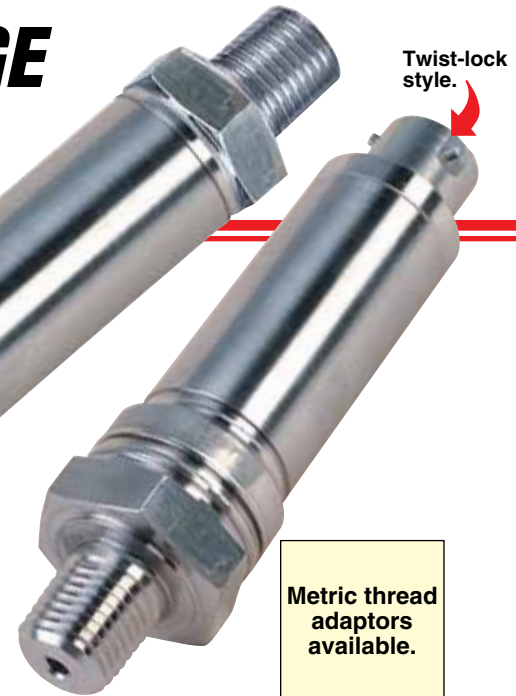
Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL max

Zero Balance: ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below)

Span Setting: ±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



Twist-lock style.

Metric thread adaptors available.

PX429-3.5KSGV shown actual size.

Operating Temperature Range: -45 to 121°C (-49 to 250°F)

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: ±0.5% span
Ranges ≤5 psi: ±1.0% span

Thermal Effects Span (Over Compensated Range):

Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span

To Order

RANGE		TWIST-LOCK TERMINATION	GLASS TO METAL SEAL PINS
psi	bar		
10 mV/V OUTPUT, SEALED GAGE PRESSURE RANGES			
100	6.9	PX429-100SGV	PX449-100SGV
150	10.3	PX429-150SGV	PX449-150SGV
250	17.2	PX429-250SGV	PX449-250SGV
500	34.5	PX429-500SGV	PX449-500SGV
750	51.7	PX429-750SGV	PX449-750SGV
1000	69	PX429-1.0KSGV	PX449-1.0KSGV
1500	103	PX429-1.5KSGV	PX449-1.5KSGV
2500	172	PX429-2.5KSGV	PX449-2.5KSGV
3500	241	PX429-3.5KSGV	PX449-3.5KSGV
5000	345	PX429-5.0KSGV	PX449-5.0KSGV

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for PX429 series transducers

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.

PX429-1.0KSGV, 10 mV/V 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.

HERMETICALLY SEALED GAGE TRANSDUCERS DESIGNED FOR THE HARSHTEST ENVIRONMENTS

0 to 5 and 0 to 10 Vdc Output
0-100 to 0-5000 psi Sealed Gage
6.9 to 0-345 bar

PX409 Series Sealed Gage



Standard

Micro-Machined Silicon

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.



PX429-3.5KSG5V

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



PX449-250SG5V

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.

PX449-250SG5V
shown actual size.

Amplified Voltage Output Specifications

Output/Supply
0 to 5 Vdc: 10 to 30 Vdc@ 10 mA
0 to 10 Vdc: 15 to 30 Vdc@ 10 mA

Accuracy (Combined Linearity,
Hysteresis and Repeatability):
±0.08% BSL max

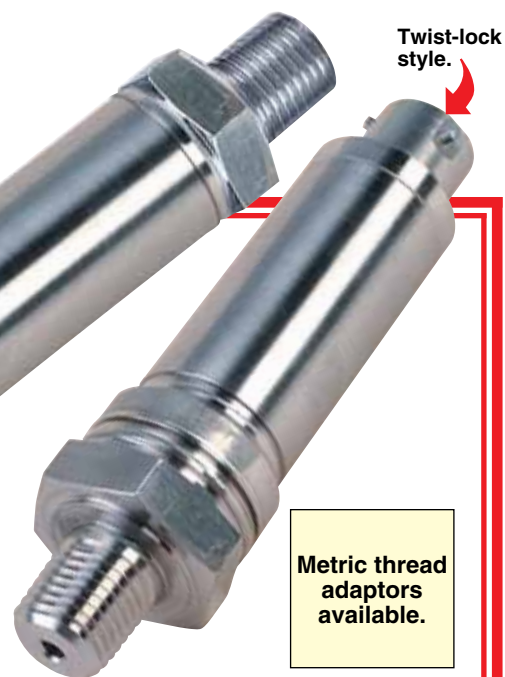
Zero Balance: ±0.5% FS typical 1% max
(1% typical, 2% max for 1 psi and below)

Span Setting: ±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

Operating Temperature Range:
-45 to 115°C (-49 to 240°F)



Twist-lock
style.

Metric thread
adaptors
available.

PX429-3.5KSG5V
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: ±0.5% span
Ranges ≤5 psi: ±1.0% span

Thermal Effects Span
(Over Compensated Range):
Ranges >5 psi: ±0.5% spa
Ranges ≤5 psi: ±1.0% span

To Order

RANGE		TWIST-LOCK TERMINATION	GLASS TO METAL SEAL PINS
psi	bar		
0 to 5 and 0 to 10 Vdc OUTPUT, SEALED GAGE PRESSURE RANGES			
100	6.9	PX429-100SG5V	PX449-100SG10V
150	10.3	PX429-150SG5V	PX449-150SG10V
250	17.2	PX429-250SG5V	PX449-250SG10V
500	34.5	PX429-500SG5V	PX449-500SG10V
750	51.7	PX429-750SG5V	PX449-750SG10V
1000	69	PX429-1.0KSG5V	PX449-1.0KSG10V
1500	103	PX429-1.5KSG5V	PX449-1.5KSG10V
2500	172	PX429-2.5KSG5V	PX449-2.5KSG10V
3500	241	PX429-3.5KSG5V	PX449-3.5KSG10V
5000	345	PX429-5.0KSG5V	PX449-5.0KSG10V

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.

Note: To order 0 to 10 Vdc output, change "5V" in model number to "10V", no extra charge.

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

PX429-1.0KSG10V, 0 to 10 Vdc 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.

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

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.



PX429-3.5KSGI

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.

Stock Delivery for Most Ranges! Visit us online.

Glass-to-metal seal solder pins.

PX449-250SGI shown actual size.

Twist-lock style.

4 to 20 mA 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)]

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

Operating Temperature Range:
-45 to 115°C (-49 to 240°F)



Metric thread adaptors available.

PX429-3.5KSGI 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		
4 to 20 mA OUTPUT, SEALED GAGE PRESSURE RANGES			
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	PX429-1.0KSGI	PX449-1.0KSGI
1500	103	PX429-1.5KSGI	PX449-1.5KSGI
2500	172	PX429-2.5KSGI	PX449-2.5KSGI
3500	241	PX429-3.5KSGI	PX449-3.5KSGI
5000	345	PX429-5.0KSGI	PX449-5.0KSGI

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.

PX429-1.0KSGI, 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.