

HERMETICALLY SEALED OMEGA™ GAGE TRANSDUCERS DESIGNED FOR THE HARSHTEST ENVIRONMENTS

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

PX409 Series Sealed Gage Models



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.



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.

PX449-250SG5V, shown actual size.

Glass-to-metal-seal solder pins.

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.

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 maximum

Zero Balance: ±0.5% full scale typical
1% maximum (1% typical, 2% maximum for 1 psi and below)

Span Setting: ±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)

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

Dimensions: Available online

Stock Delivery for Most Ranges!

Twist-lock style.

PX429-3.5KSG5V, shown actual size.

To Order

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

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.