

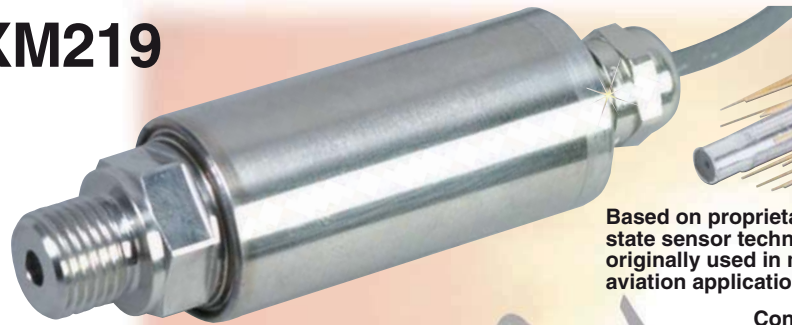


Rugged Solid State Transducers

with Amplified Outputs Gauge, Absolute, and Compound Pressures

PXM209/PXM219 Series

0-1 to 0-20 bar



PXM209-006G10V, cable style, shown smaller than actual size.

EXCLUSIVE!

Based on proprietary solid state sensor technology originally used in military aviation applications

Connector included



PXM219-006G10V, connector style, shown actual size.

Metal/Nitrile washer included



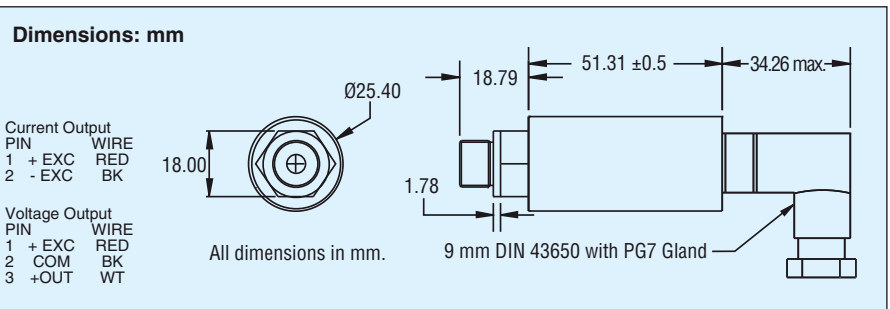
- ✓ **Stainless Steel Fitting and Body**
- ✓ **0 to 10 Vdc, 4 to 20 mA Outputs**
- ✓ **Solid State Media Isolation Suitable for Use with Most Industrial Fluids and Oils**
- ✓ **Broad Temperature-Compensated Range of -20 to 80°C**
- ✓ **Rugged High Shock and Vibration Design for Tough OEM Applications**
- ✓ **100,000 Hr MTBF Typical**

OMEGA's PXM209 Series pressure transducers are accurate, highly reliable, and suitable for harsh industrial equipment applications. Their high performance is a result of the full bridge construction, which uses a micro-machined diffused silicon diaphragm and unique thin-film media with dielectric isolation barriers. The proprietary ASIC provides a wide temperature compensation, including tight tolerances for zero balance and span.

SPECIFICATIONS

0 to 10 Vdc Output

Excitation: 24 Vdc @ 15 mA (12 to 35 Vdc)
Output: 0 to 10 Vdc (3 wire)
Zero Balance: 0 Vdc \pm 75 mV
Span: 10 Vdc \pm 75 mV



4 to 20 mA Output

Excitation: 24 Vdc (7 to 35 Vdc) reverse polarity protected
Output: 4 to 20 mA (2 wire)
Zero Balance: \pm 2% FS
Span: \pm 1% FS

Max Loop Resistance:
 50 x (supply voltage - 10) ω

Common Specifications

Accuracy: 0.25% FS (including linearity, hysteresis and repeatability)
Operating Temperature: -54 to 121°C
Compensated Temperature: -20 to 80°C
Thermal Effects: 0.04% FS/°C
Proof Pressure: 150%
Burst Pressure: 300% range max

Response Time: 2 ms typical

Vibration Sensitivity: At 20 g peak sinusoidal vibration from 10 Hz to 2000 Hz (12 mm D.A.), the output shall not exceed 0.04% FS/g for 1 bar range to 0.005% FS/g for 7 bar and above

Natural Frequency: >35 kHz for 7 bar range

Gauge Type: Diffused silicon strain gauges

Wetted Parts: 316 SS
Pressure Port: G 1/4 A male

Electrical Connections:

PXM209: 1 m shielded 4-conductor cable

PXM219: DIN 43650 plug connector supplied

Weight: 128 g



Rugged Solid State Transducers



ALL MODELS AVAILABLE FOR FAST DELIVERY!



Compatible with the PXM209/219 Series, the DPi32 Process Meter is also a PID controller with an IP65-rated front bezel.



Pack of 5 bonded seals

A050260-0250-005.



Order a snubber to protect your pressure transducer!

PS-4G-MG, shown actual size.

ACCESSORIES

MODEL	DESCRIPTION
PS-4G-MG	Pressure snubber for gaseous media
PS-4E-MG	Pressure snubber for water and light oils
PS-4D-MG	Pressure snubber for dense liquids (motor oil)
TX4-100	30 m of 4-conductor shielded wire

To Order (Specify PXM209 for Cable or PXM219 for DIN Connector)

bar	CABLE STYLE	CONN. STYLE	COMPATIBLE METERS*
GAUGE PRESSURE RANGES (bar) WITH 0 to 10 Vdc OUTPUT			
0 to 1	PXM209-001G10V	PXM219-001G10V	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60G10V	PXM219-1.60G10V	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50G10V	PXM219-2.50G10V	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004G10V	PXM219-004G10V	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006G10V	PXM219-006G10V	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010G10V	PXM219-010G10V	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016G10V	PXM219-016G10V	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020G10V	PXM219-020G10V	DPi8, DP41-E, DP25B-E
GAUGE PRESSURE RANGES (bar) WITH 4 to 20 mA OUTPUT			
0 to 1	PXM209-001GI	PXM219-001GI	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60GI	PXM219-1.60GI	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50GI	PXM219-2.50GI	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004GI	PXM219-004GI	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006GI	PXM219-006GI	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010GI	PXM219-010GI	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016GI	PXM219-016GI	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020GI	PXM219-020GI	DPi8, DP41-E, DP25B-E
ABSOLUTE PRESSURE RANGES (bar) WITH 0 to 10 Vdc OUTPUT			
0 to 1	PXM209-001A10V	PXM219-001A10V	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60A10V	PXM219-1.60A10V	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50A10V	PXM219-2.50A10V	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004A10V	PXM219-004A10V	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006A10V	PXM219-006A10V	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010A10V	PXM219-010A10V	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016A10V	PXM219-016A10V	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020A10V	PXM219-020A10V	DPi8, DP41-E, DP25B-E
ABSOLUTE PRESSURE RANGES (bar) WITH 4 to 20 mA OUTPUT			
0 to 1	PXM209-001AI	PXM219-001AI	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60AI	PXM219-1.60AI	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50AI	PXM219-2.50AI	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004AI	PXM219-004AI	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006AI	PXM219-006AI	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010AI	PXM219-010AI	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016AI	PXM219-016AI	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020AI	PXM219-020AI	DPi8, DP41-E, DP25B-E
VACUUM AND COMPOUND RANGES (bar) WITH 0 to 10 Vdc OUTPUT			
VAC to 0	PXM209-VAC000G10V	PXM219-VAC000G10V	DPi8, DP41-E, DP25B-E
VAC to 1	PXM209-VAC001G10V	PXM219-VAC001G10V	DPi8, DP41-E, DP25B-E
VAC to 3	PXM209-VAC003G10V	PXM219-VAC003G10V	DPi8, DP41-E, DP25B-E
VAC to 6	PXM209-VAC006G10V	PXM219-VAC006G10V	DPi8, DP41-E, DP25B-E
VAC to 9	PXM209-VAC009G10V	PXM219-VAC009G10V	DPi8, DP41-E, DP25B-E
VACUUM AND COMPOUND RANGES (bar) WITH 4 to 20 mA OUTPUT			
VAC to 0	PXM209-VAC000GI	PXM219-VAC000GI	DPi8, DP41-E, DP25B-E
VAC to 1	PXM209-VAC001GI	PXM219-VAC001GI	DPi8, DP41-E, DP25B-E
VAC to 3	PXM209-VAC003GI	PXM219-VAC003GI	DPi8, DP41-E, DP25B-E
VAC to 6	PXM209-VAC006GI	PXM219-VAC006GI	DPi8, DP41-E, DP25B-E
VAC to 9	PXM209-VAC009GI	PXM219-VAC009GI	DPi8, DP41-E, DP25B-E

Comes with 5-point calibration.

* See page 80 for compatible meters.

Note: The voltage output versions of the vacuum and compound sensors generate 0 Vdc at vacuum and 10 Vdc at full scale. The current versions generate 4 mA at vacuum and 20 mA at full scale.

Ordering Example: PXM219-001A10V, 0 to 10 Vdc output transducer for absolute pressure with a 0 to 1 bar range, PS-4G-MG snubber and TX4-100 shielded wire.



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