

Rugged Solid State Transducers

with Amplified Outputs Gauge, Absolute, and Compound Pressures

PXM209/PXM219 Series

0-1 to 0-20 bar

All Models
£115



- ✓ **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 ±75 mV
Span: 10 Vdc ±75 mV

PXM209-006G10V, cable style, £131, shown smaller than actual size.

PXM219-006G10V, connector style, £131, shown actual size.

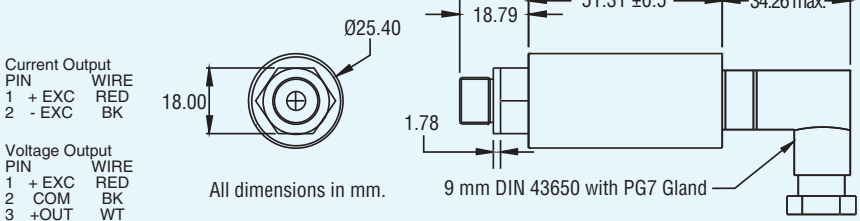
EXCLUSIVE!

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

Connector included

Metal/Nitrile washer included

Dimensions: mm



4 to 20 mA Output

Excitation: 24 Vdc (7 to 35 Vdc) reverse polarity protected
Output: 4 to 20 mA (2 wire)
Zero Balance: ±2% FS
Span: ±1% FS
Max Loop Resistance: 50 x (supply voltage - 10) W
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

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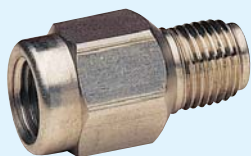
Compatible with the PXM209/219 Series, the DPi32 Process Meter is also a PID controller with an IP65-rated front bezel. Price: £101.

Pack of 5 bonded seals



A050260-0250-005, £20

Order a snubber to protect your pressure transducer!



PS-4G-MG, £6.70, shown actual size.

ACCESSORIES

MODEL	PRICE	DESCRIPTION
PS-4G-MG	£6.70	Pressure snubber for gaseous media
PS-4E-MG	6.70	Pressure snubber for water and light oils
PS-4D-MG	6.70	Pressure snubber for dense liquids (motor oil)
TX4-100	19.10	30 m of 4-conductor shielded wire

Five-Point Calibration Traceable to International Standards Laboratories!

ALL MODELS AVAILABLE FOR FAST DELIVERY!

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

bar	CABLE STYLE	PRICE	CONN. STYLE	PRICE	COMPATIBLE METERS*
GAUGE PRESSURE RANGES (bar) WITH 0 to 10 Vdc OUTPUT					
0 to 1	PXM209-001G10V	£115	PXM219-001G10V	£115	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60G10V	115	PXM219-1.60G10V	115	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50G10V	115	PXM219-2.50G10V	115	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004G10V	115	PXM219-004G10V	115	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006G10V	115	PXM219-006G10V	115	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010G10V	115	PXM219-010G10V	115	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016G10V	115	PXM219-016G10V	115	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020G10V	115	PXM219-020G10V	115	DPi8, DP41-E, DP25B-E
GAUGE PRESSURE RANGES (bar) WITH 4 to 20 mA OUTPUT					
0 to 1	PXM209-001GI	£115	PXM219-001GI	£115	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60GI	115	PXM219-1.60GI	115	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50GI	115	PXM219-2.50GI	115	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004GI	115	PXM219-004GI	115	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006GI	115	PXM219-006GI	115	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010GI	115	PXM219-010GI	115	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016GI	115	PXM219-016GI	115	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020GI	115	PXM219-020GI	115	DPi8, DP41-E, DP25B-E
ABSOLUTE PRESSURE RANGES (bar) WITH 0 to 10 Vdc OUTPUT					
0 to 1	PXM209-001A10V	£115	PXM219-001A10V	£115	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60A10V	115	PXM219-1.60A10V	115	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50A10V	115	PXM219-2.50A10V	115	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004A10V	115	PXM219-004A10V	115	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006A10V	115	PXM219-006A10V	115	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010A10V	115	PXM219-010A10V	115	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016A10V	115	PXM219-016A10V	115	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020A10V	115	PXM219-020A10V	115	DPi8, DP41-E, DP25B-E
ABSOLUTE PRESSURE RANGES (bar) WITH 4 to 20 mA OUTPUT					
0 to 1	PXM209-001AI	£115	PXM219-001AI	£115	DPi8, DP41-E, DP25B-E
0 to 1.6	PXM209-1.60AI	115	PXM219-1.60AI	115	DPi8, DP41-E, DP25B-E
0 to 2.5	PXM209-2.50AI	115	PXM219-2.50AI	115	DPi8, DP41-E, DP25B-E
0 to 4	PXM209-004AI	115	PXM219-004AI	115	DPi8, DP41-E, DP25B-E
0 to 6	PXM209-006AI	115	PXM219-006AI	115	DPi8, DP41-E, DP25B-E
0 to 10	PXM209-010AI	115	PXM219-010AI	115	DPi8, DP41-E, DP25B-E
0 to 16	PXM209-016AI	115	PXM219-016AI	115	DPi8, DP41-E, DP25B-E
0 to 20	PXM209-020AI	115	PXM219-020AI	115	DPi8, DP41-E, DP25B-E
VACUUM AND COMPOUND RANGES (bar) WITH 0 to 10 Vdc OUTPUT					
VAC to 0	PXM209-VAC000G10V	£115	PXM219-VAC000G10V	£115	DPi8, DP41-E, DP25B-E
VAC to 1	PXM209-VAC001G10V	115	PXM219-VAC001G10V	115	DPi8, DP41-E, DP25B-E
VAC to 3	PXM209-VAC003G10V	115	PXM219-VAC003G10V	115	DPi8, DP41-E, DP25B-E
VAC to 6	PXM209-VAC006G10V	115	PXM219-VAC006G10V	115	DPi8, DP41-E, DP25B-E
VAC to 9	PXM209-VAC009G10V	115	PXM219-VAC009G10V	115	DPi8, DP41-E, DP25B-E
VACUUM AND COMPOUND RANGES (bar) WITH 4 to 20 mA OUTPUT					
VAC to 0	PXM209-VAC000GI	£115	PXM219-VAC000GI	£115	DPi8, DP41-E, DP25B-E
VAC to 1	PXM209-VAC001GI	115	PXM219-VAC001GI	115	DPi8, DP41-E, DP25B-E
VAC to 3	PXM209-VAC003GI	115	PXM219-VAC003GI	115	DPi8, DP41-E, DP25B-E
VAC to 6	PXM209-VAC006GI	115	PXM219-VAC006GI	115	DPi8, DP41-E, DP25B-E
VAC to 9	PXM209-VAC009GI	115	PXM219-VAC009GI	115	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, £115 + 6.70 + 19.10 = **£140.80.**