

SILICON ON SAPPHIRE PRESSURE TRANSMITTER WITH OPTIONAL LOOP POWERED PRESSURE MONITOR

PXM4200 Series

Vacuum to 1000 BAR
4 to 20 mA Output

- ✓ Silicon on Sapphire Construction
- ✓ High Operating Temperature
- ✓ Titanium Wetted Parts
- ✓ 0.25% Accuracy
- ✓ Optional Plug-On Display with Available Set-point
- ✓ IP65 Enclosure



PXM4200-100BGI connector (not shown) is included.

PXM4200-160BGI, shown smaller than actual size with Plug-on Loop Powered Pressure Monitor PM1001, attached (shipped as 2 pieces).

OMEGA's PXM4200 Series Transmitters bring state-of-the-art Silicon-on-Sapphire (SOS) sensor technology to the industrial arena. SOS construction uses very stable solid state silicon strain gages on a Sapphire carrier which is glass bonded to a titanium diaphragm. This combination provides a very durable transducer which has excellent stability and corrosion resistance over a wide temperature range. A loop powered 3 1/2 digit (-1999 to 1999) plug-on display adds versatility to the PXM4200 by providing local display plus an available open collector set-point with 60 mA capability.

SPECIFICATIONS

Excitation: 13 to 36 Vdc, with PM1000

18 to 36 Vdc reverse polarity protected

Load Driving Capacity: 1150Ω @

36 Vdc, R max = (Vs-13)/20 with

PM1000 Rmax = (Vs-18)/20

Output: 4 to 20 mA (2-Wire) with zero

and span adjustments

Accuracy: ±0.25% FS includes

linearity, and hysteresis

Repeatability: ±0.1% FS

Long Term Stability (1yr): ±0.2% FS

Media Temperature:

-50 to 120°C (-58 to 248°F)

Ambient Temperature:

-40 to 80°C (-40 to 175°F)

Thermal Zero Effect: <±0.016% FS/°F

Thermal Span Effect: <±0.016% FS/°F

Humidity: 95% RH non-condensing

Maximum Overpressure: 200% FS

Sensor: Silicon on Sapphire

Wetted Parts: Titanium

Case Material: Stainless Steel, IP65

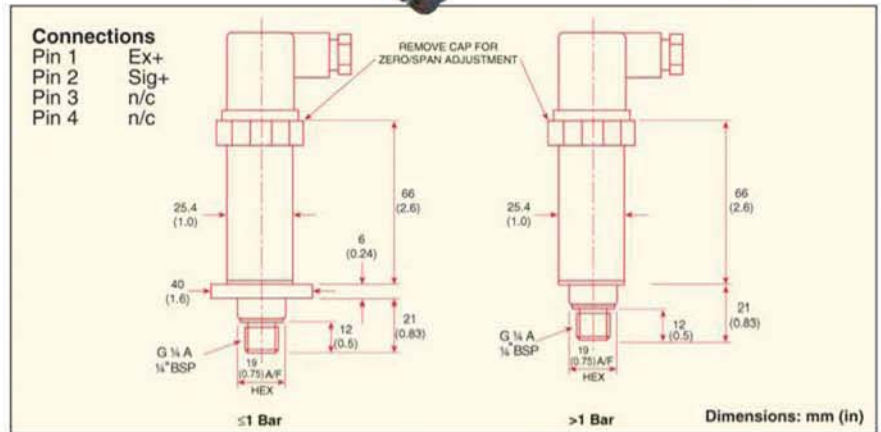
Pressure Port: G 1/4 male (1/2" BSP)

Electrical Connection: Din 43650

plug mating connector supplied

Response Time: 1ms

Weight: 90 g (3.2 oz)



ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

RANGE (bar)	MODEL NO.	PRICE	COMPATIBLE METERS*
0 to 1 bar Vac	PXM4200-VACGI		DP41-B, DP25B-E, PM1000
0 to 500 mbarg	PXM4200-500BGI		DP41-B, DP25B-E, PM1000
0 to 1	PXM4200-001BGI		DP41-B, DP25B-E, PM1000
0 to 1.6	PXM4200-1.6BGI		DP41-B, DP25B-E, PM1000
0 to 2.5	PXM4200-2.5BGI		DP41-B, DP25B-E, PM1000
0 to 4	PXM4200-004BGI		DP41-B, DP25B-E, PM1000
0 to 6	PXM4200-006BGI		DP41-B, DP25B-E, PM1000
0 to 10	PXM4200-010BGI		DP41-B, DP25B-E, PM1000
0 to 16	PXM4200-016BGI		DP41-B, DP25B-E, PM1000
0 to 25	PXM4200-025BGI		DP41-B, DP25B-E, PM1000
0 to 40	PXM4200-040BGI		DP41-B, DP25B-E, PM1000
0 to 60	PXM4200-060BGI		DP41-B, DP25B-E, PM1000
0 to 100	PXM4200-100BGI		DP41-B, DP25B-E, PM1000
0 to 160	PXM4200-160BGI		DP41-B, DP25B-E, PM1000
0 to 250	PXM4200-250BGI		DP41-B, DP25B-E, DP24-E
0 to 400	PXM4200-400BGI		DP41-B, DP25B-E, DP24-E
0 to 600	PXM4200-600BGI		DP41-B, DP25B-E, DP24-E
0 to 1000	PXM4200-1KBGI		DP41-B, DP25B-E, DP24-E
PRESSURE MONITOR			
	PM1000		Plug-on display
	PM1001		Plug-on display with single set-point

* See Section D for compatible meters.

Comes with complete operator's manual.

Ordering Example: PXM4200-100BGI, 0 to 100 barg range with a 4 to 20 mA current output, and PM1001 display with set-point.