

# 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

From  
**£145**  
PXM4200



PXM4200-100BGI  
£145 connector  
(not shown)  
is included.

PXM4200-160BGI, £145  
shown smaller than  
actual size with Plug-  
on Loop Powered  
Pressure Monitor  
PM1001, £105  
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 3½ 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

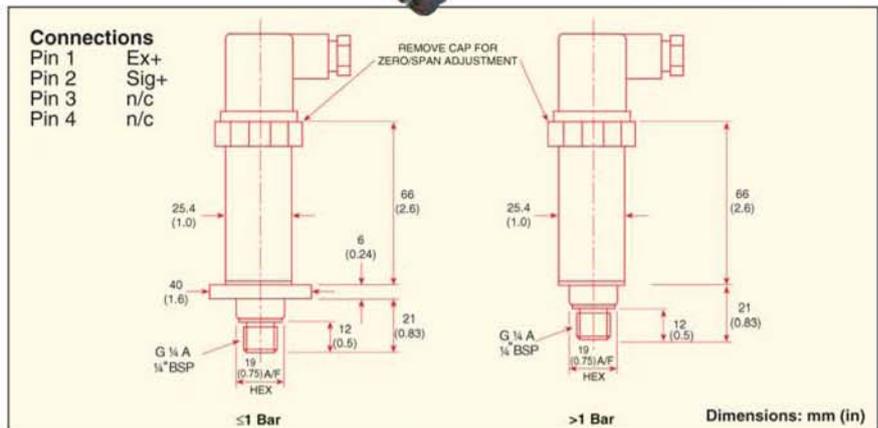
**Pressure Port:** G ¼ male (¼" BSP)

**Electrical Connection:** Din 43650

plug mating connector supplied

**Response Time:** 10 ms

**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	£198	DP41-B, DP25B-E, PM1000
0 to 500 mbarg	PXM4200-500MBGI	198	DP41-B, DP25B-E, PM1000
0 to 1	PXM4200-001BGI	198	DP41-B, DP25B-E, PM1000
0 to 1.6	PXM4200-1.6BGI	145	DP41-B, DP25B-E, PM1000
0 to 2.5	PXM4200-2.5BGI	145	DP41-B, DP25B-E, PM1000
0 to 4	PXM4200-004BGI	145	DP41-B, DP25B-E, PM1000
0 to 6	PXM4200-006BGI	145	DP41-B, DP25B-E, PM1000
0 to 10	PXM4200-010BGI	145	DP41-B, DP25B-E, PM1000
0 to 16	PXM4200-016BGI	145	DP41-B, DP25B-E, PM1000
0 to 25	PXM4200-025BGI	145	DP41-B, DP25B-E, PM1000
0 to 40	PXM4200-040BGI	145	DP41-B, DP25B-E, PM1000
0 to 60	PXM4200-060BGI	145	DP41-B, DP25B-E, PM1000
0 to 100	PXM4200-100BGI	145	DP41-B, DP25B-E, PM1000
0 to 160	PXM4200-160BGI	145	DP41-B, DP25B-E, PM1000
0 to 250	PXM4200-250BGI	145	DP41-B, DP25B-E, DP24-E
0 to 400	PXM4200-400BGI	145	DP41-B, DP25B-E, DP24-E
0 to 600	PXM4200-600BGI	145	DP41-B, DP25B-E, DP24-E
0 to 1000	PXM4200-1KBGI	145	DP41-B, DP25B-E, DP24-E
PRESSURE MONITOR			
	PM1000	80	Plug-on display
	PM1001	105	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, £198 + 105 = £303

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