

# SILICON ON SAPPHIRE PRESSURE TRANSMITTER WITH OPTIONAL LOOP POWERED PRESSURE MONITOR

## PX4200 Series Vacuum to 6000 psi 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

**\$325**  
All Models



PX4200-100GI, \$325, connector (not shown) is included.

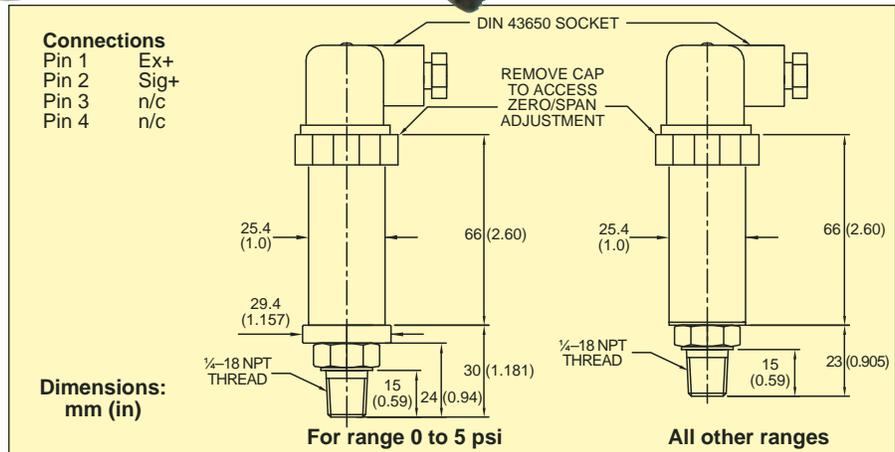


PX4200-150GI, \$325, shown smaller than actual size with Plug-on Loop Powered Pressure Monitor PM1001, \$155, attached (shipped as 2 pieces).

OMEGA's PX4200 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 PX4200 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:** 1/4 NPT male  
**Electrical Connection:** Din 43650 plug mating connector supplied  
**Response Time:** 10 ms  
**Weight:** 90 g (3.2 oz)



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### To Order (Specify Model Number)

RANGE (psig)	MODEL NO.	PRICE	COMPATIBLE METERS*
30 inHg to 0	PX4200-30VACI	\$325	DP41-E, DP25B-E, PM1000
0 inHg to 30	PX4200-30VACRI	325	DP41-E, DP25B-E, PM1000
0 to 5	PX4200-005GI	325	DP41-E, DP25B-E, PM1000
0 to 10	PX4200-010GI	325	DP41-E, DP25B-E, PM1000
0 to 15	PX4200-015GI	325	DP41-E, DP25B-E, PM1000
0 to 30	PX4200-030GI	325	DP41-E, DP25B-E, PM1000
0 to 60	PX4200-060GI	325	DP41-E, DP25B-E, PM1000
0 to 100	PX4200-100GI	325	DP41-E, DP25B-E, PM1000
0 to 150	PX4200-150GI	325	DP41-E, DP25B-E, PM1000
0 to 200	PX4200-200GI	325	DP41-E, DP25B-E, PM1000
0 to 300	PX4200-300GI	325	DP41-E, DP25B-E, PM1000
0 to 600	PX4200-600GI	325	DP41-E, DP25B-E, PM1000
0 to 1K	PX4200-1KGI	325	DP41-E, DP25B-E, PM1000
0 to 1.5K	PX4200-1.5KGI	325	DP41-E, DP25B-E, PM1000
0 to 3K	PX4200-3KGI	325	DP41-E, DP25B-E, DP24-E
0 to 6K	PX4200-6KGI	325	DP41-E, DP25B-E, DP24-E
<b>PRESSURE MONITOR</b>			
	PM1000	\$140	Plug-on display
	PM1001	170	Plug-on display with single set-point

\* See Section D for compatible meters.  
Comes with complete operator's manual.  
**Ordering Example:** PX4200-100GI, 0 to 100 psig range with a 4 to 20 mA current output, and PM1001 display with set-point, \$325 + 170 = \$495.

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