

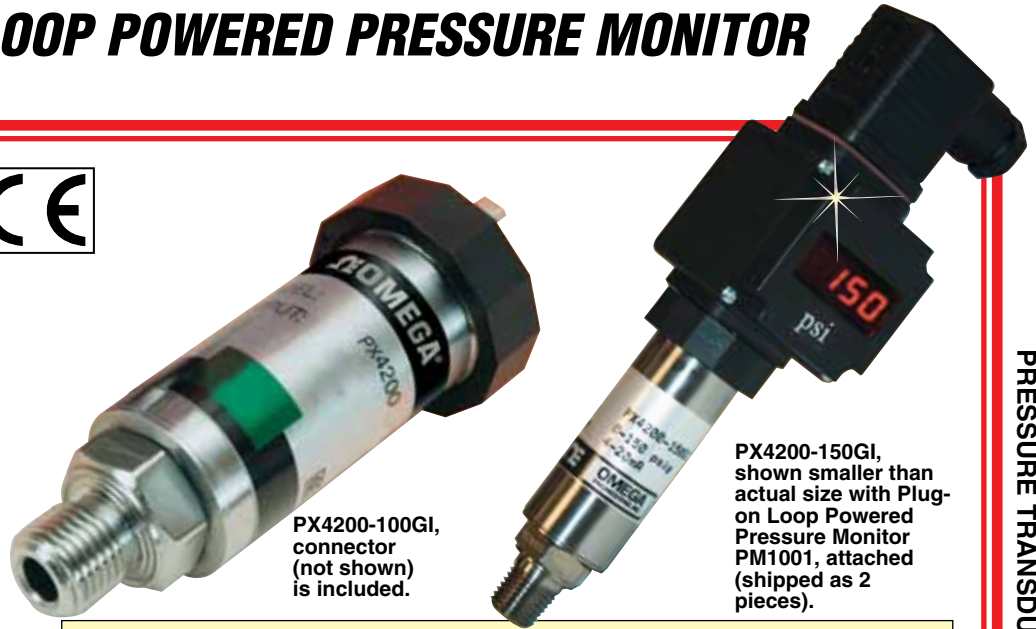
SILICON ON SAPPHIRE PRESSURE TRANSMITTER WITH OPTIONAL LOOP POWERED PRESSURE MONITOR

Vacuum to 6000 psi
4 to 20 mA Output
PX4200 Series



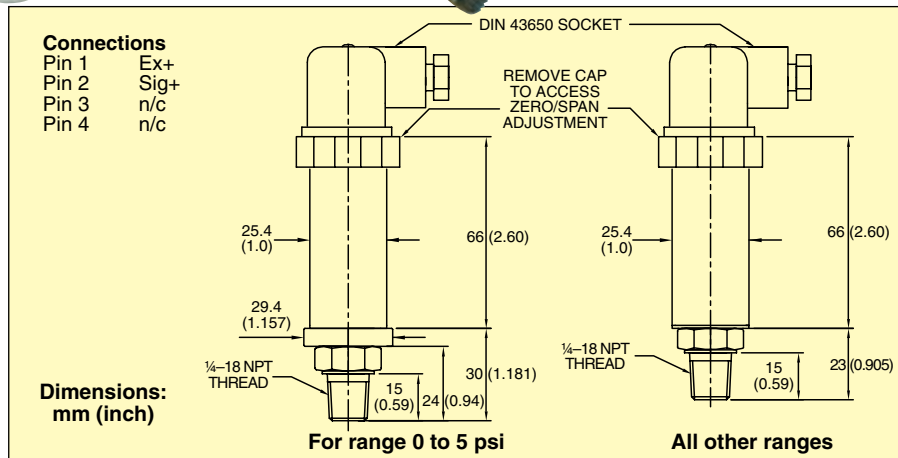
- ✓ Silicon on Sapphire Construction
- ✓ High Operating Temperature
- ✓ Titanium Wetted Parts
- ✓ 0.25% Accuracy
- ✓ Optional Plug-On Display with Available Set-point
- ✓ IP65 Enclosure

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 3½ 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.



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

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



SPECIFICATIONS

Excitation: 13 to 36 Vdc with PM1000
18 to 36 Vdc reverse polarity protected
Load Driving Capacity: 1150Ω @ 36 Vdc, R maximum = (Vs-13)/20 with PM1000 R maximum = (Vs-18)/20
Output: 4 to 20 mA (2-Wire) with zero and span adjustments
Accuracy: ±0.25% full scale includes linearity, and hysteresis
Repeatability: ±0.1% full scale
Long Term Stability (1yr): ±0.2% full scale
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% full scale/°F
Thermal Span Effect: <±0.016% full scale/°F
Humidity: 95% RH non-condensing
Maximum Overpressure: 200% full scale
Sensor: Silicon on Sapphire
Wetted Parts: Titanium
Case Material: Stainless Steel, IP65
Pressure Port: ¼ NPT male
Electrical Connection: DIN 43650 plug mating connector supplied
Response Time: 10 ms
Weight: 90 g (3.2 oz)

To Order

RANGE (psig)	MODEL NO.	COMPATIBLE METERS*
30 inHg to 0	PX4200-30VACI	DP41-E, DP25B-E, PM1000
0 inHg to 30	PX4200-30VACRI	DP41-E, DP25B-E, PM1000
0 to 5	PX4200-005GI	DP41-E, DP25B-E, PM1000
0 to 10	PX4200-010GI	DP41-E, DP25B-E, PM1000
0 to 15	PX4200-015GI	DP41-E, DP25B-E, PM1000
0 to 30	PX4200-030GI	DP41-E, DP25B-E, PM1000
0 to 60	PX4200-060GI	DP41-E, DP25B-E, PM1000
0 to 100	PX4200-100GI	DP41-E, DP25B-E, PM1000
0 to 150	PX4200-150GI	DP41-E, DP25B-E, PM1000
0 to 200	PX4200-200GI	DP41-E, DP25B-E, PM1000
0 to 300	PX4200-300GI	DP41-E, DP25B-E, PM1000
0 to 600	PX4200-600GI	DP41-E, DP25B-E, PM1000
0 to 1K	PX4200-1KGI	DP41-E, DP25B-E, PM1000
0 to 1.5K	PX4200-1.5KGI	DP41-E, DP25B-E, PM1000
0 to 3K	PX4200-3KGI	DP41-E, DP25B-E, DP24-E
0 to 6K	PX4200-6KGI	DP41-E, DP25B-E, DP24-E

PRESSURE MONITOR

PM1000	Plug-on display
PM1001	Plug-on display with single set-point

* Visit omega.com/meters for compatible meters.

Comes complete with 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.

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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• Heaters

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