

SILICON ON SAPPHIRE PRESSURE TRANSMITTER WITH OPTIONAL LOOP POWERED PRESSURE MONITOR

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.

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)

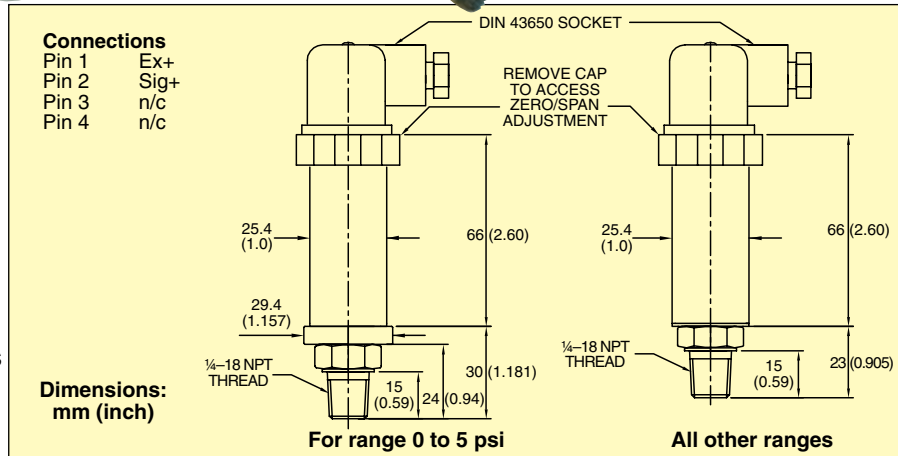
Vacuum to 6000 psi
 4 to 20 mA Output



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).



| 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 us online 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.

SPECIALTY
 PRESSURE TRANSDUCERS
B