



# SILICON ON SAPPHIRE PRESSURE TRANSMITTER OUTSTANDING PERFORMANCE AND STABILITY

## PXM4202 Series Vacuum to 1000 BAR 5 V Output

- ✓ Silicon on Sapphire Construction
- ✓ Titanium Wetted Parts for Media Compatibility
- ✓ 0.25% Accuracy
- ✓ 5 V Output is Compatible with Most PLC's and Control Systems
- ✓ High Operating Temperature
- ✓ IP65 Enclosure

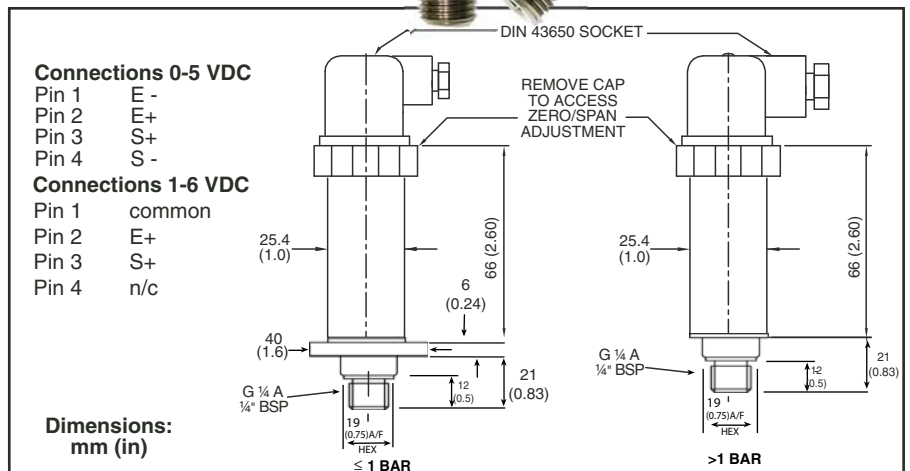
OMEGA's PXM4202 Series Transmitters bring state-of-the-art Silicon-on-Sapphire (SOS) sensor technology to the industrial arena. SOS construction uses very stable solid state silicon strain gages on a Sapphire carrier which is glass bonded to a titanium diaphragm. This combination provides a very durable transducer which has excellent stability over a wide temperature range. Additionally, the all titanium wetted parts provide maximum corrosion resistance to harsh industrial chemicals.

### SPECIFICATIONS

**Excitation:** 13 to 30 Vdc @ 10 mA reverse polarity protected  
**Supply Effects:** 1 mV/V  
**Output:** 0 to 5 Vdc  
**Zero Offset:** ±2%  
**Load Driving Capacity:** 2.5 kΩ  
**Accuracy:** ±0.25% FS includes Linearity, and Hysteresis  
**Repeatability:** ±0.1% FS  
**Long Term Stability:** ± 0.2% FS (1 year)  
**Media Temperature:** -58 to 248°F (-50 to 120°C)  
**Ambient Temperature:** -40 to 175°F (-40 to 80°C)  
**Thermal Zero Effect:** <±0.016% FS/°F  
**Thermal Span Effect:** <±0.016% FS/°F  
**Maximum Overpressure:** 200% FS  
**Sensor:** Silicon on Sapphire  
**Wetted Parts:** Titanium  
**Case Material:** Stainless Steel, IP65  
**Pressure Port:** G ¼ A (¼" BSP) male  
**Electrical Connection:** Din 43650 Plug Mating Connector Supplied  
**Response Time:** 10 ms  
**Weight:** 3.2 oz (90 g)



PXM4202-250BG5V, shown smaller than actual size.



### ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)			
RANGE (BAR)	MODEL NO.	PRICE	COMPATIBLE METERS*
0 to 1 bar Vac	PXM4202-VAC5V		DP41-B, DP25-E, DP-7700
0 to 500 mbarg	PXM4202-500MBG5V		DP41-B, DP25-E, DP-7700
0 to 1	PXM4202-1BG5V		DP41-B, DP25-E, DP-7700
0 to 1.6	PXM4202-1.6BG5V		DP41-B, DP25-E, DP-7700
0 to 2.5	PXM4202-2.5BG5V		DP41-B, DP25-E, DP-7700
0 to 4	PXM4202-004BG5V		DP41-B, DP25-E, DP-7700
0 to 6	PXM4202-006BG5V		DP41-B, DP25-E, DP-7700
0 to 10	PXM4202-010BG5V		DP41-B, DP25-E, DP-7700
0 to 16	PXM4202-016BG5V		DP41-B, DP25-E, DP-7700
0 to 25	PXM4202-025BG5V		DP41-B, DP25-E, DP-7700
0 to 40	PXM4202-040BG5V		DP41-B, DP25-E, DP-7700
0 to 60	PXM4202-060BG5V		DP41-B, DP25-E, DP-7700
0 to 100	PXM4202-100BG5V		DP41-B, DP25-E, DP-7700
0 to 160	PXM4202-160BG5V		DP41-B, DP25-E, DP-7700
0 to 250	PXM4202-250BG5V		DP41-B, DP25-E, DP-7700
0 to 400	PXM4202-400BG5V		DP41-B, DP25-E, DP-7700
0 to 600	PXM4202-600BG5V		DP41-B, DP25-E, DP-7700
0 to 1000	PXM4202-1KBG5V		DP41-B, DP25-E, DP-7700
PRESSURE MONITOR			
	PM1000		Plug-on display
	PM1001		Plug-on display with single set-point



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA

Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)

1-800-TC-OMEGA

#### GERMANY

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#### UNITED KINGDOM

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#### CZECH REPUBLIC

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## More than 100,000 Products Available!

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Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • 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

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters