

VERY LOW DIFFERENTIAL PRESSURE FOR AIR OR NON-CONDUCTING GAS

4-20 mA Output



PX2670 Series

\$320

0-0.1 to ±5 inH₂O
4-20 mA Output



PX2670-1DI-M



PX2670-1DI

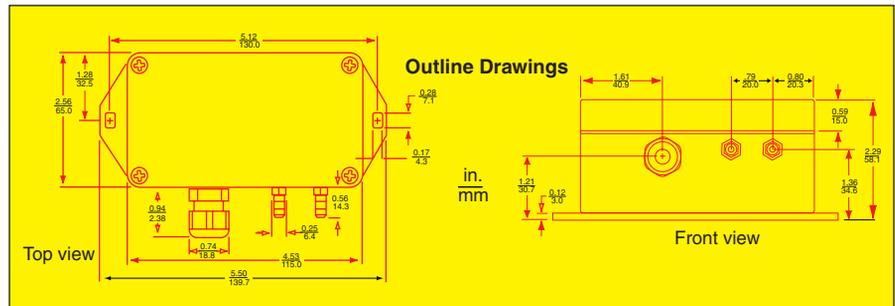
- ✓ 0.4% Accuracy Improves Energy Management Systems
- ✓ 4-20 mA Output Is Compatible with Most 2-Wire Control Systems
- ✓ Optional 3½-Digit LCD Display
- ✓ IP65/NEMA-4 Enclosure
- ✓ 11-Point Calibration Certificate Standard

OMEGA's PX2670 Series pressure transducers sense either differential or gage pressure and convert this pressure to a highly accurate electrical signal. Used in building energy management systems, these transducers are capable of measuring pressures and flows with a high degree of accuracy to improve overall system efficiency. The units are temperature compensated to better than 0.33% FS/°F over the range of 40 to 150°F and have an IP65/NEMA-4 rated package to withstand environmental effects. A 3½-digit LCD display is optional.

SPECIFICATIONS

- Excitation:** 24 Vdc nominal
- Max:** 30.0 + (0.004 x Loop Resistance Ω) Vdc
- Min:** 14.0 + (0.02 x Loop Resistance Ω) Vdc
- Loop Resistance:** 0 to 800 Ω
- Output:** 4-20 mA (2-wire) with internal zero and span adjustments
- Accuracy:** ±0.4% FS at constant temperature (includes linearity, repeatability, and hysteresis)
- Linearity:** ±0.33% FS
- Hysteresis:** 0.020% FS
- Repeatability:** 0.10% FS
- Output Impedance:** <100 Ω
- Operable Temperature Range:** 0 to 150°F (-18 to 65°C)
- Compensated Temperature Range:** 40 to 150°F (5 to 65°C)
- Thermal Span Effect:** ±0.033%FS/°F
- Sensor:** Capacitance
- Position Effects:**

Range	Zero Offset (%FS/G)
0-10 inH ₂ O	.03
0-1 inH ₂ O	1
0-0.1 inH ₂ O	4
- Maximum Line Pressure:** 10 psi
- Overpressure:**
- Negative Direction:** 10 psi
- Positive Direction:** 10 psi
- Wetted Parts:** Air and non-conductive gas
- Pressure Port:** 3/16" OD tube fitting for 1/4" push-on tube
- Electrical Connection:** Internal Terminal Strip with Strain Relief
- Weight:** 11 oz (310 g)



To Order (Specify Model Number)

RANGE (inH ₂ O)	MODEL NO.	PRICE	COMPATIBLE METERS
0 to 0.1	PX2670-0.1DI	\$320	DP41-E, DP25-E, DP-24-E
0 to 0.25	PX2670-0.25DI	320	DP41-E, DP25-E, DP-24-E
0 to 0.5	PX2670-0.5DI	320	DP41-E, DP25-E, DP-24-E
0 to 1	PX2670-1DI	320	DP41-E, DP25-E, DP-24-E
0 to 2.5	PX2670-2.5DI	320	DP41-E, DP25-E, DP-24-E
0 to 5	PX2670-5DI	320	DP41-E, DP25-E, DP-24-E
0 to 10	PX2670-10DI	320	DP41-E, DP25-E, DP-24-E
0 to 25	PX2670-25DI	320	DP41-E, DP25-E, DP-24-E
±0.1	PX2670-0.1BDI	320	DP41-E, DP25-E, DP-24-E
±0.25	PX2670-0.25BDI	320	DP41-E, DP25-E, DP-24-E
±0.5	PX2670-0.5BDI	320	DP41-E, DP25-E, DP-24-E
±1	PX2670-1BDI	320	DP41-E, DP25-E, DP-24-E
±2.5	PX2670-2.5BDI	320	DP41-E, DP25-E, DP-24-E
±5	PX2670-5BDI	320	DP41-E, DP25-E, DP-24-E

All models come with complete operator's manual.

Optional LCD Meter: Add suffix "-M" to model number and add \$100 to list price.

Ordering Example: PX2670-0.5BDI-M has a bidirectional range from -0.5 to +0.5 in-H₂O a 4-20 mA output and an LCD Display, \$320+100 = \$420.

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• 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