

# VERY LOW DIFFERENTIAL PRESSURE FOR AIR OR NON-CONDUCTING GAS

4-20 mA Output



PX2670 Series  
**\$320**

0-0.1 to ±5 inH<sub>2</sub>O  
4-20 mA Output



PX2670-1DI-M



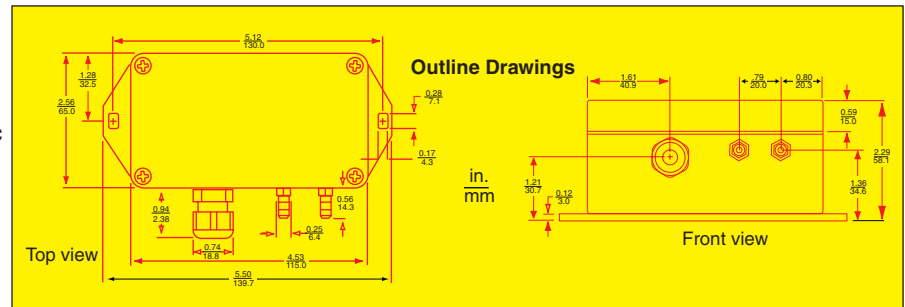
PX2670-1DI

- ✓ 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 <sub>2</sub> O  | .03                 |
| 0-1 inH <sub>2</sub> O   | 1                   |
| 0-0.1 inH <sub>2</sub> 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:** ⅝" OD tube fitting for ¼" push-on tube  
**Electrical Connection:** Internal Terminal Strip with Strain Relief  
**Weight:** 11 oz (310 g)



## To Order (Specify Model Number)

RANGE (inH <sub>2</sub> 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-H<sub>2</sub>O a 4-20 mA output and an LCD Display, \$320+100 = \$420.



#### 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

[www.omega.de](http://www.omega.de)  
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0800-8266342

#### UNITED KINGDOM

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0800-488-488

#### FRANCE

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#### CZECH REPUBLIC

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