

# WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

Metric thread adaptors and snubbers available, visit us online

0-5 to 0-1000 psid  
0-0.3 to 0-69 bar

Low Differential Pressure:

0-1 to 0-25 inH<sub>2</sub>O  
0-250 Pa to 6 kPa

## PX154 Series



PS-8 snubber, sold separately.



- ✓ Zero and Span Controls for Easy Adjustment
- ✓ Weatherproof NEMA 4 (IP65) Enclosure
- ✓ Low Differential Pressure Measurements available
- ✓ Bi-Directional Ranges Available

The OMEGA PX154 transmitter provides an accurate, reliable, and economical means for monitoring differential pressures in HVAC automation, pneumatic systems, and process control. The output can be easily interfaced with chart recorders, data loggers, and computerized monitoring and control systems. Modern, low-pressure chemical vapor deposition methods provide simple, stable molecular bonds between a proven metal diaphragm and a polysilicone strain gage bridge. The integral metal diaphragm and polysilicone bridge are virtually unaffected by shock, vibration, or mounting.

PX157-005DI, shown much smaller than actual size.

### SPECIFICATIONS

Excitation: 24 Vdc (18 to 30 Vdc)  
Output: 4 to 20 mA  
Accuracy:  $\pm 0.75\%$  FS/BFSL  
Zero Balance: 1%  
Zero and Span Adjustment: 10%  
PX157: Operating Temperature: -40 to 120°C (-40 to 248°F)  
Compensated Temperature: -30 to 80°C (-22 to 176°F)  
PX154: Compensated Temp: 0 to 50°C (32 to 122°F)  
Thermal Effects:  
PX157: Zero:  $\pm 0.02\%/^{\circ}\text{C}$   
Span:  $\pm 0.02\%/^{\circ}\text{C}$   
PX154: Zero:  $\pm 0.03\%$  full scale/ $^{\circ}\text{C}$  ( $\pm 0.05\%$  full scale/ $^{\circ}\text{F}$ )  
Span:  $\pm 0.03\%$  rdg/ $^{\circ}\text{C}$  ( $\pm 0.05\%$  rdg/ $^{\circ}\text{F}$ )  
Proof Pressure:  
PX157: 2x FS  
PX154: 1.3 bar (20 psi)

Common Line Pressure: 1.3 bar (20 psi)  
Burst Pressure:  
PX157: 3x FS  
PX154: 4 bar (60 psi)  
Pressure Port: 1/8 FNPT  
Response Time: 100 ms  
Humidity Effects: 5 to 99% RH (non-condensing)  
Media Compatibility:  
PX157: Liquids or gases compatible with brass and 17-4 PH stainless steel  
PX154: Liquids or gases compatible with brass, vinyl, polyester, silica and fluorosilicone  
Termination: Screw terminal block  
Enclosure: Epoxy coated, steel enclosure, NEMA 4 (IP65) rating  
Dimensions: 141 x 75 x 94 mm (59/16 x 215/16 x 39/16")  
Weight: 454 g (1.0 lb)

Comes complete with operator's manual.

\* Visit us online for compatible meters.

## To Order

| MODEL NO.          | RANGE                      |               | COMPATIBLE METERS*      | DESCRIPTION                                    |
|--------------------|----------------------------|---------------|-------------------------|--|
| PX154-001DI        | 0 to 1 inH <sub>2</sub> O  | 0 to 249 Pa   | DP24-E, DP25B-E, DP41-E |  |
| PX154-003DI        | 0 to 3 inH <sub>2</sub> O  | 0 to 748 Pa   | DP24-E, DP25B-E, DP41-E |  |
| PX154-005DI        | 0 to 5 inH <sub>2</sub> O  | 0 to 1.25 kPa | DP24-E, DP25B-E, DP41-E |  |
| PX154-010DI        | 0 to 10 inH <sub>2</sub> O | 0 to 2.49 kPa | DP24-E, DP25B-E, DP41-E |  |
| PX154-025DI        | 0 to 25 inH <sub>2</sub> O | 0 to 6.23 kPa | DP24-E, DP25B-E, DP41-E |  |
| <i>Accessories</i> |                            |               |                         |  |
| Ps-8G              |                            |               |                         | Pressure snubber for gaseous media             |
| Ps-8e              |                            |               |                         | Pressure snubber for water and light oils      |
| Ps-8D              |                            |               |                         | Pressure snubber for dense liquids (motor oil) |
| TX4-100            |                            |               |                         | 30 m (100') spool of 4-conductor shielded wire |

Ordering Examples: PX154-005DI, low differential pressure transmitter with range of 0 to 5.0 inH<sub>2</sub>O differential.

PX154-001DI, low differential pressure transmitter with range of 0 to 1 inH<sub>2</sub>O.