

# NEMA 4 (IP65) CASE LOW DIFFERENTIAL PRESSURE TRANSMITTERS

**PX292 Series**  
 0-0.1 inH<sub>2</sub>O to 0-30 psid  
 0-25 Pa to 0-2 bar

Starts at  
**\$281**



PX292-010WDI, \$281, shown smaller than actual size.



PX292-001WDI, \$281, shown smaller than actual size.



## Applications:

- ✓ Clean Room Pressures
- ✓ Filters Differentials
- ✓ Static Fan Pressures
- ✓ Variable-Volume Air Systems
- ✓ Velocity Pressures
- ✓ Bubbler Level
- ✓ Fume Hood
- ✓ Draft Measurements

- ✓ Current Outputs
- ✓ Low Power Consumption
- ✓ No Moving Parts to Wear
- ✓ Position Insensitive

- ✓ Reliable Long-Term Stability
- ✓ NEMA 4 (IP65) Cast Aluminum Case

**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)						
RANGE		4 TO 20 mA OUTPUT	PRICE	MAX* OVERPRESSURE		COMPATIBLE METERS**
0 to 0.1 inH <sub>2</sub> O	0 to 25 Pa	PX292-0.1WDI	\$296	5 inH <sub>2</sub> O	1.25 kPa	DP41-E, DP25B-E, DP24-E
0 to 0.2 inH <sub>2</sub> O	0 to 50 Pa	PX292-0.2WDI	281	5 inH <sub>2</sub> O	1.25 kPa	DP41-E, DP25B-E, DP24-E
0 to 0.3 inH <sub>2</sub> O	0 to 75 Pa	PX292-0.3WDI	281	5 inH <sub>2</sub> O	1.25 kPa	DP41-E, DP25B-E, DP24-E
0 to 0.5 inH <sub>2</sub> O	0 to 125 Pa	PX292-0.5WDI	281	5 inH <sub>2</sub> O	1.25 kPa	DP41-E, DP25B-E, DP24-E
0 to 1 inH <sub>2</sub> O	0 to 249 Pa	PX292-001WDI	281	20 inH <sub>2</sub> O	4.98 kPa	DP41-E, DP25B-E, DP24-E
0 to 2 inH <sub>2</sub> O	0 to 498 Pa	PX292-002WDI	281	20 inH <sub>2</sub> O	4.98 kPa	DP41-E, DP25B-E, DP24-E
0 to 3 inH <sub>2</sub> O	0 to 748 Pa	PX292-003WDI	281	20 inH <sub>2</sub> O	4.98 kPa	DP41-E, DP25B-E, DP24-E
0 to 5 inH <sub>2</sub> O	0 to 1.25 kPa	PX292-005WDI	281	5 psid	0.34 bar	DP41-E, DP25B-E, DP24-E
0 to 10 inH <sub>2</sub> O	0 to 2.49 kPa	PX292-010WDI	281	5 psid	0.34 bar	DP41-E, DP25B-E, DP24-E
0 to 20 inH <sub>2</sub> O	0 to 4.98 kPa	PX292-020WDI	281	5 psid	0.34 bar	DP41-E, DP25B-E, DP24-E
0 to 30 inH <sub>2</sub> O	0 to 7.47 kPa	PX292-030WDI	281	5 psid	0.34 bar	DP41-E, DP25B-E, DP24-E
0 to 50 inH <sub>2</sub> O	0 to 12.5 kPa	PX291-050WDI	281	15 psid	1.0 bar	DP41-E, DP25B-E, DP24-E
0 to 100 inH <sub>2</sub> O	0 to 24.9 kPa	PX292-100WDI	281	15 psid	1.0 bar	DP41-E, DP25B-E, DP24-E
0 to 1 psid	0 to 0.07 bar	PX292-001DI	281	15 psid	1.0 bar	DP41-E, DP25B-E, DP24-E
0 to 2 psid	0 to 0.14 bar	PX292-002DI	281	15 psid	1.0 bar	DP41-E, DP25B-E, DP24-E
0 to 5 psid	0 to 0.34 bar	PX292-005DI	281	15 psid	1.0 bar	DP41-E, DP25B-E, DP24-E
0 to 15 psid	0 to 1.0 bar	PX292-015DI	281	30 psid	2.1 bar	DP41-E, DP25B-E, DP24-E
0 to 30 psid	0 to 2.1 bar	PX292-030DI	281	60 psid	4.1 bar	DP41-E, DP25B-E, DP24-E

Comes complete with operator's manual.

\* Maximum momentary overpressure.

\*\* See section D for compatible meters.

Note: See specifications for description of the elevated zero option, \$31 additional.

Ordering Examples: PX292-001WDI, range of 1.00 inH<sub>2</sub>O at 20 mA and 0 differential pressure at 4 mA, \$281. PX292-001WDI-A, range of 1.00 inH<sub>2</sub>O at 20 mA and -0.33 inH<sub>2</sub>O at 4 mA, \$281 + 31 = \$312.

## ACCESSORY

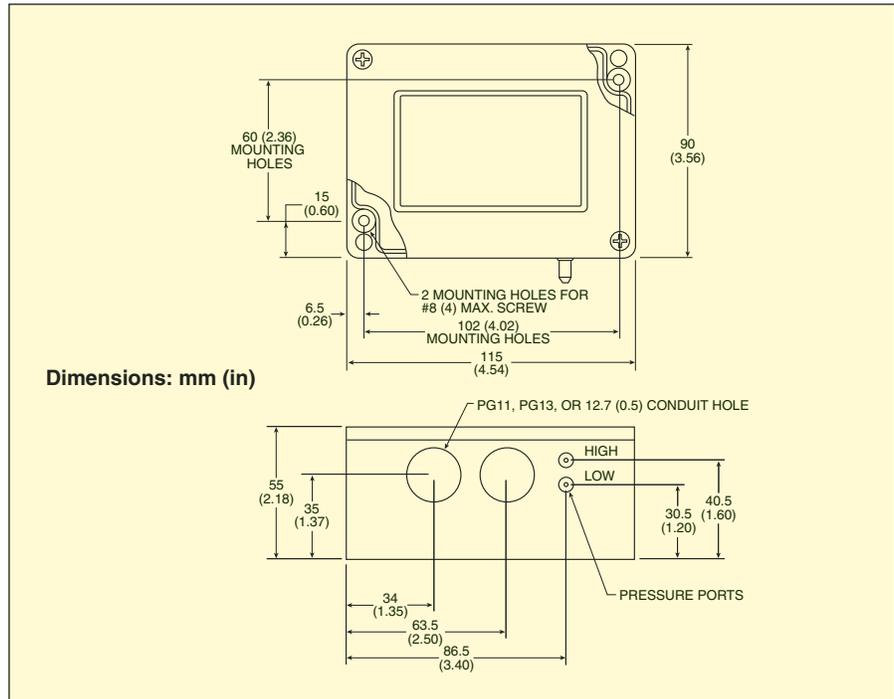
MODEL NO.	PRICE	DESCRIPTION
ES-2062	\$83	Reference Book: Hazardous Gases and Fumes



# 0 TO 5 Vdc OR 4 TO 20 mA OUTPUTS ZERO OFFSET

The PX292 Series of differential pressure transmitters is designed to measure low pressures while using little power. A selection of ranges is available to meet most industrial and laboratory applications.

The transmitters are housed in a rugged, gasketed, cast-aluminum case that's designed to NEMA 4 and IP65 standards. Wall-mounting holes are in the casting. The terminals are accessed through ½" conduit knockouts on the front of the box. There are no moving parts and the transmitters are virtually position insensitive. The span and zero settings are made via 20-turn potentiometers for easy, precise adjustments. The pressure sensing element is a differential capacitive cell for the low pressure ranges from 0.1 to 5 inH<sub>2</sub>O and a piezoresistive chip for ranges above 5 inH<sub>2</sub>O. Both sensors ensure reliability and long-term stability.



## SPECIFICATIONS

**General:** Measures differential, gage pressure or vacuum

**Excitation:** 11 to 32 Vdc reverse polarity protected

**Current Output:**  
4 to 20 mA, output limited to approximately 3.85 mA at low end and 27 mA at high end

**Maximum Current Loop Resistance:**  
 $R_L = (V_S - 11) \times 50$

**Accuracy:** ±1% includes linearity, hysteresis

**Calibration:** NIST traceable

**Operating Temperature:**  
0 to 45°C (32 to 115°F)

**Temperature Effects:**

**Zero:** ±0.05%/°C

**Span:** ±0.02%/°C

**Operating Humidity Range:**  
10 to 90% non-condensing

**Shock Resistance:** 10 g (11 ms)

**Vibration Resistance:** 5 g to 50 Hz

**Overpressure:** See order chart for maximum safe momentary overpressure

**Media Compatibility:** Suitable for air or inert gas

**Pressure Connection:** ⅜" Dia. tube connections with integral filters at both ports. Suitable for ⅜" ID Tygon® or polyurethane tubing (3-4 mm) or ¼" OD polyethylene tubing (6 mm).

**Electrical Connection:** Pluggable terminal block for 14 to 26 AWG

**Case Material:** Aluminum alloy #A380 with black epoxy coating

**Dimensions:** 90 W x 115 L x 55 mm H (3.56 x 4.54 x 2.18")

**Weight:** 576 g (1.27 lb)

## OFFSET OPTIONS

If the measured differential pressure is expected to go from positive to negative, a transmitter with offset (elevated zero) should be ordered. The standard models in the order chart have no offset (i.e., at zero differential pressure, the output is 0 Vdc or 4 mA).

Two offset options are available:

### "A" ¼ Span Offset

At zero differential pressure, the output is 1.25 Vdc or 8 mA.  
Allowable Pressure Excursion:  
-33% to 100% of range

### "B" ½ Span Offset

At zero differential pressure, the output is 2.5 Vdc or 12 mA.  
Allowable Pressure Excursion:  
-100% to 100% of range

**PX292-001WDI-B** will have a range of +1" water at 20 mA and -1" water at 4 mA.

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