

RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER



10:1 Turndown in 4 steps

**Maximum Ranges 50 to 250 psi
(3.4 to 17 bar)**

0 to 5 Vdc, 1 to 5 Vdc,

0 to 10 Vdc, 4 to 20 mA (2-Wire)

PX2310 Series



- ✓ Each Model has
4 Unidirectional and
4 Bi-Directional Ranges
- ✓ 4 Selectable Outputs,
0 to 5 Vdc, 1 to 5 Vdc,
0 to 10 Vdc, 4 to 20 mA
(2-Wire)
- ✓ Jumper Selectable
Hi/Lo Ports
- ✓ 4-Digit LCD can Show
Either Line or
Differential Pressure
- ✓ Pushbutton or
Remote Zero
- ✓ Rugged NEMA 4 Cast
Aluminum Housing

Applications

- ✓ Energy Management
Systems
- ✓ Process Control Systems
- ✓ Flow Measurement
- ✓ Liquid Level
- ✓ Pressure Drops
Across Filters

The PX2310 offers the user unprecedented flexibility allowing field selection of range, type of output and field zeroing. The user can also select which port is hi and lo via jumpers. The 4-digit display can also be set to read either line pressure or differential pressure. The entire package is rugged cast aluminum with a NEMA 4 rating and the solid state sensor offers excellent accuracy, stability, and low long term drift.



PX2310, shown smaller than actual size.

SPECIFICATIONS

Accuracy RSS Ranges A, B & C: $\pm 1.0\%$
Full Scale; Range D:
 $\pm 2.0\%$ RSS full scale

Storage Temperature: -20 to 85°C
(-4 to 185°F)

Operating Temperature: -20 to 85°C
(-4 to 185°F) (Limits of Electronics only)

Compensated Range: 0 to 54°C
(32 to 130°F)

Zero Shift (Over Compensated Range): 2.0% full scale

Span Shift (Over Compensated Range): 2.0% full scale

Response Time: 1 to 5 seconds, selectable

Proof Pressure: 2.2 x full scale

Burst Pressure: 40 x full scale

Vibration: 10 g from 50 to 2000 Hz

Shock: 200 g

Excitation: 12 to 30 Vdc @ 5 mA (typical)/18 to 28 Vac 40 mA (typical) (reverse polarity protected)

Output User Selectable:

Voltage: 0 to 5 Vdc, 0 to 10 Vdc,
1 to 5 Vdc 3-wire system

Current: 4 to 20 mA 2-wire system
(0 to 1000 Ω load)

Minimum Supply Voltage:

Vdc = $12 + 0.2 \times \text{loop resistance}$

Maximum Supply Voltage:

Vdc = $30 + 0.004 \times \text{loop resistance}$

Electrical Connection: 1/2 in conduit

Pressure Connection: 1/8-18 NPT
internal

Sensor Cavity Volume: 0.2 cc

Case: Die cast aluminum,
powder coated

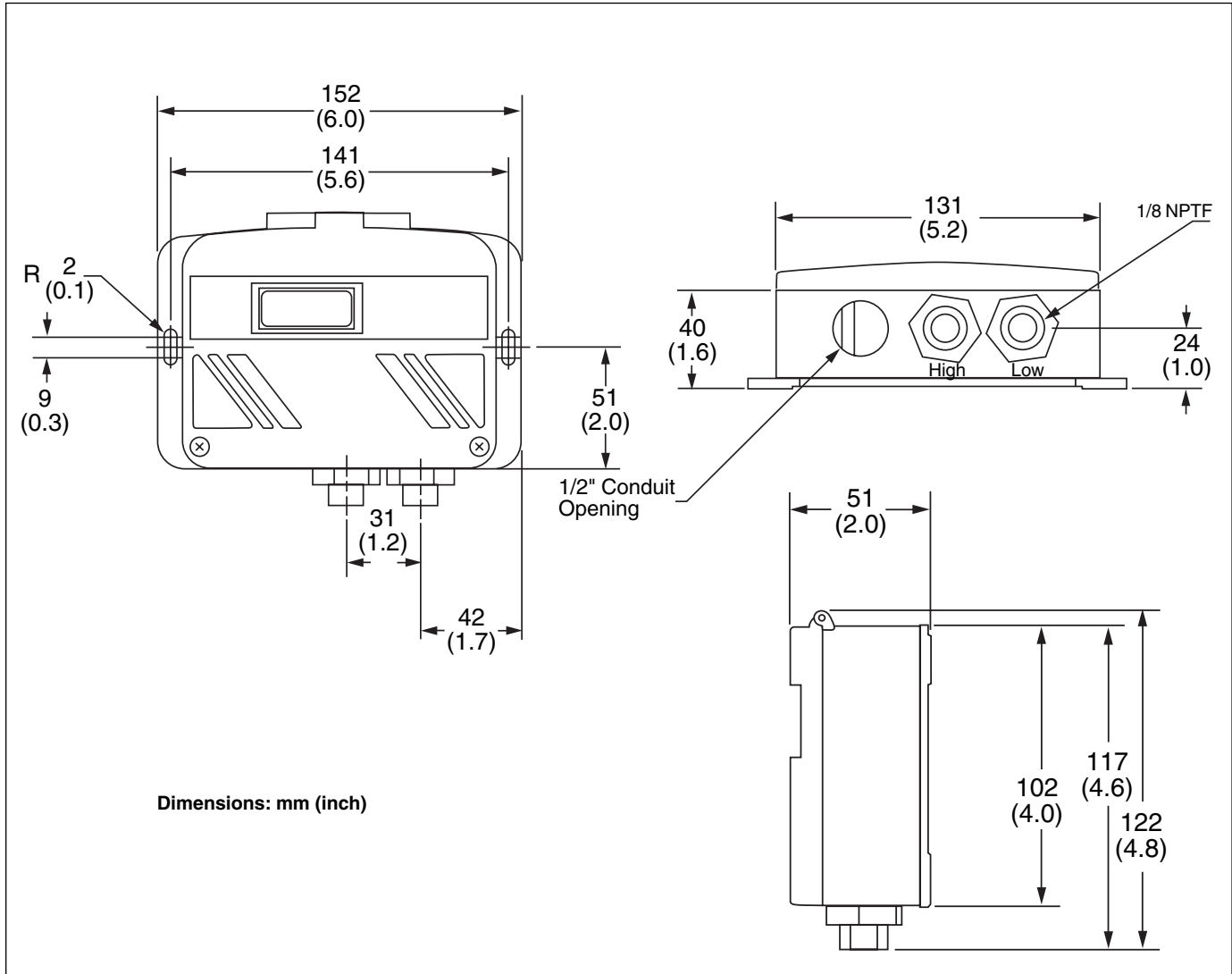
Environmental Protection: NEMA 4

Wetted Parts: 17-4 PH stainless steel
(not recommended for hydrogen)

Dimensions:

102 L x 152 W x 51 mm diameter
(4.0 x 6 x 2")

Weight: 0.7 kg (25 oz)



DP25B-E shown smaller than actual size. For details visit omega.com/dp25b

To Order

MODEL NUMBER	USER SELECTABLE RANGES psi				MAXIMUM LINE PRESSURE psi
	A	B	C	D	
PX2310-050DX	0 to 50 (±50)	0 to 20 (±20)	0 to 10 (±10)	0 to 5 (±5)	50
PX2310-100DX	0 to 100 (±100)	0 to 50 (±50)	0 to 20 (±20)	0 to 10 (±10)	100
PX2310-250DX	0 to 250 (±250)	0 to 125 (±125)	0 to 50 (±50)	0 to 25 (±25)	250

Comes complete with operator's manual.

Ordering Examples: PX2310-050DX, rangeable differential pressure transmitter with selectable voltage or current output, maximum range 50 psi, minimum range 5 psi.

PX2310-250DX, rangeable differential pressure transmitter with selectable voltage or current output, maximum range 250 psi, minimum range 25 psi.