RANGEABLE WET/WET DIFFERENTIAL

PRESSURE TRANSMITTER

LCD WITH BACKLIGHT

Bi-Directional Ranges: ±4 inH₂0 to ±200 inH₂0 [±10 to ±500 mbar (hPa)] Unidirectional Ranges: 0 to 4 inH₂0 to 0 to 400 inH₂0 [10 to 1000 mbar (hPa)] 4 to 20 mA output

PX5200 Series



- Compact Size
- ✓ NEMA 4X (IP65) Environmental Rating
- ✓ Backlit LCD for Easy Reading
- Display Can Be Scaled to Any Units
- ✓ Display Rotates in 90° Increments to Fit Location
- Stainless Steel, FKM, and Ceramic Wetted Parts
- ✓ Flow measurement
 Totalization/Square Root
 Extraction Function
- Quick Ranging with Internal Push-Buttons
- Scale to Display in Any Engineering Units
- MIN/MAX and HOLD Functions
- ✓ Loop Check Function to Check Circuit
- Program Lock Function

The new OMEGA® PX5200 is a compact wet/wet differential pressure dP transmitter, ideal for flow and tank level applications where reliable, low dP measurements are required. Equipped with a solid state sensor and a 316 Stainless Steel isolating diaphragm, the PX5200 can monitor a wide variety of wet or dry media. Available in unidirectional ranges from 0 - 4 to 0 - 400 inH₂O and bi-directional ranges up to





 ± 200 in H_2O , the PX5200 operates on line (static) pressures up to 300 psi.

A rugged aluminum NEMA 4X (IP65) enclosure measures only 65 mm (2.56") in diameter and incorporates a backlit LCD display for local reading.

The output is a two-wire configurable 4 to 20 mA signal that can be adjusted to re-range the transmitter or "tare" unwanted fluid head preloads. In addition, this instrument offers flow measurement/

square root extraction, where the indicated flow rate and analog signal can be displayed. Rangeability for zero and span are from -10 to 110% FS URL (Upper Range Limit). This means a 20 inH₂O transducer can have the zero set between -2 inH₂O to FS 22 inH₂O. Span can be set over that range also. For example zero could be set for 2 inH₂O and 22 inH₂O maximum so the output would be 4 mA at 2 inH₂O, midpoint 12 mA would be 12 inH₂O and 20 mA would be 22 inH₂O.



SPECIFICATIONS

Output: 4 to 20 mAdc (2-wire) Supply Voltage: 12 to 32 Vdc Vmin=12V+(0.022Ax loop res) Insulation Resistance: 50 Vdc

 $(>100 M\Omega)$

Rangeability/Adjustments: Zero: -10% to 110% FS Span: -10% to 110% FS

Accuracy: ±0.5% FS URL (upper range limit) @23°C includes linearity, hysteresis

and repeatability

Note: Accuracy and output resolution based upon FS URL (upper range limit) value.

Stability: ±0.25% FS/year

Response Time: 100 ms (adjustable)
Output Resolution: 0.1% FS URL
Display: 4-digit, 10 mm LCD with
LED backlight

Display Accuracy: ±0.5% FS URL

(upper range limit) + 1 digit

Storage Temperature: -15 to 65°C

(5 to 150°F)

Operating Temperature: -10 to 60°C

(14 to 140°F)

Compensated Temperature: -10 to 60°C

(14 to 140°F)

Temperature Effects (Over Comp

Range): ±0.03% FS URL /°C (from 23°C reference)

Static (Line) Pressure (All Ranges):

Proof: 300 psi **Burst:** 800 psi

Static (Line) Pressure Effects:

≥**20 inH₂O, ±8 inH₂O:** ±0.03% FS/ 100 psi

8 inH₂O, ±4 inH₂O: ±0.07% FS/

100 psi

4 inH₂O: ±0.15% FS/100 psi Single Side (Differential) Limits:

≤8 inH₂O, ±4 inH₂O:
Proof: 30 psid
Burst: 130 psi
≥20 inH₂O, ±8 inH₂O:
Proof: 100 psid
Burst: 130 psi
Vibration: 5 g 150 Hz
Shock: 10 g 16 ms

Pressure Connection: ¼ NPT female Electrical Termination: ½ NPT female

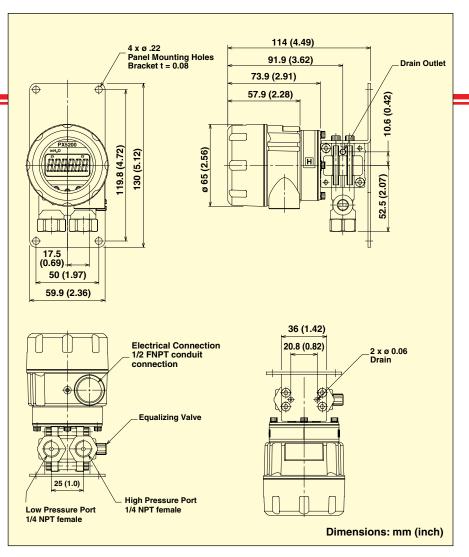
conduit fitting

Environmental Rating:

NEMA 4X (IP65)

Media: Fluids and gasses compatible with 316SS, FKM, and alumina ceramic

Weight: Approx 454 g (1 lb)



To Order Visit omega.com/px5200 for Pricing and Details		
SPAN AND ZERO ADJUSTABLE -10% to +110% FS URL		
RANGE		
inH ₂ O	mb (hPa)	MODEL NO.
BI-DIRECTIONAL RANGES		
±4 inH ₂ O	±10 mbar	PX5200-004WBDI
±8 inH ₂ O	±20 mbar	PX5200-008WBDI
±20 inH ₂ O	±50 mbar	PX5200-020WBDI
±40 inH ₂ O	±100 mbar	PX5200-040WBDI
±80 inH ₂ O	±200 mbar	PX5200-080WBDI
±200 inH ₂ O	±500 mbar	PX5200-200WBDI
UNI-DIRECTIONAL RANGES		
0 to 4 inH ₂ O	0 to 10 mbar	PX5200-004WUDI
0 to 8 inH ₂ O	0 to 20 mbar	PX5200-008WUDI
0 to 20 inH ₂ O	0 to 50 mbar	PX5200-020WUDI
0 to 40 inH ₂ O	0 to 100 mbar	PX5200-040WUDI
0 to 80 inH ₂ O	0 to 200 mbar	PX5200-080WUDI
0 to 200 inH ₂ O	0 to 500 mbar	PX5200-200WUDI
0 to 400 inH ₂ O	0 to 1000 mbar	PX5200-400WUDI
OPTION (ADD AS SUFFIX TO MODEL NO.)		
-XRH 9-point NIST traceable calibration, must specify at time of order		

Comes complete with mounting bracket and operator's manual.

Ordering Examples: PX5200-020WUDI, 0 to 20 inH₂O unidirectional differential pressure rangeable transmitter, 4 to 20 mA output.

PX5200-004WBDI, ± 4 inH₂O bidirectional differential pressure rangeable transmitter, 4 to 20 mA output (4 mA = -4 inH₂O, 20 mA = + 4 inH₂O), ½ NPT female.