

GENERAL PURPOSE WET/WET DIFFERENTIAL PRESSURE TRANSDUCER

LOW BIDIRECTIONAL OR UNIDIRECTIONAL RANGES

- ✓ Accuracy $\pm 0.25\%$ FS
- ✓ Unidirectional or Bidirectional Ranges
- ✓ Line Pressure from Vacuum to 300 psig
- ✓ Wet/Wet Differential Pressure Measurement

The PX548 is a general purpose, wet/wet differential pressure transducer designed for differential or relative pressure measurement of liquids or gases. Its water resistant case and rugged design make it suitable for Leak Detection, Clean Room or Environmental Monitoring. Models are available in ranges from 0.2 inches of water to 150 psi.

SPECIFICATIONS

Excitation:

10 to 30 Vdc for 4 to 20 mA
18 to 30 Vdc for 0 to 10 Vdc
 ± 8 to ± 15 Vdc for ± 5 Vdc

Output: 4 to 20 mA 2-wire or 0 to 10 Vdc 4-wire (unidirectional ranges)

12 ± 8 mA (bidirectional ranges)
 ± 5 Vdc 4-wire (bidirectional ranges)

Accuracy: $\pm 0.25\%$ FS BFLS

Long Term Stability: $< \pm 0.3\%$ /year @ stabilized temperature

Operating Temperature Range: -20 to 82°C (-4 to 180°F)

Compensated Temperature Range: -5 to 50°C (22 to 122°F)

Zero Offset: -15 to 100% Range

Span Setting: -20% to 50% Range

Thermal Zero Effect: 0.012% FS/°F

Thermal Sensitivity Effect: 0.012% Reading/°F

Static Pressure: Vacuum to 300 psig for all ranges

Static Pressure Effect:

$< 2\%$ /1000 psi, can be zeroed out at operating pressure

Proof Pressure: 20x ranges 0.4 to 8 in H₂O 8x ranges 20 to 80 in H₂O 3x for psid ranges

Dead Volume: 6 ± 1 cm³ all ranges

Response Time: 10 to 500 ms, adjustable by switches under cover

Vibration: 50 g up to 2 kHz

Body Material: Black anodized aluminum

Wetted Parts: Beryllium Copper, Anodized Aluminum (AU4G) and Brazing Solder (Pb/Sn)

Environmental Sealing: NEMA-4 (IP66)

Pressure Connection:

G $\frac{1}{8}$ female, supplied with brass adaptor to $\frac{1}{8}$ " NPT female

PX548 Series
0-0.2 inH₂O to 0-150 PSID

DISCONTINUED

PX548
\$835
Ranges ≥ 1 " WC



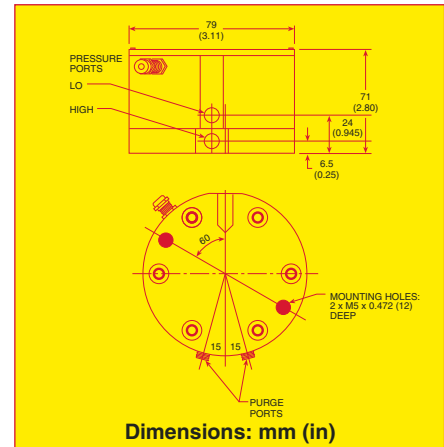
Electrical Connection:

PG7 Cable Gland with screw terminal block accessible under cover

Weight: 0.95 kg (2.1 lb)

Available Ranges

Unidirectional RANGE	CODE	Bidirectional RANGE	CODE
Inches of Water Ranges			
0 to 0.2	0.2WD	± 0.1	0.1WBD
0 to 0.4	0.4WD	± 0.2	0.2WBD
0 to 0.8	0.8WD	± 0.4	0.4WBD
0 to 2.0	02WD	± 1.0	01WBD
0 to 4.0	04WD	± 2.0	02WBD
0 to 20	20WD	± 10	10WBD
0 to 40	40WD	± 20	20WBD
0 to 80	80WD	± 40	40WBD
PSI RANGES			
0 to 7.5	7.5D	± 3.75	3.75BD
0 to 30	30D	± 15	15BD
0 to 75	75D	± 37.5	37.5BD
0 to 150	150D	± 75	75BD



Shown smaller than actual size

DIFFERENTIAL PRESSURE TRANSDUCERS **B**

To Order (Specify Model Number)

Current Output MODEL NO.	Voltage Output MODEL NO.	PRICE ≥ 1 " WC	COMPATIBLE METERS
UNIDIRECTIONAL RANGES			
PX548-(xxx)I	PX548-(xxx)10V	\$835*	DP24-E, DP25-E, DP41-E
BIDIRECTIONAL RANGES			
PX548-(xxx)I	PX548-(xxx)5V	\$835*	DP25-E**, DP41-E**

* Price for Range ≥ 1 " WC. For Ranges < 1 " WC add \$95.

** Bi-directional voltage models require dual (\pm) power supply, such as PSS-D12A, \$114. (xxx) Insert range code from Available Range chart above.

Ordering Examples: 1) PX548-0.4WBDI is a bidirectional ± 0.4 " water column transducer with a 4 to 20 mA output, \$835 + 90 = \$930. 2) PX548-7.5D10V is a unidirectional 0 to 7.5 psid differential pressure transducer with a 0 to 10 Vdc output, \$835.

DISCONTINUED



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www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

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• Temperature

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters