# **PW SERIES**

Jumper-Selectable Port Swap Feature



The PW Series wet pressure transducers incorporate microprocessor profiled sensors for exceptional accuracy and reliability. Easy to use and designed to provide exceptional installation savings, the PW Series is ideal for measuring pressure across pumps, filters, heat exchangers, compressors, and other non-corrosive wet media applications.

The jumper-selectable port swap feature eliminates costly replumbing when the high and low ports are improperly plumbed, allowing the jumper position to be changed from normal to swap.

#### **SPECIFICATIONS**

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GENERAL	
Input Power	Class 2; 12 to 30 Vdc or 24 Vac nominal, 50/60 Hz
Max. Current Draw	DC: 125 mA; AC: 280 mA
Output	3-wire transmitter; user selectable 4 to 20 mA (clipped & capped)/0-5 V/0-10 V*
Surge Damping	Electronic; 5-second averaging
Test Mode	Overrides output to full-scale (20 mA, 5 V, 10 V)
Zero Adjust	Pushbutton auto-zero & digital input (2-pos terminal block)
Status Indication	Dual-color LED: Green = Normal, Green Blinking = Low > High, Red = Overrange, Red Blinking = Overpressure
Housing Material	White powder-coated aluminum
Fittings	psig: 1/8" NPT female thread, 17 to 4 PH stainless; barg: 1/8" BSPT female thread, 17 to 4 PH stainless
PRESSURE RANGES (SELECTABLE)	
0 to 50 psig (Gauge)	0 to 5/10/25/50 psid (Differential)
0 to 100 psig (Gauge)	0 to 10/20/50/100 psid (Differential)
0 to 250 psig (Gauge)	0 to 25/50/125/250 psid (Differential)
0 to 3.5 barg (Gauge)	0.35/0.7/1.75/3.5 bard (Differential)
0 to 7.0 barg (Gauge)	0.7/1.4/3.5/7.0 bard (Differential)
0 to 17.0 barg (Gauge)	1.7/3.4/8.5/17.0 bard (Differential)
0 to 17.0 barg (Gauge) SENSOR	1.7/3.4/8.5/17.0 bard (Differential)
0 to 17.0 barg (Gauge) SENSOR Accuracy @ 25 °C**	1.7/3.4/8.5/17.0 bard (Differential) Range A, B, C: ±1% F.S.; Range D: ±2% F.S.***
0 to 17.0 barg (Gauge) SENSOR Accuracy @ 25 °C** Long Term Stability	1.7/3.4/8.5/17.0 bard (Differential) Range A, B, C: ±1% F.S.; Range D: ±2% F.S.*** ±0.25% per year
0 to 17.0 barg (Gauge) SENSOR Accuracy @ 25 °C** Long Term Stability Media Compatibility	1.7/3.4/8.5/17.0 bard (Differential) Range A, B, C: ±1% F.S.; Range D: ±2% F.S.*** ±0.25% per year Media compatible with 17 to 4 PH stainless steel
0 to 17.0 barg (Gauge) SENSOR Accuracy @ 25 °C** Long Term Stability Media Compatibility Proof Pressure	1.7/3.4/8.5/17.0 bard (Differential) Range A, B, C: ±1% F.S.; Range D: ±2% F.S.*** ±0.25% per year Media compatible with 17 to 4 PH stainless steel Max. 2x F.S. range
0 to 17.0 barg (Gauge) SENSOR Accuracy @ 25 °C** Long Term Stability Media Compatibility Proof Pressure Burst Pressure	1.7/3.4/8.5/17.0 bard (Differential) Range A, B, C: ±1% F.S.; Range D: ±2% F.S.*** ±0.25% per year Media compatible with 17 to 4 PH stainless steel Max. 2x F.S. range Max. 5x F.S. range

The jumper-selectable output switch for normal (4 to 20 mA) or reverse (20 to 4 mA) operation provides application flexibility

# Rugged

Rugged, die-cast enclosure provides NEMA 4 sealing

# High stability

Jumper-controlled electronic surge dampening for high stability

### **APPLICATIONS**

- Monitoring and controlling pump differential pressure
- Chiller/boiler differential pressure drop

# Jumper-selectable Switch-selectable

Switch-selectable pressure ranges...fewer models to order and stock

# **Zero** calibration

Pushbutton and remote zero adjustment...maintain accuracy and reduce callbacks with automatic zero calibration

CW/HW system differential pressure

Temperature Compensated Range	0 to 50 °C (32 to 122 °F); TC Zero < $\pm$ 1.5% of product F.S. per sensor ; TC Span< $\pm$ 1.5% of product F.S. per sensor, (2 sensors per unit)
Media Temp Limits	-20 to 85 °C (-4 to 185 °F); 0 to 90% RH non-condensing
Product Operating Environment	-10 to 55 °C (14 to 130 °F); 0 to 90% RH non-condensing
WARRANTY	
Limited Warranty	5 years
AGENCY APPROVALS	



\*Minimum input voltage for 4 to 20 mA operation:  $250 \Omega$  loop (1 to 5 V) = 12 Vdc; 500  $\Omega$  loop (2 to 10 V) = 15 Vdc; Minimum input voltage for volt operation: 0 to 5 Vdc output = 12 Vdc; 0 to 10 Vdc output = 15 Vdc.

\*\*Accuracy combines linearity, hysteresis, and repeatability.

\*\*\*FS is defined as full span of selected range in bi-directional mode.

EMC Conformance - CE option: Low voltage directive 2014/35/EU; EMC directive 2014/30/EU. EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1 specification requirements).

† The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.



#### WIRING DIAGRAM



noise or turbulence

#### **ORDERING INFORMATION**



\* Select operational range according to maximum gauge pressure, NOT differential pressure.

Example: High gauge pressure=90 psig, Select 100 psig model (04).

\*\*Barg models use BSPT threads on sensor fittings

\*\*\*Not available with barg units



