PW SERIES

Jumper Selectable Port Swap Feature





PWxxxBP

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.

The optional pre-assembled bypass valve is designed for easy maintenance and one-step installation.

SPECIFICATIONS

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	1/8" NPT female thread, 17 to 4 PH stainless steel	
PRESSURE RANGES (SELECTARLE)		

PRESSURE RANGES (SELECTABLE)

SENSOR	
0 to 250 psig (Gauge)	0 to 25/50/125/250 psid (Differential)
0 to 100 psig (Gauge)	0 to 10/20/50/100 psid (Differential)
0 to 50 psig (Gauge)	0 to 5/10/25/50 psid (Differential)

SENSOR	
Accuracy @ 25 °C**	Range A, B, C: ±1% F.S.; Range D: ±2% F.S.***
Long Term Stability	±0.25% per year
Media Compatibility	Media compatible with 17 to 4 PH stainless steel
Proof Pressure	2x max. F.S. range***
Burst Pressure	5x max. F.S. range***
Temperature Compensated Range	0 to 50 °C (32 to 122 °F); TC Zero <±1.5% of product F.S. per sensor; TC Span<±1.5% of product F.S. per sensor, (2 sensors per unit)

Jumper-selectable Switch-selectable

switch for normal (4 to 20 mA) or reverse (20 to 4 mA) operation provides application flexibility

The jumper-selectable output

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

Rugged

Rugged, die-cast enclosure provides NEMA 4 sealing

High stability

Jumper-controlled electronic surge dampening

7ero calibration

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

APPLICATIONS

- Monitoring and controlling pump differential pressure
- · Chiller/boiler differential pressure drop
- CW/HW system differential pressure

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 122 °F); 10 to 90% RH non-condensing
WARRANTY	

Limited Warranty

AGENCY APPROVALS



*Minimum input voltage for 4 to 20 mA operation: $250 \Omega \log (1 \text{ to } 5 \text{ V}) = 12 \text{ Vdc}$; $500 \Omega \log (2 \text{ to } 10 \text{ V}) = 15 \text{ Vdc}$; 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.

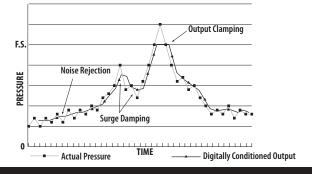
*** FS is defined as full span of selected range in bi-directional mode.

5 years

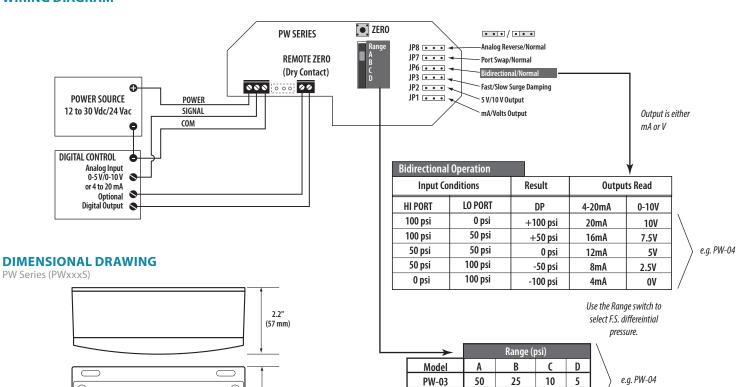
EMC Conformance - Low voltage directive 2014/35/EU; EMC directive 2014/30/EU. EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1 specification requirements).

MICROPROCESSOR PROVIDES DIGITAL SIGNAL CONDITIONING

- Noise rejection reduces fluctuating readings due to noise or turbulence
- Surge damping prevents false alarms by averaging fast peaks



WIRING DIAGRAM



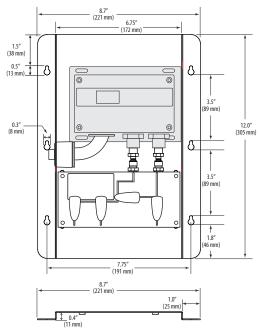
DIMENSIONAL DRAWING

0

0

PW Series with Optional Mounted Bypass Assembly (PWxxxBP)

5.8' (147 mm) LOW



ORDERING INFORMATION

100

250

50

125

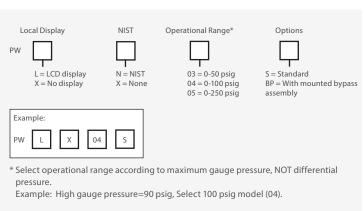
20

50

10 25

PW-04

PW-05



0

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HIGH

(102 mm)