## **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**

### **GENERAL**

	CL 2.42+ 201/1 241/ : 1.50/6011
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)

### **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	Max. 2x F.S. range
Burst Pressure	Max. 5x F.S. range

# Jumper-selectable Switch-selectable

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

Rugged, die-cast enclosure provides NEMA 4 sealing

Rugged

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

## **7ero** calibration

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

# High stability

Jumper-controlled electronic surge dampening for high stability

### **APPLICATIONS**

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

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)
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:  $250 \Omega \log (1 \text{ to 5 V}) = 12 \text{ Vdc}$ ; 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.

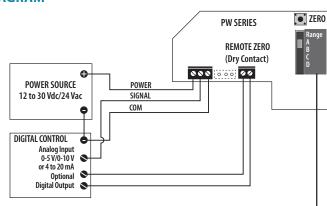


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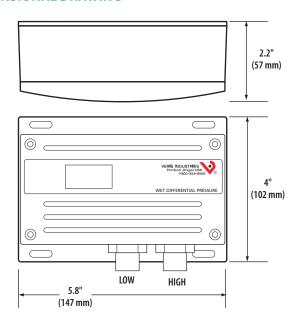
Output is either

mA or V

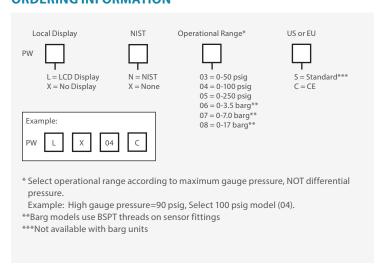
### **WIRING DIAGRAM**



### **DIMENSIONAL DRAWING**



## **ORDERING INFORMATION**



### **Bidirectional Operation Input Conditions** Result **Outputs Read** HI PORT LO PORT DP 4-20mA 0-10V 100 psi 0 psi +100 psi 20mA 10V 100 psi 50 psi +50 psi 16mA 7.5V e.g. PW-04 50 psi 50 psi 0 psi 5V 12mA 100 psi 50 psi -50 psi 8mA 2.5V 100 psi 0 psi -100 psi 4mA 0٧ 17.0 bar 0 bar +17.0 bar 20mA 10V 17.0 bar 8.5 bar +8.5 bar 16mA 7.5V e.g. PW-08 8.5 bar 8.5 bar 0 bar 12mA 5V 17.0 bar 8.5 bar -8.5 bar 8mA 2.5V 17.0 bar -17.0 bar 0 bar 4mA Use the Range switch to select F.S. differeintial pressure. Range (psi) Model Α В C D e.g. PW-04 PW-03 50 25 10 5 PW-04 100 50 20 10 PW-05 250 125 50 25 Model D Α B C 0.35 e.g. PW-08 3.5 1.75 0.7 PW-06 PW-07 7.0 3.5 0.7 1.4 PW-08 17.0 8.5 3.4 1.7

•••/••• Analog Reverse/Normal

Port Swap/Normal

5 V/10 V Output

mA/Volts Output

Bidirectional/Normal

Fast/Slow Surge Damping

JP8 • • • •

JP7 • • •

JP6 •••

JP1 • • •

JP3 •••• JP2 ••••

### MICROPROCESSOR PROVIDES DIGITAL SIGNAL CONDITIONING

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

