Wet Media Differential Pressure Transducer

PW Series



Jumper-Selectable Port Swap Feature

FEATURES

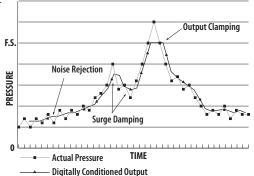
 The jumper-selectable output switch for normal (4-20mA) or reverse (20-4mA) operation provides application flexibility

PW

- Rugged, die-cast enclosure provides NEMA 4 sealing
- Jumper-selectable port swap feature eliminates costly replumbing when the high and low ports are improperly plumbed...change the jumper position from normal to swap – problem solved!
- Switch-selectable pressure ranges...fewer models to order and stock
- Pushbutton and remote zero adjustment...maintain accuracy and reduce callbacks with automatic zero calibration
- Jumper-controlled electronic surge dampening for high stability
- Pushbutton zero calibration no trim pots to adjust

DESCRIPTION

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.



Microprocessor provides digital signal conditioning

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

SPECIFICATIONS



Input Power 12 to 30VDC/24VAC nominal Max. Current Draw DC: 125mA; AC: 280mA Output 3-wire transmitter; user selectable 4-20mA (clipped and capped)/0-5V/0-10V*	* *
Output 3-wire transmitter; user selectable 4-20mA (clipped and capped)/0-5V/0-10V*	* *
(clipped and capped)/0-5V/0-10V*	* *
A 0.0500** B 4 B 0 40/ 50 B B 00/ 50 V	* *
Accuracy @ 25°C** Range A, B, C: ±1% F.S.; Range D: ±2% F.S.*	
Surge Damping Electronic; 5-second averaging	
Test Mode Overrides output to full-scale (20mA, 5V, 10V)	
Fittings psig: 1/8" NPT female thread, 17-4 PH stainles barg: 1/8" BSPT female thread, 17-4 PH stainles	
PRESSURE RANGES (SELECTABLE)	
0-50 psig 0-5/10/25/50 psid	
0-100 psig 0-10/20/50/100 psid	
0-250 psig 0-25/50/125/250 psid	
0-3.5 barg 0.35/0.7/1.75/3.5 bard	
0-7.0 barg 0.7/1.4/3.5/7.0 bard	
0-17.0 barg 1.7/3.4/8.5/17.0 bard	
Product Operating Environment -10° to 55°C (14° to 130°F); 0 to 90% RH noncondensing	
Long Term Stability ±0.25% per year	
Zero Adjust Pushbutton auto-zero & digital input (2-pos terminal bl	ock)
Status Indication Dual-color LED: Green = Normal, Green Blinki = Low > High, Red = Overrange, Red Blinking Overpressure	
Housing Material White powder-coated aluminum	
SENSOR	
Media Compatibility Media compatible with 17-4 PH stainless steel	
Proof Pressure Max. 2x F.S. range	
Burst Pressure Max. 5x 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)	
Media Temp Limits -20° to 85°C (-4° to 185°F); 0 to 90% RH non-conden	sing

^{*}Minimum input voltage for 4-20mA operation: $250\,\Omega$ loop (1-5V) = 12VDC; $500\,\Omega$ loop (2-10V) = 15VDC; Minimum input voltage for volt operation: 0-5VDC output = 12VDC; 0-10VDC output = 15VDC.

APPLICATIONS

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

VERIS INDUSTRIES IM

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^{**}Accuracy combines linearity, hysteresis, and repeatability.

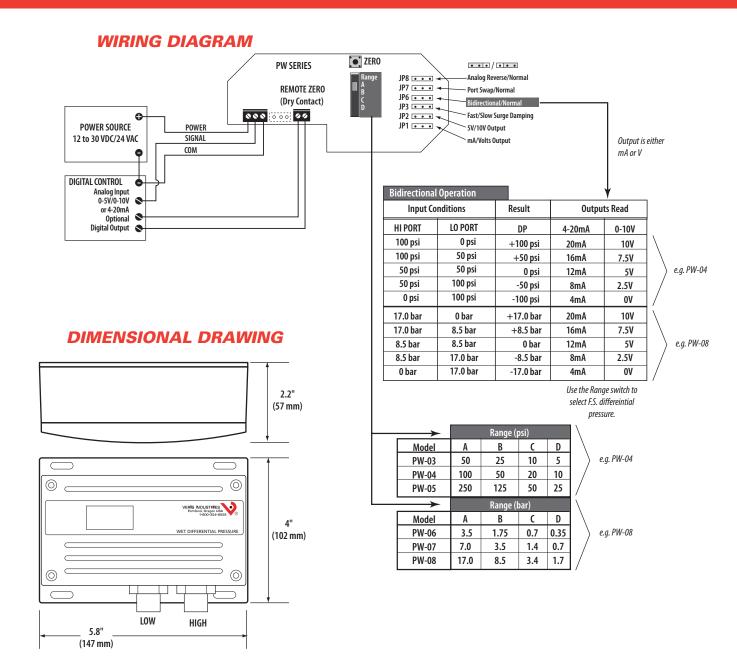
^{***}FS is defined as full span of selected range in bi-directional mode.

EMC Conformance: Low voltage directive 2006/95/EC; EMC directive 2004/108/EC.

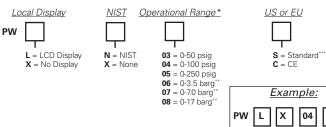
EMC Special Note: Connect this product to a DC distribution network or an AC/

DC power adaptor with proper surge protection (EN 61000-6-1:2007 specification requirements).

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ORDERING INFORMATION



ACCESSORIES

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Bypass Valve assemblies (AA14A) PW installed on bypass valve manifold (AA16A) Snubbers (AA11, AA12), Steam siphon (AA13)





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* 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

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^{***}Not available with barg units