

Wet Media Differential Pressure Transducer

Jumper-Selectable Port Swap Feature

APPLICATIONS

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

FEATURES

- The jumper-selectable output switch for normal (4-20mA) or reverse (20-4mA) operation provides application flexibility
- Rugged, die-cast enclosure provides NEMA 4 sealing

Exceptional accuracy and stability

- Jumper-controlled electronic surge dampening for high stability
- Pushbutton zero calibration no trim pots to adjust

Lowest total installed cost

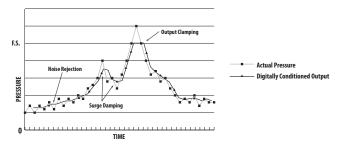
- Jumper-selectable port swap feature eliminates costly replumbing when the high and low ports are improperly plumbed...change the jumper position from normal to swap — problem solved!
- Dual sensor design eliminates the requirement for a bypass valve assembly in most applications
- Switch-selectable pressure ranges...fewer models to order and stock
- Pushbutton and remote zero adjustment...maintain accuracy and prevent callbacks with automatic zero calibration



DESCRIPTION



The **PW Series** wet/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

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)

psig: 1/8" NPT female thread, 17-4 PH stainless; barg: 1/8" BSPT female thread, 17-4 PH stainless

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

SPECIFICATIONS

of Edit Idahlol (0	
Input Power	12 to 30VDC/24VAC nominal
Maximum Current Draw	DC: 125mA; AC: 280mA
Output	3-wire transmitter; user selectable 4-20mA, (clipped and capped)/0-5V/0-10V†
Accuracy @ 25°C*	Range A, B, C: $\pm 1\%$ F.S.; Range D: $\pm 2\%$ F.S.**
Surge Damping	Electronic; 5-second averaging
Test Mode	Overrides output to full-scale (20mA, 5V, 10V)
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, non-condensing
Long Term Stability	$\pm 0.25\%$ per year
Zero Adjust	Pushbutton auto-zero and digital input (2-pos terminal block)
Status Indication	$\label{eq:decomposition} Dual-color LED: Green = Normal, Green Blinking = Low > High, Red = Overrange, Red Blinking = Overpressure$
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

 \overline{M} inimimim input voltage for 4-20mA operation: 250 ohm loop (1-5V) = 12 VDC; 500 ohm loop (2-10V) = 15 VDC; Minimim input voltage for volt operation: 0-5VDC output = 12 VDC; 0-10VDC output = 15 VDC.

*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.

Temperature Compensated Range

Media Temperature Limits

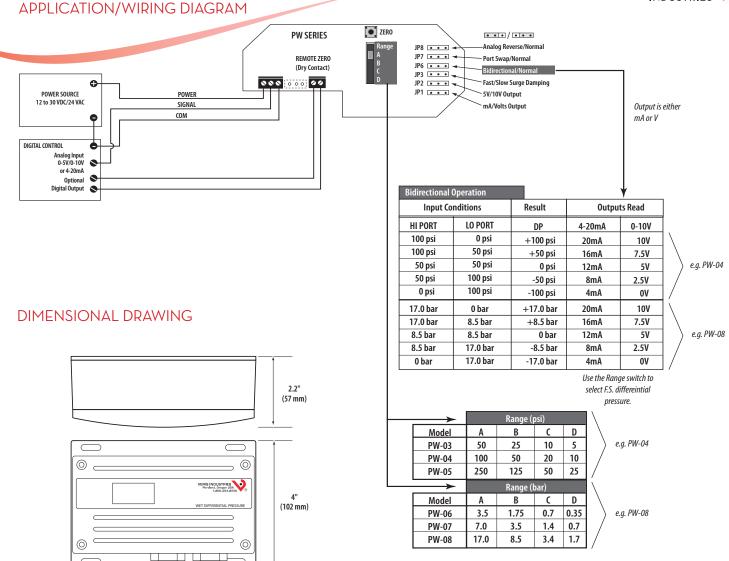
Fittings

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).

800.354.8556 +1 503.598.4564 www.veris.com ©2010 Veris Industries

-20° to 85°C (-4° to 185°F); 0 to 90% RH non-condensing





ORDERING INFORMATION (€ Available Operational Range ¹ US or EU Local Display NIST PW $\mathbf{L} = \mathsf{LCD}$ Display N = NIST03 = 0-50 psig $S = Standard^3$ $\mathbf{X} = \text{No Display}$ $\mathbf{C} = \mathbf{CE}$ $\mathbf{X} = \text{None}$ 04 = 0-100 psig**05** = 0-250 psig $06 = 0-3.5 \text{ barg}^2$ $07 = 0-7.0 \text{ barg}^2$ Example: $08 = 0-17 \text{ barg}^2$ | X | 04

LOW

(147 mm)

HIGH

ACCESSORIES

Bypass Valve assemblies (AA14A, AA16A), snubbers (AA11, AA12), steam siphon (AA13)

¹Select operational range according to maximum gauge pressure, NOT differential pressure. Example: High gauge pressure=90 psig, Select 100 psig model (04).

² BARG models use BSPT threads on sensor fittings.

³Not available with barg units