

# Wet Media Differential Pressure Transducer

4-20 mA, 2-Wire Device

## 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
- Selectable differential units: psid or bard

### Exceptional accuracy and stability

- Dual sensor design for improved overpressure tolerance... eliminates the requirement for a bypass valve assembly in most applications
- Jumper-controlled electronic surge dampening for high stability
- Pushbutton zero calibration – no trim pots to adjust.....maintain accuracy and prevent callbacks with automatic zero calibration

### 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!
- Switch-selectable pressure ranges...fewer models to order and stock
- LCD displays high pressure, low pressure, and differential pressure with easy readability

## SPECIFICATIONS

<b>Input Power</b>	12 to 24VDC, loop powered
<b>Maximum Current Draw</b>	29mA
<b>Output</b>	2-wire transmitter; user selectable 4-20mA, (clipped and capped)
<b>Accuracy @ 25°C*</b>	Range A, B, C: ±1% F.S.; Range D: ±2% F.S.**
<b>Surge Damping</b>	Electronic; 5-second averaging
<b>Pressure Ranges (Selectable):</b>	
0-50 psi (0-3.45 bar)	0-5/10/25/50 psid (0-0.34/0.69/1.72/3.45 bard)
0-100 psi (0-6.89 bar)	0-10/20/50/100 psid (0-0.69/1.38/3.45/6.89 bard)
0-250 psi (0-17.24 bar)	0-25/50/125/250 psid (0-1.72/3.45/8.62/17.24 bard)
<b>Product Operating Environment</b>	-10° to 55°C (14° to 130°F); 0 to 90%RH, non-condensing
<b>Long Term Stability</b>	±0.25% per year
<b>Zero Adjust</b>	Pushbutton auto-zero
<b>Housing Material</b>	White powder-coated aluminum
<b>Sensor:</b>	
<b>Media Compatibility</b>	Media compatible with 17-4 PH stainless steel
<b>Proof Pressure</b>	Max. 2x F.S. range
<b>Burst Pressure</b>	Max. 5x F.S. range
<b>Temperature Compensated Range</b>	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)
<b>Media Temperature Limits</b>	-20° to 85°C (-4° to 185°F); 0 to 90% RH non-condensing
<b>Fittings</b>	1/8" NPT female thread, 17-4 PH stainless

\* 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).

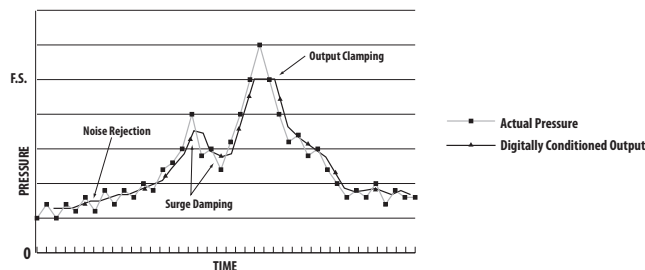


PW2



## DESCRIPTION

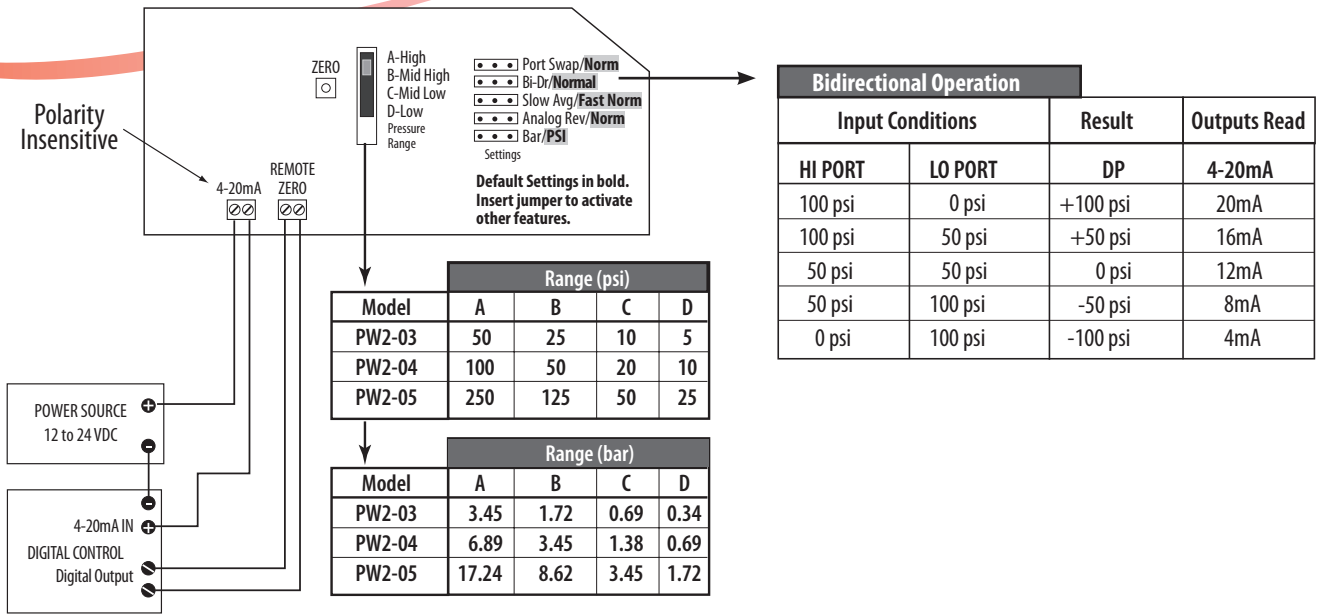
The PW2 Series 2-wire, 4-20 mA wet/wet pressure transducers incorporate microprocessor profiled sensors for exceptional accuracy and reliability. Easy to use and designed to provide exceptional installation savings, the PW2 Series is ideal for measuring pressure across pumps, filters, heat exchangers, compressors, and other non-corrosive wet media applications.



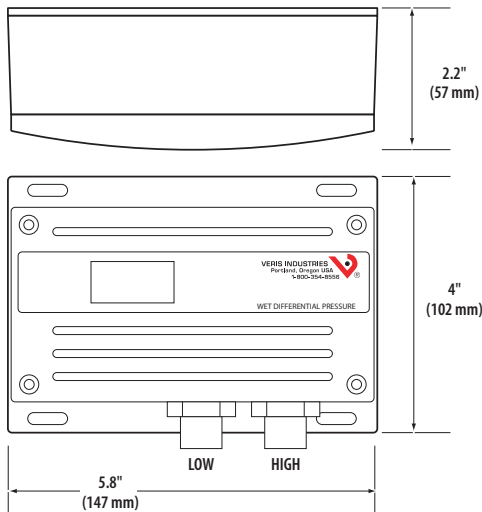
### Microprocessor provides digital signal conditioning

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

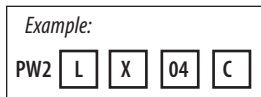
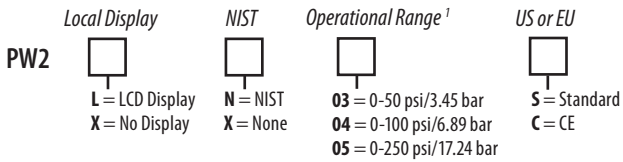
APPLICATION/WIRING DIAGRAM



DIMENSIONAL DRAWING



ORDERING INFORMATION Available



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

ACCESSORIES

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