Pressure



Wet Media Differential Pressure Transducer

PW2 Series



4-20 mA, 2-Wire Device

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
- 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 reduce callbacks with automatic zero calibration
- Jumper-selectable port swap feature eliminates costly replumbing 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

DESCRIPTION

The **PW2 Series** 2-wire, 4-20mA 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

APPLICATIONS

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

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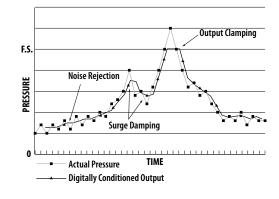
Input Power	Class 2; 12 to 24VDC, loop powered (polarity insensitive)			
Maximum Current Draw	29mA			
Output	2-wire transmitter; user selectable 4-20mA (clipped and capped)*			
Accuracy @ 25°C**	Range A, B, C: ±1% F.S.; Range D: ±2% F.S.***			
Surge Damping	Electronic; 5-second averaging			
Fittings	1/8" NPT female thread, 17-4 PH stainless			
PRESSURE RANGES (SELECTABLE)				
0-50 psi (0-3.45 barg) (Gauge)	0-5/10/25/50 psid (0-0.34/0.69/1.72/3.45 bard) (Differential)			
0-100 psig (0-6.89 barg) (Gauge)	0-10/20/50/100 psid (Differential) (0-0.69/1.38/3.45/6.89 bard) (Differential)			
0-250 psi (0-17.24 bar) (Gauge)	0-25/50/125/250 psid (Differential) (0-1.72/3.45/8.62/17.24 bard) (Differential)			
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 terminals			
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 Temperature Limits	-20° to 85°C (-4° to 185°F); 0 to 90% RH non-condensing			

* Minimum input voltage: 250 Ω loop = 12VDC; 500 Ω loop = 17VDC **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 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).



Microprocessor provides digital signal conditioning

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



Outputs Read

4-20mA

20mA

16mA

12mA

8mA

4mA

Result

DP

+100 psi

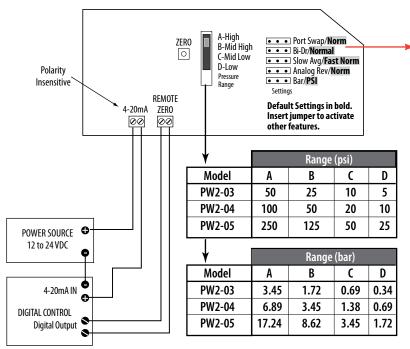
+50 psi

0 psi

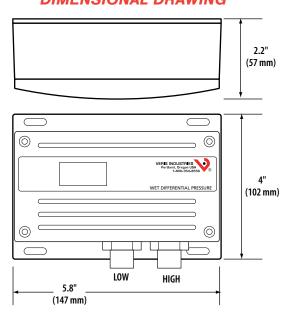
-50 psi

-100 psi

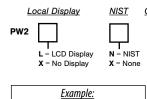
WIRING DIAGRAM



DIMENSIONAL DRAWING



ORDERING INFORMATION



X | 04





Available

Bypass valve assemblies (AA14A)

ACCESSORIES

PW installed on bypass valve manifold (AA16A) Snubbers, brass, 1/8" NPT (AA11) Snubbers, stainless steel, 1/8" NPT (AA12) Steam siphon (AA13)

Bidirectional Operation

LO PORT

0 psi

50 psi

50 psi

100 psi

100 psi

Input Conditions

HI PORT

100 psi

100 psi

50 psi

50 psi

0 psi





AA14A

AA11/AA12

*Select operational range according to maximum gauge pressure, NOT differential pressure.

Example: High gauge pressure=90 psig, Select 100 psig model (04).

С

PW2 L

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