PW2 SERIES

4 to 20 mA, 2-Wire Device





PW2xxxBP

The PW2 Series 2-wire, 4 to 20 mA 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.

The optional pre-assembled bypass valve is designed for easy maintenance and a one-step installation.

SPECIFICATIONS

GENERAL

Input Power Class 2; 12 to 24 Vdc, loop powered (polarity insensitive)				
Maximum Current Draw 29 mA				
Output 2-wire transmitter; user selectable 4 to 20 mA (clipped & capped)*				
Surge Damping Electronic; 5-second averaging				
Zero Adjust Pushbutton auto-zero terminals				
Housing Material White powder-coated aluminum				
PRESSURE RANGES (SELECTABLE)				
0 to 50 psi (0 to 3.45 barg) 0-5/10/25/50 psid (0-0.34/0.69/1.72/3.45 bard) (Gauge) (Differential)				
0 to 100 psig (0 to 6.89 0-10/20/50/100 psid (Differential) barg) (Gauge) (0-0.69/1.38/3.45/6.89 bard) (Differential)				
0 to 250 psi (0 to 17.24 bar) 0-25/50/125/250 psid (Differential) (Gauge) (0-1.72/3.45/8.62/17.24 bard) (Differential)				
SENSOR				
Accuracy @ 25 °C** Range A, B, C: ±1% F.S.; Range D: ±2% F.S.***				
Media Compatibility Media compatible with 17-4 PH stainless steel				
Long Term Stability ±0.25% per year				
Proof Pressure Max. 2x F.S. range				
Burst Pressure Max. 5x F.S. range				
Temperature 0 to 50 °C (32 to 122 °F); TC Zero <±1.5% of				
Compensated Range product F.S. per sensor ; TC Span<±1.5% of product F.S. per sensor, (2 sensors per unit)				

Jumper selectable Dual sensor

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

Rugged

Rugged, die-cast enclosure provides NEMA 4 sealing

Selectable

Selectable differential units: psid or bard

APPLICATIONS

Produ

Enviro WAR Limite

- Monitoring and controlling pump differential pressure
- Chiller/boiler differential pressure drop

uct Operating onment	-10 to 55 °C (14 to 130 °F); 0 to 90% RH non-condensing	
RANTY		
ed Warranty	5 years	
NCY APPROVALS		
-		

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

MICROPROCESSOR PROVIDES DIGITAL SIGNAL CONDITIONING

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

Dual sensor design for improved

eliminates the requirement for

a bypass valve assembly in most

overpressure tolerance...

High stability

surge dampening for high

Jumper-controlled electronic

Zero calibration

trim pots to adjust...maintain

accuracy and reduce callbacks

with automatic zero calibration

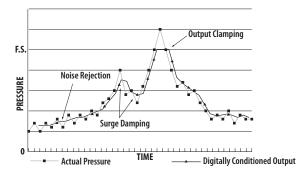
CW/HW system differential

pressure

Pushbutton zero calibration - no

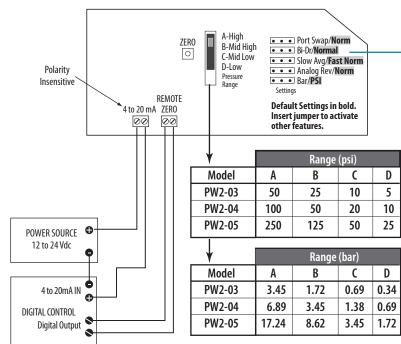
applications

stability





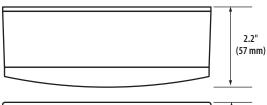
WIRING DIAGRAM

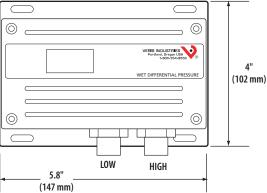


Bidirectional Operation				
Input Conditions		Result	Outputs Read	
HI PORT	LO PORT	DP	4-20mA	
100 psi	0 psi	+100 psi	20mA	
100 psi	50 psi	+50 psi	16mA	
50 psi	50 psi	0 psi	12mA	
50 psi	100 psi	-50 psi	8mA	
0 psi	100 psi	-100 psi	4mA	

DIMENSIONAL DRAWING

PW2xxxS

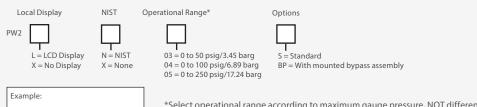




ORDERING INFORMATION

04

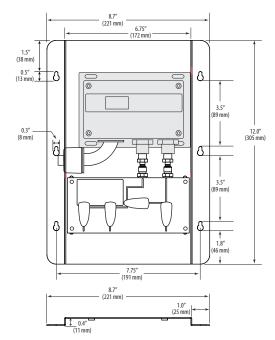
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*Select operational range according to maximum gauge pressure, NOT differential pressure. Example: High gauge pressure=90 psig, Select 100 psig model (04).

DIMENSIONAL DRAWING

PW2xxxBP



PW2 L

