## **PW2 SERIES**

4 to 20 mA, 2-Wire Device



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

### **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 barg) (Gauge)	0-10/20/50/100 psid (Differential) (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 Compensated Range	0 to 50 °C (32 to 122 °F); TC Zero $<\pm 1.5\%$ of product F.S. per sensor; TC Span $<\pm 1.5\%$ 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		
Product Operating Environment	-10 to 55 °C (14 to 130 °F); 0 to 90% RH non-condensing		

# 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

Dual sensor design for improved overpressure tolerance... eliminates the requirement for a bypass valve assembly in most applications

# Rugged

Rugged, die-cast enclosure provides NEMA 4 sealing

# Selectable

Selectable differential units: psid or bard

# High stability

Jumper-controlled electronic surge dampening for high stability

### Zero calibration

Pushbutton zero calibration - no trim pots to adjust...maintain accuracy and reduce callbacks with automatic zero calibration

### **APPLICATIONS**

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

#### WARRANTY

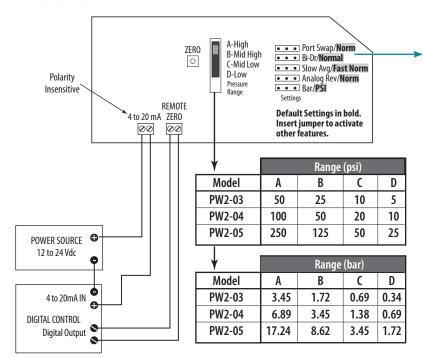
Limited Warranty	5 years	
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### **AGENCY APPROVALS**



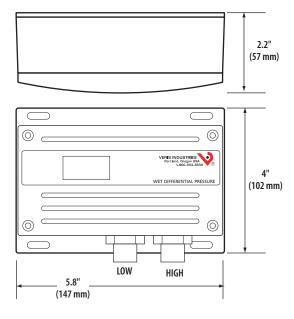
- \* Minimum input voltage:  $250 \Omega \log = 12 \text{ Vdc}$ ;  $500 \Omega \log = 17 \text{ Vdc}$
- \*\*Accuracy combines linearity, hysteresis, and repeatability.
- \*\*\*FS is defined as full span of selected range in bi-directional mode. EMC Conformance - CE option: Low voltage directive 2014/35/EU; 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).

### **WIRING DIAGRAM**



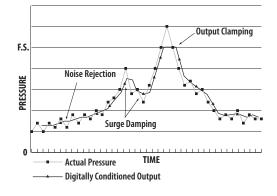
Bidirectional Operation				
Input Conditions		Result	Outputs Read	
HI PORT	LO PORT	DP	4-20mA	
100 psi	0 psi	+100 psi	20mA	
100 psi	50 psi	+50 psi	16mA	
50 psi	50 psi	0 psi	12mA	
50 psi	100 psi	-50 psi	8mA	
0 psi	100 psi	-100 psi	4mA	

### **DIMENSIONAL DRAWING**



### **MICROPROCESSOR PROVIDES DIGITAL SIGNAL** CONDITIONING

- Noise rejection reduces fluctuating readings due to noise or turbulence
- Surge damping prevents false



### **ORDERING INFORMATION**

