

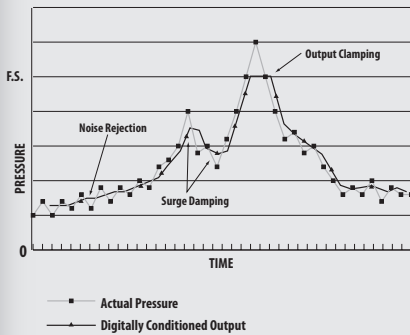
**JUMPER-SELECTABLE
PORT SWAP FEATURE**

**5 Year
Warranty**

PW2



2-wire, 4-20mA pressure transducer. LCD display toggles between hi-port, low-port, and differential pressure; loop powered



Microprocessor provides digital signal conditioning

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

Wet Media Differential Pressure Transducer

The PW2 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 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

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
- Jumper-selectable psi or bar units...highest level of application flexibility

Exceptional accuracy and stability

- Dual sensor design for improved overpressure tolerance
- 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

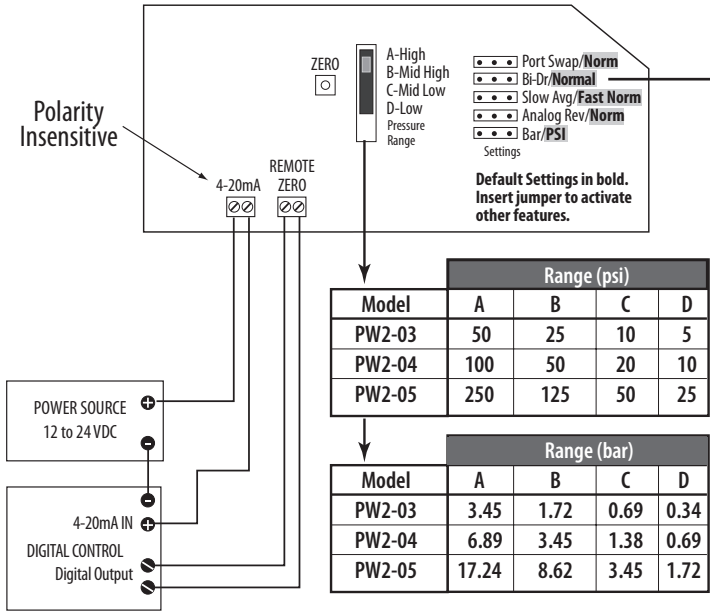
SPECIFICATIONS

Input Power	12 to 24VDC, loop powered
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 Dampening	Electronic; 5-second averaging
<i>Pressure Ranges (Selectable):</i>	
0-50 psi (0-3.45 bar)	0-5/10/25/50 psid (0-0.34/0.69/1.72/3.45 bar)
0-100 psi (0-6.89 bar)	0-10/20/50/100 psid (0-0.69/1.38/3.45/6.89 bar)
0-250 psi (0-17.24 bar)	0-25/50/125/250 psid (0-1.72/3.45/8.62/17.24 bar)
Product Operating Environment	-10° to 55°C (-140° to 130°F); 0 to 90%RH, non-condensing
Long Term Stability	±0.25% per year
Zero Adjust	Pushbutton auto-zero
Housing Material	White powder-coated aluminum
<i>Sensor:</i>	
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
Fittings	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.

APPLICATION/WIRING DIAGRAMS



Bidirectional Operation

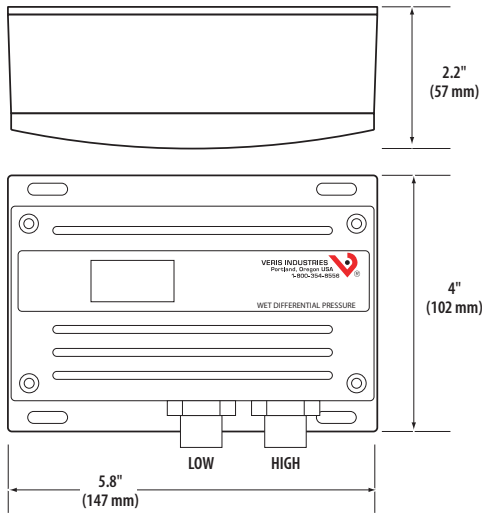
Output is mA only.
Example: PW2-04

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

Model	Range (psi)			
	A	B	C	D
PW2-03	50	25	10	5
PW2-04	100	50	20	10
PW2-05	250	125	50	25

Model	Range (bar)			
	A	B	C	D
PW2-03	3.45	1.72	0.69	0.34
PW2-04	6.89	3.45	1.38	0.69
PW2-05	17.24	8.62	3.45	1.72

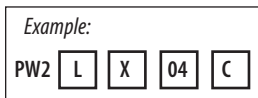
DIMENSIONAL DRAWINGS



ORDERING INFORMATION



- PW2**
- Local Display**
 L = LCD Display
 X = No Display
- NIST**
 N = NIST
 X = None
- Operational Range¹**
 03 = 0-50 psi/3.45 bar
 04 = 0-100 psi/6.89 bar
 05 = 0-250 psi/17.24 bar
- US or EU**
 S = Standard
 C = CE



¹ 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, snubbers, steam siphon... see page 218.