PWR SERIES

3-Wire Device, User-Selectable Output

PWR

Armor cable

Armor cable or conduit connector minimizes the need for field customization

Zero calibration

Pushbutton zero calibration – no trim pots to adjust…maintain accuracy and prevent callbacks with automatic zero calibration

Lower costs

Remote probes reduce need for plumbing or bypass assemblies… lower costs and reduced labor for installation

Switch-selectable

Switch-selectable pressure ranges…fewer models to order and stock

The PWR Series remote wet media pressure transducers allow remote pressure sensing capability using existing plumbing runs. With no need to run plumbing lines all the way to the transducer, the installation time and cost is greatly reduced. Select either armored (6 ft.) or shielded (10 or 20 ft.) cable, depending on the application.

APPLICATIONS

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

SPECIFICATIONS

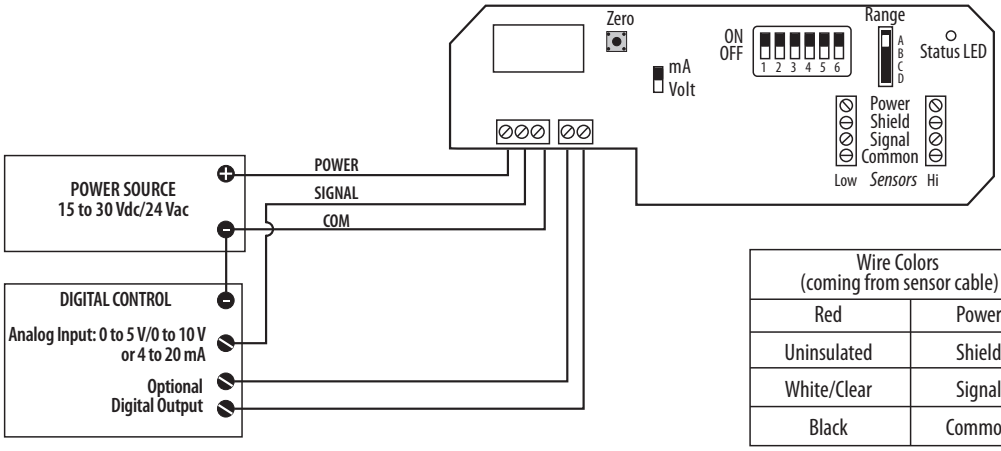
GENERAL	
Input Power	Class 2; 15 to 30 Vdc, 24 Vac nom. 50/60 Hz*
Maximum Current Draw	DC: 125 mA; AC: 280 mA
Output	3-wire transmitter; user-selectable 4 to 20mA/ 0 to 5 V/0 to 10 V
Status Indication	Dual color LED
Surge Damping	Electronic; 1 or 5 second averaging
Zero Adjust	Pushbutton auto-zero and digital input (2-position terminal block)
Fittings	1/4" NPT male thread, stainless steel 17-4 PH Overall thread length: 0.5946" (conforms to ANSI/ASME B1.20.1 standard)
SENSOR	
Media Compatibility	17-4 PH stainless steel
Proof Pressure	2x max. F.S. range**
Burst Pressure	5x max. F.S. range**
Accuracy at 25 °C***	Ranges A and B: ±1% F.S. typical; Range C: ±1.5% F.S. typical; Range D: ±2% F.S. typical. (For less than or equal to 20 ft. (6.1 m) cable length)
Long Term Stability	±0.25%
Zero Offset (Bidirectional and Port Swap Modes Only)	±0.5%
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

PRESSURE RANGES	
0 to 50 psig (Gauge)	5/10/25/50 psid (Differential)
0 to 100 psig (Gauge)	10/20/50/100 psid (Differential)
0 to 250 psig (Gauge)	25/50/125/250 psid (Differential)
OPERATING CONDITIONS	
Sensor Operating Range	-20 to 85 °C (-4 to 185 °F)
Operating Environment	-10 to 50 °C (14 to 122 °F); 10 to 90% RH non-condensing
WARRANTY	
Limited Warranty	5 years
COMPLIANCE INFORMATION	
Approvals	RoHS, CE, NEMA4, IP65 at sensor

CE†

*VFD systems and system wiring generate fields that can disrupt electrical devices. Ensure that these fields are minimized and are not affecting the sensor or sensor wiring.
**F.S. is defined as full span of selected range.
***Accuracy combines linearity, hysteresis, and repeatability.
† The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.

WIRING DIAGRAM



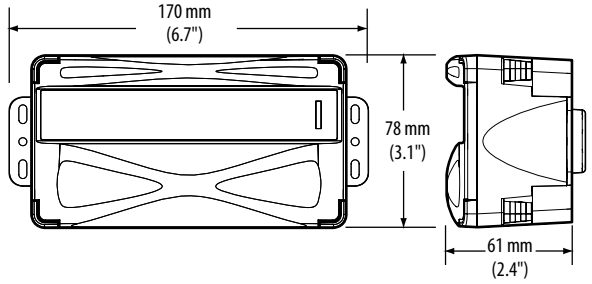
Wire Colors (coming from sensor cable)	
Red	Power
Uninsulated	Shield
White/Clear	Signal
Black	Common

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

DIP Switches		
Num	Function	Off/On[1]
1	Damping	Fast/Slow
2	Test	Operate/Test
3	Mode	Normal/Bidirec.
4	Analog	Normal/Reverse
5	Port	Normal/Swap
6	Voltage Out[2]	0 to 10 V/0 to 5 V

1. "Off" position is the default setting for all DIP switches.
2. Ignored in mA mode.

DIMENSIONAL DRAWING



ORDERING INFORMATION

	Display	NIST	Operational Range*	Media	Cable Length	Cable
PWR	L	X		S		
	= LCD Display	= None	03 = 0-50 psig 04 = 0-100 psig 05 = 0-250 psig	= Water	006 = 6 ft. (1.8 m) 010 = 10 ft. (3.1 m) 020 = 20 ft. (6.1 m)	Blank = Standard** A = Armored***

Example:

PWRLX | 03 | S | 020 | A

* Select operational range according to maximum gauge pressure, NOT differential pressure.
Example: High gauge pressure=90 psig, Select 100 psig model (04).
** Standard cable available only in 10 ft and 20 ft lengths.
*** Armored cable available only in 6 ft length.
Note: Extension of total cable length greater than 20 feet may result in reduced accuracy.

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