

## PWR SERIES

3-Wire Device, User-Selectable Output



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.

### 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: $\pm 1\%$ F.S. typical; Range C: $\pm 1.5\%$ F.S. typical; Range D: $\pm 2\%$ F.S. typical. (For less than or equal to 20 ft. (6.1 m) cable length)
Long Term Stability	$\pm 0.25\%$
Zero Offset (Bidirectional and Port Swap Modes Only)	$\pm 0.5\%$
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

### 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

### APPLICATIONS

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

#### 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

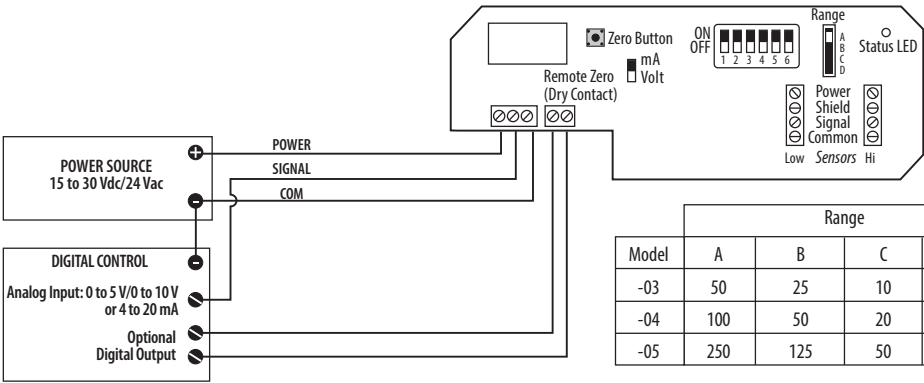
Approvals	RoHS, CE, NEMA4, IP65 at sensor
-----------	---------------------------------



\*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.



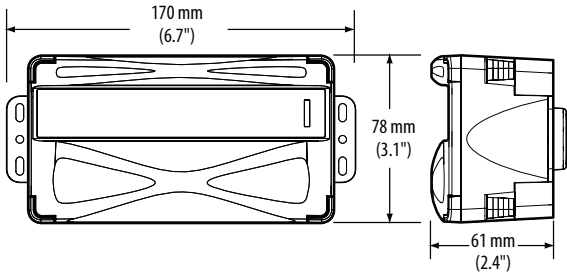
# WIRING DIAGRAM



DIP Switches		
Num	Function	Off/On <sup>1</sup>
1	Damping	Fast/Slow
2	Test	Operate/Test
3	Mode	Normal/Bidirec.
4	Analog	Normal/Reverse
5	Port	Normal/Swap
6	Voltage Out <sup>2</sup>	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  
PWR **L**  
= LCD Display

NIST  
**X**  
= None

Operational Range\*  
**03**  
03 = 0-50 psig  
04 = 0-100 psig  
05 = 0-250 psig

Media  
**S**  
= Water

Cable Length  
**006**  
006 = 6 ft. (1.8 m)  
010 = 10 ft. (3.1 m)  
020 = 20 ft. (6.1 m)

Cable  
**A**  
Blank = Standard\*\*  
A = Armored\*\*\*

Example:

PWRLX **03** **S** **006** **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.

# ACCESSORIES

- Brass Snubber, 1/4" NPT (AA69)
- Stainless Steel Snubber, 1/4" NPT (AA70)
- Pigtail Steam Siphon (AA13)
- 1/4" Ball Valve (AA68)

