



WET TO WET

Differential Pressure Transducer w/ Remote Probes

The A/WPR2 Series Remote Wet to Wet Differential Pressure Transmitter is designed to reduce installation time and provide mounting flexibility, often eliminating the need for additional plumbing. They accurately measure wet media pressures in a variety of applications. Commonly used for monitoring pumps, these devices are also ideal for measuring pressure across filters, heat exchangers and compressors. The A/WPR2's enclosure opens conveniently to allow it to be reconfigured between three additional ranges (see order grid) and outputs of 4 to 20 mA (default), 0 to 5 VDC, or 0 to 10 VDC. The A/WPR2 Series can measure both uni or bi-directional pressure ranges as low as 3 psi and as high as 300 psi, depending on the unit. The A/WPR2 also features a push button auto zero function for remote calibration.

The LCD option will display pressure values for both the High and Low side pressures, a differential pressure value, "OVR" for values over the specified range, "ERROR" for differential pressures out of range, and "ZERO" when the auto-zero is in process.





SPECIFICATIONS

Supply Voltage	4 to 20 mA Output: 250Ω Load: 16 to 36 VDC 500Ω Load: 20 to 36 VDC 0 to 5 / 0 to 10 VDC Output: 16 to 36 VDC, 24 VAC +/- 10%
Supply Current	25 mA maximum (current output), 6 mA maximum (voltage outputs)
Differential Pressure Output	2 wire: Linear 4-20 mA DC Current (default), 3 wire: 0-5 VDC; 0-10 VDC (field selectable)
Output Load Resistance	4 to 20 mA: 500 ohms maximum 0 to 5 / 0 to 10 VDC: 5K ohms minimum
Field Selectable Range/Spans	3, 7.5, 15 & 30 psi (uni and bi-directional) for 30 psi sensors 10, 25, 50 & 100 psi (uni and bi-directional) for 100 psi sensors 30, 75, 150 & 300 psi (uni and bi-directional) for 300 psi sensors
Accuracy	±1.0% FSO (includes linearity, hysteresis and repeatability) ±1.5% for 0-10 & 0-30 psi ranges
Output Update Rate	1 second
Response Time (0-100% FSO)	8 seconds
Thermal Effects	±2.0% FSO from 32 to 140°F (0-60°C)
Proof Pressure	3X F.S (A/WPR2-30 Series) & (A/WPR2-100 Series) 2X F.S. (A/WPR2-300 Series)
Burst Pressure	1500 psi
Operating Temperature	Sensors: -30 to 120°C (-22 to 248°F) Electronics/Housing/Cables: 0 to 75°C (32 to 167°F)
Compensated Temperature Range	32 to 140°F (0 to 60°C)
Operating RH	10 to 90% RH non-condensing
Process Fitting	1/4"-18 NPT Male (304 stainless steel); Pressure Snubber included for light oils/water for WPR2-100
Enclosure Rating	NEMA 4X/IP66
Product Dimensions	Enclosure: (L) 5.10" (W) 3.93" (H) 3.00"

RANGE AND OUTPUT CHART

Series: A/WPR2-30 (Uni-directional)	Default Uni-directional Range: 0-30 psi	Selectable Uni-directional Ranges: 15, 7.5 & 3 psi
Series: A/WPR2-30 (Bi-directional)	Selectable Bi-directional Range: ±30 psi	Selectable Bi-directional Ranges: ±15, ±7.5 & ±3 psi
Series: A/WPR2-100 (Uni-directional)	Default Uni-directional Range: 0-100 psi	Selectable Uni-directional Ranges: 0-50, 25 & 10 psi
Series: A/WPR2-100 (Bi-directional)	Selectable Bi-directional Range: ±100 psi	Selectable Bi-directional Ranges: ±50, ±25 & ±10 psi
Series: A/WPR2-300 (Uni-directional)	Default Uni-directional Range: 0-300 psi	Selectable Uni-directional Ranges: 0-150, 75 & 30 psi
Series: A/WPR2-300 (Bi-directional)	Selectable Bi-directional Range: ±300 psi	Selectable Bi-directional Ranges: ±150, ±75 & ±30 psi

ORDERING

Select a Sensor Series (A), one Wiring Harness (B), & one LCD Option (C). **NOTE:** For maximum line pressures less than 100 psi, you should select the A/WPR2-100 Series and for maximum line pressures between 100 and 300 psi, you should select the A/WPR2-300 Series. The jumpered output range should be selected based upon the maximum expected differential pressure rather than the maximum line pressure. In addition, for applications in which the maximum line pressure is 10 PSI or below with a maximum differential pressure of 5 lbs or less we recommend the use of the A/WP Series Differential pressure with a 3 Valve Manifold for best results.

A Sensor Series	B Wiring Harness	C LCD Option
<input type="radio"/> A/WPR2-30 <input type="radio"/> A/WPR2-100 <input type="radio"/> A/WPR2-300	<input type="radio"/> 10' <input type="radio"/> 20'	<input type="radio"/> ---- (No LCD) <input type="radio"/> LCD

BUILD PART NUMBER

After completing (A), (B) & (C) from the above table, fill in the Part Number Table below. An example part number is offered.

A	B	C
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EXAMPLE: A/WPR2-100 - 10' - LCD

