



Wet to Wet

Differential Pressure Transducer

The A/WP Series is a two-wire wet to wet differential pressure transducer. The A/WP is ideally suited for use with any harsh media, wet or dry, that is compatible with 17-4 PH and 300 series stainless steel. The A/WP may be powered with a 9 to 30 VDC supply voltage and outputs a linear 4 to 20 mA, 0 to 5, or 0 to 10 VDC output signal. To ensure an accurate linear analog output, the WP contains circuitry to provide signal conditioning, reverse polarity protection, and temperature compensation as an integral part of the device. The A/WP pressure transducers are available in ranges from 0 to 1 PSID all the way up to 0 to 100 PSID. Bi-Directional ranges are available. Optional pressure snubbers are also available upon request. (part # A/SS-4-SA-EW)

The A/WP Series is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: www.workaci.com.



Specifications

Supply Voltage VDC	4-20 mA Output Min: $9 + 0.02 \times (\text{Load} + \text{Line})$ Max: $30 + 0.004 \times (\text{Load} + \text{Line})$; 0-5 VDC Output 9 to 30 VDC; 0-10 VDC Output 13 to 30 VDC
Analog Output Signal	4-20 mA, 0-10 VDC*, & 0-5 VDC*
Sensor Accuracy*	+/- 0.25% of FSO @ Constant Temperature
Long Term Stability	+/- 0.5% F.S./1 Year
External Load	4-20 mA : 1K Ω Max. 0-5 & 0-10 VDC : > 5K Ω Min.
Output Impedance	100 Ω
Compensated Temperature Range	-1 to 65°C (30 to 150°F)
Thermal Effects	+/-1.8% /50°C (+/-2%/100°F)
Operating Temperature Range	0 to 175°F (-18 to 80°C)
Operating Humidity Range	10 to 95% RH, non-condensing
Max. Working Pressure	250 psig
Product Dimensions	(H) 2.15" (W) 3.01" (D) 3.05"

*Zero output factory set at 50 mV (+/-25 mV) for 0-5 VDC and 50 mV (+/-50 mV) for 0-10 VDC. Span output set at 5 VDC (+/-25 mV) or 10 VDC (+/-50 mV).

Ordering

Select one Range Type (A), one Pressure Range (B), one Output (C) & one 3-Valve Manifold Option (D).

A Range Type

- ☐ ---- (Unidirectional Span) (Standard)
☐ B (Bi-Directional Span)

B Pressure Range

- ☐ 1 (0 to 1 PSID) or (+/- 1 PSID)
☐ 5 (0 to 5 PSID) or (+/- 5 PSID)
☐ 10 (0 to 10 PSID) or (+/- 10 PSID)
☐ 25 (0 to 25 PSID) or (+/- 25 PSID)
☐ 50 (0 to 50 PSID) or (+/- 50 PSID)
☐ 100 (0 to 100 PSID)

C Output

- ☐ 5 (0 to 5 VDC)
☐ 10 (0 to 10 VDC)
☐ 20 (4 to 20 mA)

D 3-Valve Manifold

- ☐ ---- (No Manifold) (Standard)
☐ 3 (3 Valve Manifold)

Build your part number

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

WP

Sensor Series

A

B

C

D

EXAMPLE: WP - 5 - 10

