



DP2 w/ Conduit Adapter

DP2

Differential Pressure (Uni/Bi-directional) with Pitot Tube Option

The R/DP2 Series is a line of low differential pressure transmitters that are capable of sensing full scale pressure ranges down to 0.1" of water column. Each R/DP2 pressure transmitter utilizes a high-quality Silicon Capacitive sensor to provide long-term stability and performance. Accuracy is $\pm 0.3\%$ of full scale over the compensated temperature range for most ranges (see Pressure Range Chart on reverse side). This is critical for optimizing building pressure. In addition to the requested span, most units are capable of being field adjusted to a maximum of three additional spans by resetting the internal jumpers. This series also offers the option of a preassembled pitot tube for ease of installation.

The R/DP2 Series is covered by an industry-leading Five (5) Year Limited Warranty. The warranty can be found on our OEM's web site, www.workaci.com.

SPECIFICATIONS

Supply Voltage	250 Ohm Load: 15-36 VDC/24 VAC	0-5 VDC: 15-36 VDC/24 VAC (+/-10%)
Supply Voltage	500 Ohm Load: 20-36 VDC/24 VAC	0-10 VDC: 20-36 VDC/24 VAC (+/-10%)
Outputs	2-wire, Linear 4 to 20 mA DC Current	3-wire, 0-5 VDC, 0-10 VDC, or 4-20 mA
Response Time	4ms maximum	
Accuracy	See chart below for Accuracy	
Operating Environment	-10 to 60°C (14 to 140°F) 0-92% RH, non-condensing	
Compensated Temperature Range	10 to 40°C (50 to 104°F)	
Thermal Effects (Shift is relative to 77°F (25°C))	+/-0.139% FSO per °F (+/- 0.25% FSO per °C), for all ranges except DP2-12	
DP2-12 Thermal Effects	+/-0.44% FSO per °F (+/- 0.8% FSO per °C)	
Warm Up Time	15 Minutes	
Proof Pressure	1.0 PSI (either port)	
Burst Pressure	1.5 PSI (either port)	
Media	Dry Air	
Operating Humidity	0 to 95% RH, non-condensing	
Product Dimensions (All DP2 Versions)	(H) 5.78" (W) 3.66" (D) 1.88" Pitot Tube: (L) 7.00"	

PRESSURE RANGE CHART

Series: R/DP2-1	Default Range: +/- 1.0" w.c.	Jumper Selectable: +/- 2.0" w.c.	Accuracy: +/- 0.3%
Series: R/DP2-2	Default Range: +/- 0.5" w.c.	Jumper Selectable: +/- 0.8" w.c.	Accuracy: +/- 0.3%
Series: R/DP2-3	Default Range: +/- 0.25" w.c.	Jumper Selectable: +/- 0.5" w.c.	Accuracy: +/- 0.8%
Series: R/DP2-4	Default Range: 0 to 0.25" w.c.	Jumper Selectable: 0 to 0.5", 0 to 0.4", 0 to 0.3"	Accuracy: +/- 0.3%
Series: R/DP2-5	Default Range: 0 to 0.5" w.c.	Jumper Selectable: 0 to 0.4", 0 to 0.3", 0 to 2.5"	Accuracy: +/- 0.3%
Series: R/DP2-6	Default Range: 0 to 1.0" w.c.	Jumper Selectable: 0 to 0.8", 0 to 0.6", 0 to 0.5"	Accuracy: +/- 0.3%
Series: R/DP2-7	Default Range: 0 to 2.0" w.c.	Jumper Selectable: 0 to 2.5", 0 to 1.5", 0 to 1.25"	Accuracy: +/- 0.3%
Series: R/DP2-8	Default Range: 0 to 3.0" w.c.	Jumper Selectable: 0 to 5.0", 0 to 4.0", 0 to 2.5"	Accuracy: +/- 0.3%
Series: R/DP2-9	Default Range: 0 to 5.0" w.c.	Jumper Selectable: 0 to 4.0", 0 to 3.0", 0 to 2.5"	Accuracy: +/- 0.3%
Series: R/DP2-10	Default Range: 0 to 10.0" w.c.	Jumper Selectable: 0 to 8.0", 0 to 6.0", 0 to 5.0"	Accuracy: +/- 0.8%
Series: R/DP2-11	Default Range: +/- 5" w.c.	Jumper Selectable: +/- 2.5"	Accuracy: +/- 0.5%
Series: R/DP2-12	Default Range: +/- 0.1" w.c.	Jumper Selectable: +/- 0.2"	Accuracy: +/- 0.8%
Series: R/DP2-13	Default Range: 0 to 0.1" w.c.	Jumper Selectable: 0 to 0.2", 0-0.12", 0-0.16"	Accuracy: +/- 0.5%
Series: R/DP2-10U	Default Range: 0 to 10" w.c.	Jumper Selectable: 0 to 1", 0 to 2.5", 0 to 5", 0 to 10"	Accuracy: +/- 1.0%

ORDERING

Select one Differential Pressure Range (A), one Output (B), plus a Pitot Tube option (C) & Conduit Adapter (D) if desired. **NOTE:** If R/DP2-10U is selected as a Differential Pressure Range (A), Output (B) is not required.

A Differential Pressure Range

- ☐ R/DP2-1 ☐ R/DP2-4 ☐ R/DP2-6 ☐ R/DP2-8 ☐ R/DP2-10 ☐ R/DP2-12
☐ R/DP2-2 ☐ R/DP2-5 ☐ R/DP2-7 ☐ R/DP2-9 ☐ R/DP2-11 ☐ R/DP2-13
☐ R/DP2-3 ☐ R/DP2-10U

B Output

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

C Pitot Tube

- ☐ ---- (No Pitot Tube)
☐ PT (Pitot Tube)

D Adapter

- ☐ ---- (None)
☐ C (Adapter)

BUILD 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.

A	B	C	D
EXAMPLE: R/DP2-10 - 20 - PT			

The DP2 enclosure has a UL94-5VA flammability rating.

