



Product Data

A/DP Series Low Differential Pressure Transmitter

Product Description

The A/DP series is a line of low differential pressure transmitters that are capable of sensing full scale ranges down to 0.25" of water column. Each ACI pressure transmitter utilizes a high quality ceramic capacitive sensor to provide long term stability and performance. Variable capacitance sensors have a good signal to noise ratio and are not plagued by temperature drift.

The transmitter electronics provide either a two-wire, linear 4 to 20 mA or a three-wire, 0 to 5 or 0 to 10 VDC output signal. Accuracy is +/- 1% of full scale over the compensated temperature range. The transmitter may be powered by a regulated, +15-36 VDC or 24 VAC supply, and is polarity sensitive. In addition to the requested span, each transmitter is capable of being field adjusted to a maximum of three additional spans by resetting the internal jumpers. A slight zero offset may be needed. This feature provides greater flexibility in the field. Commonly available spans are 0 to 0.25", -0.5 to 0.5", 0 to 1", 0 to 2.0", and 0 to 5".

When used in combination with an A/PT, A/SPT, or A/VPT style pitot tubes, flow can be measured and controlled in ducts. All A/DP low differential pressure transmitters come factory calibrated with a 2 year warranty.

Product Specifications

Supply Voltage	250 Ohm Load: +15-36 VDC / 24VAC 500 Ohm Load: +19-36 VDC / 24 VAC
Output Ranges	2-wire, Linear 4 to 20mA DC Current or 3-wire, 0-5, 0-10 VDC, or 4-20mA
Response Time	15 msec - 63% full scale step
Position effect	2% Null shift from vertical to horizontal
Transmitter Accuracy	+/- 1 of span
Operating Temperature Range	-10 to 60°C (14 to 140°F)
Compensated Temperature Range	10 to 40°C (50 to 104°F)
Linearity	+/- 0.5% of span
Pressure Fittings	1/4" barbed fitting (Brass)
Pressure Overload	Span < 2" H ₂ O
Positive Pressure	5X
Negative Pressure	3X
	Span > 2" H ₂ O
Positive Pressure	5X
Negative Pressure	3X

Air Pressure



Attributes:

- Field Selectable Pressure Ranges
- Field Selectable Output Signals
- Accepts AC/DC Supply Voltages
- User Friendly / Lowers Inventory

Applications:

- Static Pressure Control in Rooms
- Leak Detection
- Monitoring Filter Blockage
- Pneumatic Control
- Variable Air Volume Systems (VAV's)

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Wiring Diagrams available at www.workaci.com/instructions.htm
C0000109 Rev 3.pdf

DISPLAYS

TEMPERATURE

RELATIVE HUMIDITY

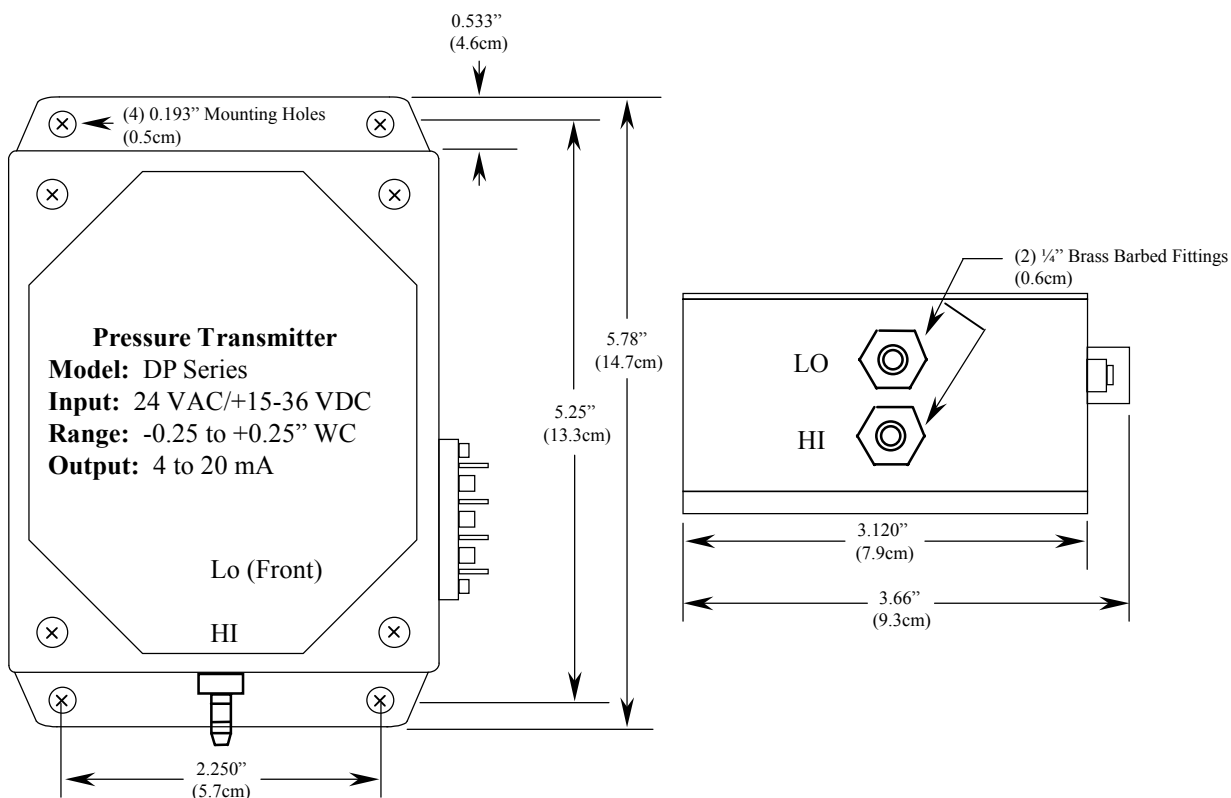
PRESSURE

CURRENT

AIR QUALITY

ACCESSORIES

Dimensions



Ordering Information

Model#	Factory Set SPAN	Output
A /DP-[]	-[]	-[]
↑	↑	↑
(1)	+/- 1.0"	(5) 0 to 5 VDC
(2)	+/- 0.5"	(10) 0 to 10 VDC
(3)	+/- 0.25"	(20) 4 to 20 mA
(4)	0 to 0.25"	
(5)	0 to 0.5"	
(6)	0 to 1.0"	
(7)	0 to 2.0"	
(8)	0 to 3.0"	
(9)	0 to 5.0"	
(10)	0 to 10.0"	
(11)	+/- 5.0"	
(12)	+/- 10.0"	

**Table of Jumper Selectable Ranges
for all DP Model# to the left**

Model#	Range 1	Range 2	Range 3
DP1	+/- 2.0"	N/A	N/A
DP2	+/- 0.3"	N/A	N/A
DP3	+/- 0.5"	N/A	N/A
DP4	0 to 0.5"	0 to 0.4"	0 to 0.3"
DP5	0 to 0.4"	0 to 0.3"	0 to 0.25"
DP6	0 to 0.8"	0 to 0.6"	0 to 0.5"
DP7	0 to 2.5"	0 to 1.5"	0 to 1.25"
DP8	0 to 5.0"	0 to 4.0"	0 to 2.5"
DP9	0 to 4.0"	0 to 3.0"	0 to 2.5"
DP10	0 to 8.0"	0 to 6.0"	0 to 5.0"
DP11	+/- 2.5"	N/A	N/A
DP12	+/- 5.0"	N/A	N/A

Example: A/DP-1-10 or A/DP-1-20 or A/DP-1-5

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