**Product Data** 

## omponents **Produ** nc. Low Differential Pressure Transmitters



A utomation

**ACI/DP SERIES** 



Product DescriptionThe ACI/DP series is a line of low differentialoffset

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 provides either a twowire, 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 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 $0.25^{\circ}$ , -0.5 to $0.5^{\circ}$ , 0 to 1", 0 to 2.0", and 0 to 5".

ACI pressure transmitters may be used in many different applications including:

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

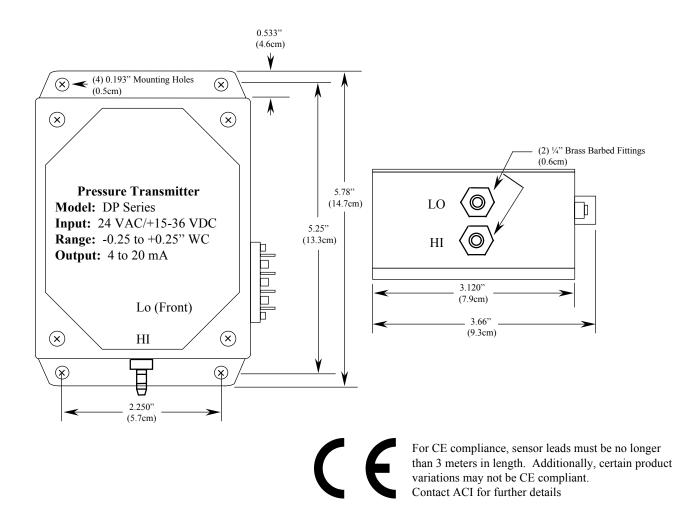
When used in combination with an ACI/PT, ACI/SPT, or ACI/VPT style pitot tubes, flow and static pressures can be measured and controlled in ducts. All ACI/DP low differential pressure transmitters come factory calibrated with a two year factory warranty. Please contact ACI for more information regarding any of these products.

Supply Voltage	250 Ohm Load: +15 to 36 VDC / 24 VAC	Operating	-10 to 60°C (14 to 140°F)
	500 Ohm Load: +19 to 36 VDC / 24 VAC	<b>Temperature Range</b>	
Output Ranges	2-wire, 4 to 20mA DC Current	Compensated	10 to $40^{\circ}$ C (50 to $104^{\circ}$ F)
	3-wire, 0-5, 0-10 VDC, or 4-20mA	Temperature Range	
Response Time	15 msec - 63% full scale step	Linearity	+/- 0.5% of span
<b>Position Effect</b>	2% Null shift from vertical to horizontal	Pressure Fittings	1/4" barbed fitting (Brass)
Pressure Overload	Span $< 2$ " H <sub>2</sub> O	<b>Temperature Error</b>	Span $< 2$ " H <sub>2</sub> O
Positive Pressure	5X	Zero	+/- 3.0% FSO
Negative Pressure	3X	Span	+/- 4.0% FSO
	Span > 2" $H_2O$		Span > 2" $H_2O$
Positive pressure	5X	Zero	+/- 1.5% FSO
Negative pressure	3X	Span	+/- 1.5% FSO
Transmitter Accuracy	+/- 1% of span	Screw Terminal	18-22 AWG Wire

### **Product Specifications**

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#### Dimensions



#### **Ordering Information**

<u> </u>				
	Model#	Standard Span	Output	
A	/ <b>DP</b> []	[ ]	[ ]	
	↑	↑	↑	
	(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)	Please Specify		

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

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"

**Example:** A/DP -(9) -(0 to 5.0") -(20) or ACI/DP -(6) -(0 to 1.0") -(5)