

Differential Pressure Transmitters

Design Features

- Variable capacitance sensor
- 4-20mA output
- Three adjustable spans
- $\pm 1\%$ Accuracy

Model ACI/DP



The ACI/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 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 transducer electronics provides either a two-wire, linear 4 to 20mA or a three-wire, 0 to 5 or 0 to 10 VDC output signal.

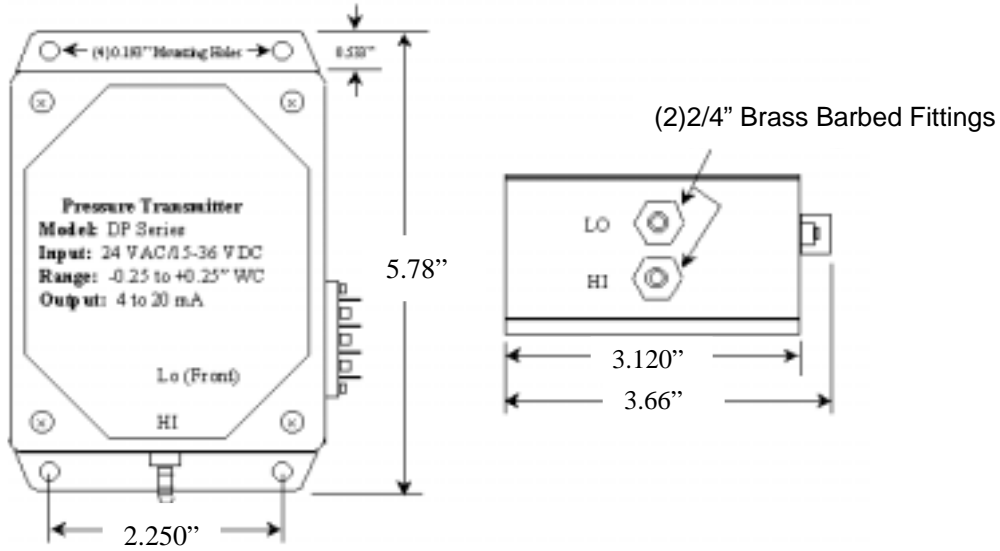
Accuracy is $\pm 1\%$ of full scale over the compensated temperature range. The transmitter may be powered by a regulated, +15-36 VDC or 24 VAC supply, and is polarity sensitive. In addition to the requested span each transmitter is capable of being field adjusted to three additional spans, by resetting 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", -0.5 to 0.5", 0 to 1", 0 to 2.0", and 0 to 5".

Specification

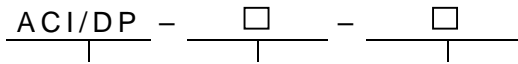
Supply Voltage	250 Ohm Load: +15 to 36 VDC / 24VAC	Transmitter Accuracy	$\pm 1\%$ of span
	500 Ohm Load: +18 to 36 VDC / 24 VAC		
Output Range	2-wire, Linear 4 to 20mA DC Current	Operating Temperature Range	10 to 40 (50 to 104)
Response Time	15msec -63% full scale step	Linearity	$\pm 0.5\%$ of span
Position Effect	2% Null shift from vertical to horizontal	Pressure Fittings	1/4" barbed fitting

Due to ongoing research and product improvement, specifications are subject to change without notice.

Dimensions



Order Information



Model	Span	Output
(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	

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"

Locally Distributed By

