



# MCS-STATIC-50"

## Description & Specifications



Part # **MCS-STATIC-50"**

### Specifications

Dimensions.....	2.75"W X 2.37D" X 5.0625"L with mounting flanges
Range.....	0.00 to 50.00 inches WC
Accuracy.....	±1% FSO
Stability.....	< 1% FSO / yr
Overpressure.....	up to 10psi (Range Dependent)
Compensated Range.....	+0°F to 175°F (-18°C to +79°C)
Media.....	Dry air or non-conducting gas
Excitation.....	9 to 30 VDC
Supply Current.....	5mA
Output Impedance.....	100 ohms
Output Signal.....	0 to 5 VDC
Electrical Connection.....	3" lead cables
Case.....	UL94V-0 glass filled polyester
Weight.....	10 ounces
Pressure Connections.....	3/16" ID up to 100' 1/4" ID up to 300' 3/8" ID up to 900'
Conversion Equation.....	VDC = (4/5)(Inches WC) + 0.5

### Description

The **MCS-STATIC-50"** is a differential pressure transducer that is designed to handle dry air or non-conducting gas. It accepts 4.8 to 8.1vdc for input power and outputs a 0.5 to 4.5vdc signal which is proportional to 0 to 50 inches of water column (WC).

The MCS-STATIC-50" differential pressure transducer is designed to measure duct static pressure in order to control the speed of evaporator fans in VAV applications or modulate bypass dampers. It can also be used for measuring the pressure drop across filter media to determine when the filter needs changing.

### Inches WC to VDC Chart

Inches WC	VDC (S1 to GND)	Inches WC	VDC (S1 to GND)
0.0	0	25.0	2.65
2.5	0.37	27.5	2.91
5.0	0.62	30.0	3.16
7.5	0.87	32.5	3.42
10.0	1.13	35.0	3.76
12.5	1.38	37.5	3.92
15.0	1.64	40.0	4.18
17.5	1.89	42.5	4.43
20.0	2.15	45.0	4.69
22.5	2.40	47.50	4.94
		50.0	5.00

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