MCS-STATIC-50”-VDC
Description & Specifications

RoHS Compliant

CE

Part # **MCS-STATIC-50”-VDC**

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

Packaging

Ship Weight	0.25 lb (approx)
Box Dimensions	4.75” x 4.25” x 2.25” (approx)

Description

The **MCS-STATIC-50”-VDC** 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”-VDC 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)
0.0	0
2.5	0.37
5.0	0.62
7.5	0.87
10.0	1.13
12.5	1.38
15.0	1.64
17.5	1.89
20.0	2.15
22.5	2.40

Inches WC	VDC (S1 to GND)
25.0	2.65
27.5	2.91
30.0	3.16
32.5	3.42
35.0	3.76
37.5	3.92
40.0	4.18
42.5	4.43
45.0	4.69
47.50	4.94
50.0	5.00

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