MCS-150AB
Description & Specifications

(For Refrigerant Applications)

RoHS Compliant

Part # **MCS-150AB-xx**

Description

The **MCS-150AB absolute** pressure transducer is specially designed for use in HVAC/refrigeration applications, in the most demanding environments, where low cost is needed yet maintaining high accuracy, long term reliability, and long life.

Absolute pressure uses absolute zero as a definitive reference point, absolute pressure remains precise and accurate regardless of changes in ambient or process temperature. Features include, high accuracy, refrigerant media compatibility and rugged design for outdoor use.

The MCS-150AB pressure transducer is CE, UL and RoHS compliant. It is capable of surviving high vibration. MCS-150AB has a cavity built out of stainless steel with a Neoprene sealing material, ¼" SAE Female Flare fitting & Schrader valve; 7/16-20 UNF pipe thread which creates a leak-proof, all metal sealed system that makes the MCS-150AB ideal for use with rugged HVAC environments using refrigerant Media.

PSI to VDC Chart

PSIA	SI (vdc)
0	0.50
10	0.76
20	1.02
30	1.29
40	1.56

PSIA	SI (vdc)
50	1.82
60	2.09
70	2.36
80	2.62
90	2.89

PSIA	SI (vdc)
100	3.16
110	3.42
120	3.69
130	3.96
140	4.23
150	4.50

Specifications

Pressure Range.....0 to 150 psi (Absolute)
Housing .....Stainless Steel
Sealing Material.....Neoprene
Environmental Protection...IP66*
Operating Temperature....-40ºF to 257ºF (-40ºC to 125ºC)
Accuracy.....± 2.0% -40ºF to -4ºF (-40ºC to -20ºC)
± 1.5% -4ºF to 32ºF (-20ºC to 0ºC)
± 1.0% 32ºF to 176ºF (0ºC to 80ºC)
± 1.5% 176ºF to 248ºF (80ºC to 120ºC)
± 2.0% 248ºF to 257ºF (120ºC to 125ºC)
Agency Approvals.....CE, UL E343906, RoHS
Proof Pressure.....3 x Full Scale = 450 psi
Burst Pressure.....5 x Full Scale = 750 psi
Random Vibration .....20 G @ 10-2000 Hz
Input Voltage.....5vdc (± 0.25 vdc
Input Current.....<10 ma (0.01 amps)
Output Voltage.....0.5 to 4.5vdc (ratio metric)
Connection .....¼" SAE Female Flare fitting & Schrader valve; 7/16-20 UNF thread

Option Cable:

Connector..... Packard with Silicone seal
Length..... 20', 40' or 60' feet
Type..... 3-conductor, 20 awg stranded
Shield..... Foil shield with 25% overlap
Drain..... Stranded tinned copper drain

When ordering replace -xx with:
xx..... 20' 40' or 60' wire length

The cable is available in either 20', 40 or 60' lengths with a removable Packard connector to provide easy serviceability. The wire is sealed and crimped to the Packard connector providing a liquid tight environment and strain relief.

***IP66 Rating**
Able to protect against powerful water jets
Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.
Test duration: at least 3 minutes
Water volume: 100 litres (26.42gals) per minute
Pressure: 100 kPa (14.50psi) at distance of 3 m (9.84ft)

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5580 Enterprise Pkwy., Fort Myers, FL 33905
Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com