



MCS-150AB Description & Specifications

(For Refrigerant Applications)



Part # MCS-150AB-xx

Specifications

- Pressure Range.....0 to 150 psi (Absolute)
- HousingStainless Steel
- Sealing Material.....Neoprene
- Environmental Protection... IP66*
- Operating Temperature....-40°F to 257°F (-40°C to 125°C)
- Accuracy.....
 - ± 2.0% -40°F to -4°F (-40°C to -20°C)
 - ± 1.5% -4°F to 32°F (-20°C to 0°C)
 - ± 1.0% 32°F to 176°F (0°C to 80°C)
 - ± 1.5% 176°F to 248°F (80°C to 120°C)
 - ± 2.0% 248°F to 257°F (120°C to 125°C)
- Agency Approvals.....CE, UL E343906, RoHS
- Proof Pressure.....3 x Full Scale = 450 psi
- Burst Pressure.....5 x Full Scale = 750 psi
- Random Vibration20 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)
- Connection1/4" 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)

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, 1/4" 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)	PSIA	SI (vdc)	PSIA	SI (vdc)
0	0.50	50	1.82	100	3.16
10	0.76	60	2.09	110	3.42
20	1.02	70	2.36	120	3.69
30	1.29	80	2.62	130	3.96
40	1.56	90	2.89	140	4.23
				150	4.50

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