MCS-200B-xx
Description & Specifications

(For Refrigerant Applications)

Part # **MCS-200B-xx**

Description

The **MCS-200B** pressure transducer is specially designed for use in high pressure HVAC/refrigeration applications, in the most demanding environments, where low cost is needed yet maintaining high accuracy, long term reliability, and long life.

Features include, high accuracy, wide temperature range, refrigerant media compatibility and rugged design for outdoor use.

The MCS-200B pressure transducer is CE, UL and RoHS compliant. It is capable of surviving high vibration. MCS-200B is a sealed gage pressure transducer with 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-200B ideal for use with rugged HVAC environments using refrigerant Media.

PSI to VDC Chart

PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)
0	0.50	70	1.90	140	3.30
10	0.70	80	2.10	150	3.50
20	0.90	90	2.30	160	3.70
30	1.10	100	2.50	170	3.90
40	1.30	110	2.70	180	4.10
50	1.50	120	2.90	190	4.30
60	1.70	130	3.10	200	4.50

Specifications

Pressure Range.....0 to 200 psi (sealed gauge)
Housing .....Stainless Steel
Sealing Material.....Neoprene
Electrical Connection.....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 = 600 psi
Burst Pressure.....5 x Full Scale = 1000 psi
Random Vibration .....5 G @ 33Hz
Input Voltage.....5vdc (± 0.25 Vdc)
Input Current.....<10 ma (0.01 amps)
Output Voltage.....0.5 to 4.5 Vdc (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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