



# MCS-200B-xx Description & Specifications

(For Refrigerant Applications)



Part # MCS-200B-xx



## Specifications

Pressure Range.....0 to 200 psi (sealed gauge)  
 Housing .....Stainless Steel  
 Sealing Material.....Neoprene  
 Electrical Connection.....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 = 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 .....1/4" 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-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, 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-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

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