



# MCS-500C-xx

## Description & Specifications



Part # **MCS-500C-xx**

### Description

The **MCS-500C** 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.

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

The MCS-500C pressure transducer is UL and RoHS compliant. It is capable of surviving high vibration. MCS-500C is a sealed gage pressure transducer ideal for outdoor environments, 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-500C ideal for use with rugged HVAC environments using refrigerant Media.

### Specifications

- Pressure Range.....0 to 500 psi (sealed gauge)
- Housing .....304L stainless steel
- Sealing Material.....Rugged seal ideal for outdoor environments
- Electrical Connection.....IP67
- Operating Temperature....-40°C to 125°C (-40°F to 257°F)
- Storage Temperature.....-40°C to 150°C (-40°F to 302°F)
- Accuracy.....± 2% F.S. typical over -25°C to 125°C (-13°F to 257°F)
- Agency Approvals.....UL873, ROHS compliant
- Proof Pressure.....3 x Full Scale = 600 psi
- Burst Pressure.....3600 psi, 24.8 MPa
- Vibration .....11 g (50 to 2000 Hz)
- Supply Current.....8 mA max @ 5 VDC with no load
- Input Current.....<10 ma (0.01 amps)
- 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.



### PSI to VDC Chart

PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)
0	0.50	100	1.30	200	2.10	300	2.90	400	3.70
10	0.58	110	1.38	210	2.18	310	2.98	410	3.78
20	0.66	120	1.46	220	2.26	320	3.06	420	3.86
30	0.74	130	1.54	230	2.34	330	3.14	430	3.94
40	0.82	140	1.62	240	2.42	340	3.22	440	4.02
50	0.90	150	1.70	250	2.50	350	3.30	450	4.10
60	0.98	160	1.78	260	2.58	360	3.38	460	4.18
70	1.06	170	1.86	270	2.66	370	3.46	470	4.26
80	1.14	180	1.94	280	2.74	380	3.54	480	4.34
90	1.22	190	2.02	290	2.82	390	3.62	490	4.42
								500	4.50