



MCS-150AC-xx (Absolute) Description & Specifications



Part # **MCS-150AC-xx**

Description

The **MCS-150AC 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.

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

The MCS-150AC pressure transducer is UL and RoHS compliant. It is capable of surviving high vibration. MCS150AC is a sealed gage pressure transducer ideal for outdoor environments with a cavity built out of stainless steel, 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-150AC 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

Specifications

Pressure Range.....0 to 150psi (Absolute)
 Housing304L 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
 Vibration11 g (50 to 2000 Hz)
 Supply Voltage5.0Vdc +/-0.5, max 10 mA
 Output Voltage0.5 VDC to 4.5 VDC typical
 Supply Current.....8 mA max @ 5 VDC with no load
 Output Current.....2.5 mA max sink or source
 Electrical Connection.....IP67
 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.

