



MCS-150AC-xxx* (Absolute) Description & Specifications



Part # **MCS-150AC-xxx***

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.....±1% F.S. typical over
 -25°C to 125°C (-13°F to 257°F)
Agency Approvals.....UL873, ROHS compliant
Proof Pressure.....1000 psi, 6.9 MPa
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

*Optional Cable:

MCS-150AC Transducer is available with an optional molded cable as shown below, please specify the length needed:

Replace -xxx with: 20M, 40M or 60M ft wire length. (available in longer lengths).



NOTE: IF -XXX IS OMITTED, MCS-150AC TRANSDUCER IS SHIPPED WITHOUT THE OPTIONAL MOLDED CABLE.

The cable has a removable 3 position connector to provide easy serviceability. The wire is sealed and crimped to the Packard connector providing a liquid tight environment and strain relief.



Connector.....3 position with Silicone seal
Length.....20M, 40M or 60M ft
Type.....3 conductor, 20 awg stranded
Shield.....Foil shield with 25% overlap
DrainStranded tinned copper drain

Packaging

Sensor (no cable).....0.12 lb - Box Dim. 6.75" x 4.25" x 2.25"
Bag Dim. with Cable10" x 10" x 2"
 with 20M ft cable 0.74 lb (approx)
 with 40M ft cable 1.40 lb (approx)
 with 60M ft cable 2.03 lb (approx)

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