



MCS-150AC (Absolute) Description & Specifications



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

(-xxx = optional wire length for Molded Cable)

Specifications

- Pressure Range..... 0 to 150psi (Absolute)
- 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..... ±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
- Vibration 11 g (50 to 2000 Hz)
- Supply Voltage 5.0Vdc +/-0.5, max 10 mA
- Output Voltage 0.5 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
- Connection 1/4" SAE Female Flare fitting with Schrader Depressor; 7/16-20 UNF thread

*Optional Cable:

Pressure Transducers are available with an optional molded cable as shown below, please specify the correct length (meters) needed: *(M stands for Molded in part#)*

Replace -xxx with: 20M, 40M or 60M

Length..... 20ft(6m), 40ft(12m) or 60ft(18m)
(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
- Type..... 3 conductor, 20 awg stranded
- Shield..... Foil shield with 25% overlap
- Drain..... Stranded tinned copper drain

Packaging

- Sensor (no cable)..... 0.12 lb - Box Dim. 6.75" x 4.25" x 2.25"
- Bag Dim. with Cable 10" x 10" x 2"
with 20ft (6m) cable 0.74 lb (approx)
with 40ft (12m) cable 1.40 lb (approx)
with 60ft (18m) cable 2.03 lb (approx)

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 with a Schrader Depressor; 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 |

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