



MCS-200C

Description & Specifications



Part # **MCS-200C-xxx***

(-xxx= optional wire length for Molded Cable)

MCS-200C Specifications

- Pressure Range.....0 to 200 psi gauge
- 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
- Connection1/4" SAE Female Flare fitting with Schrader Depressor; 7/16-20 UNF thread

*Optional Cable:

MCS-200AC Transducer is available with an optional molded cable as shown below, please specify the length needed:

Replace -xxx with: 20M, 40M or 60M
Length.....20 ft (6m), 40 ft (12m) or 60 ft (18m)
(available in longer lengths).

NOTE: IF -XXX IS OMITTED, MCS-200C 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 ft, 40M ft or 60M ft
- 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 20 ft (6m) cable 0.74 lb (approx)
- with 40 ft (12m) cable 1.40 lb (approx)
- with 60ft (18m) cable 2.03 lb (approx)

Description

The **MCS-200C** 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-200C pressure transducer is UL and RoHS compliant. It is capable of surviving high vibration. MCS-200C 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-200C 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