



MCS-050-DIFF

Description & Specifications



Part # **MCS--050-DIFF-xx**

SPECIFICATIONS

| | |
|-------------------------------|---|
| Pressure Range..... | 0-50 psi differential |
| Housing | 316L Stainless Steel Wetted |
| Environmental Protection..... | IP66 |
| Operating Temp. | -40 C - +85 C (-40 F to 185 F) |
| Storage | -40°C to +125°C (-40 to 257°F) |
| Accuracy* | ± 0.1% full span (± 0.05 psi) |
| Agency Approvals..... | CE, IEC61000-4-2 thru 4.9 |
| Proof Pressure..... | 10x or 150 psi, whichever is less |
| Burst Pressure (low)..... | 10x or 150 psi, whichever is less |
| Burst Pressure (high)..... | 12x or 1000 psi, whichever is less |
| Input Voltage..... | 4.5 to 5.5vdc |
| Output Voltage..... | 0.5-4.5vdc (ratio metric) |
| Connection | 1/4" SAE Packard Connection |
| Total Error Band..... | -1.5 - +1.5 |
| Bandwidth..... | DC to 1 KHz (typical) |
| Sensor Type | Differential Pressure Sensor with Unidirectional Calibration |
| Shock..... | 50g, 11 msec Half sine shock per MIL-STD-202F, Method 213B, Condition A |

OPTION - Cable:

| | |
|-----------------|------------------------------|
| Connector | Packard with Neoprene seal |
| Length..... | 20', 40' or 60' feet |
| Type..... | 3-conductor, 20 awg stranded |
| Shield..... | Foil shield with 25% overlap |
| Drain..... | Stranded tinned copper drain |

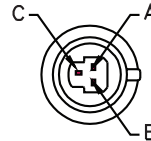
Part number description when ordering:

| | |
|-------------------------|----------------------------|
| MCS--050-DIFF-xx | |
| xx..... | 20' 40' or 60' wire length |



WARNING
Wiring as follows:

- PIN A - Black - +5vdc
- PIN B - Red - Ground
- PIN C - White - SI



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. Media compatibility: Refrigerants (freons) and ammonia.

Description

The MCS-050-DIFF sets the price and performance standard for differential pressure transducers used in demanding environments.

The sensor exceeds the latest heavy industrial CE requirements including surge protection and reverse polarity protection. The amplified and mV output pressure transducer has two pressure ports for high and low pressures and all wetted parts are made of 316L stainless steel.

- As Low As ± 0.1% Pressure Non Linearity
- Tank Level Measurement
- Rugged Construction:
Can Withstand 50g Shock/20g Vibration
- Filter Performance Monitoring
- Up to -40°C to +125°C Operating Temperature Range
- Corrosive Fluids and Gas Measurement Systems
- Excellent Stability
- Flow Measurements
 - Measure Differential Pressure Across Chiller Barrels
 - Proof of Flow
 - Can Be Used to Calculate Flow Rate