



MCS-050-DIFF-XP

Description & Specifications

Part #
MCS--050-DIFF-XP



SPECIFICATIONS

Differential
Pressure Range.....0-50 PSI
Maximum Line Pressure..... 300 PSI (350)
Housing 316L Stainless Steel
Environmental Protection ... IP66
Operating Temp.....-20 to 70°C (-4 to 158°F)
Storage-55 to 120°C (-67° to 248°F)
0-100% relative humidity, non-condensing
Accuracy.....± 0.3% psi
Proof Pressure.....2X Line pressure (600 psi)
Burst Pressure..... 5X Line pressure (1500 psi)

Electrical

Wire Length2ft. 18 AWG wires
Current Consumption <15mA
Output Voltage..... 0.5-4.5V ratiometric
Reverse Polarity Yes
Sampling Rate 200Hz
Connection 1/4 male npt - Both Ends
Sensor Type Differential Pressure Sensor
with Unidirectional Calibration

Shock..... 100G, 10msec, 1/2 sine
Vibration 10G peak, 20 to 2000Hz
Approvals..... ABS (American Bureau of Shipping)
Class I, Div 1, Groups A,B,C,D
Explosion Proof / Class II, Div 1,
Groups E,F,G; Class III, Div 1
ATEX and IECEx
Ex d IIC T5 Gb, Ex tb IIIC T100°C Db

Description

The **MCS-050-DIFF-XP** wet/wet differential pressure transducers can measure the differential pressure of liquids or gases with line pressures up to 300 PSI (350 bar) and a turn-down ratio of 15 to 1. Using Krystal Bond Technology, the MCS-050-DIFF-XP differential pressure transducer contains no silicone oil, O-rings, or welds. The low strain level on the diaphragm results in accurate, repeatable measurements.

The MCS-050-DIFF-XP wet/wet differential pressure transducer is commonly used to measure differential pressure across filters or calculate flow across an orifice plates. With its digital compensation, the MCS-050-DIFF-XP offers excellent linearity and performance over temperature.

The electronics offer a fail safe condition on the output signal.

Benefits

- Explosion Proof
- ABS (American Bureau of Shipping) Approved
- Krystal Bond™ Technology
- ASIC Compensation
- Turn-Down Capability
- Both or Either Pressure Port Can See Full Line Pressure
- No Expensive Balancing Valves Required
- Line Pressure up to 300 PSI (350 Bar)
- Smart Electronics with Failure Condition Protection
- Wide Variety of Materials for Various Liquids and Gases

Option

H Explosion proof Housing



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