Made in USA

ICM380
Optional Pressure Transducer

The ICM380 pressure transducer provides proven performance at a competitive price.

Features

- Ceramic capacitive sensor
- Durable, compact design
- Accurate performance over wide temperatures
- Overvoltage and short circuit protected
- Brass connector
- Sealed gauge (neoprene seal)

Applications

- Discharge and suction pressure monitoring
- Subcooling and superheat calculations
- Compressor oil pressure monitoring
- Condenser fan control
- Compressor staging and unloading
- Electronic expansion valve control
- Remote systems diagnostics and trending

Mode of Operation

The standard design is ideal for demanding HVAC and refrigeration applications where long-term reliability is a must. The transducer is designed to operate with a 5Vdc supply, and to provide a robust 0 to 5Vdc output. The output is ratiometric to supply voltage, allowing the user to maintain accuracy with variation in the supply voltage. The electrical interface is a rugged industry accepted connector. The brass pressure connection has multiple threads. This device maintains accuracy through a wide temperature range.

Specifications

Pressure Ranges
- 0-500 psi

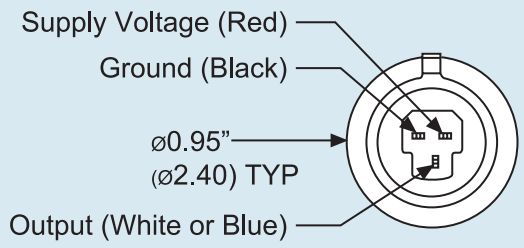
Performance

Accuracy: +/- 1.2% span
(linearity, hysterisis, repeatability, calibration)
Temperature error: +/- 0.013% °C
Operating Temperature: -40°C to +135°C

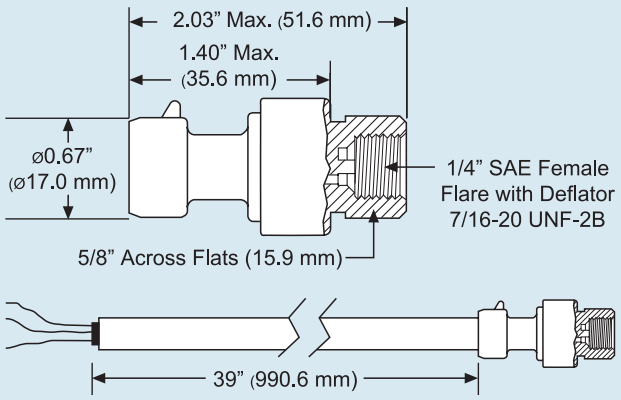
Electrical
- *Supply Voltage (Vin):* 4.5 to 5.5 Vdc
- *Output Voltage (Vout):* 0.5 to 4.5 Vdc typical
- *Supply Current:* 8 mA (maximum @ 5.5 Vdc with no load)
- *Output Current:* 2.5 mA (maximum sink or source)
- *Output Load:* 10K ohms typical Output
- *Output Response Time:* 10 mS
- *Overvoltage Protection:* 16 Vdc
- *Reverse Voltage:* 14 Vdc
- *Short Circuit Protected:* Yes
- *EMC (512 MHz-1 GHz):* 25 V/m
- *EMC (10 MHz-512MHz):* 50 V/m
- *ESD (CDF-AEC-Q100-002):* 15k V

Physical
- *Proof Pressure:* 5X 15- 75psi
  3X 100-300psi
  2X 500psi
- *Burst Pressure:* 2CP5 1500psi/2500 psi minimum
  2CP50 2500 psi minimum
- *Cycle Life:* 10M F.S. cycles
- *Random Vibration* (50-2000 Hz)*:* 11g
- *Drop (any axis):* 1.5 m
- *Electrical Connection:* Nema 4X, IP65

Wiring Diagram



Dimension Diagram



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All features and specifications subject to change without notice.

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