

PRESSURE TRANSMITTER



MSP5100 Pressure Transmitter Heavy Industrial - High EMI Rated

The MSP5100 series from MEAS, USA sets the price / performance standard for transducers used in demanding environments. The MSP5100 exceeds the latest heavy industrial CE requirements including surge protection, and is over voltage protected to 16Vdc in both positive and reverse polarity. The pressure port is machined from a solid piece of 17-4PH stainless steel (316L optional). There are no O-rings, organics or welds exposed to the pressure media. This allows for a leak proof, all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

FEATURES

- ◆ Heavy Industrial CE Approval
- ◆ 100 V/m EMI Protection
- ◆ Reverse Polarity Protection
- ◆ Extended temperature range
- ◆ 1% Total Error Band
- ◆ Compact Outline
- ◆ -40 to 125° C

APPLICATIONS

- ◆ Advanced HVAC Controllers
- ◆ Refrigeration Systems
- ◆ Automotive Test Stands
- ◆ Gas compressors
- ◆ Industrial process control
- ◆ Pumps and Compressors
- ◆ Hydraulic/Pneumatic Systems
- ◆ Agriculture Equipment
- ◆ Energy and Water Management

Specifications

Accuracy
+/- 0.25% F.S.

Output
4-20mA

Supply Voltage
9-30 V DC

Connection
1/4" BSP

Media compatibility
Fluids compatible with 17-4 PH stainless steel (316L optional)

Pressure cycles
> 10 million

Pressure overload
2 times rated pressure without calibration shift

Long Term Stability
+/- 0.25% FS typical (12 months)

Burst pressure
5 times rated pressure

Operating Temp Range
-40 to +125 °C (4-20 mA)

Compensated Temp Range
-20 to 85 °C

Total Error Band
+/- 1% FS over compensated range
(+/- 1.5% typical over extended range contact factory)

Vibration
20G at 20 to 200 Hz

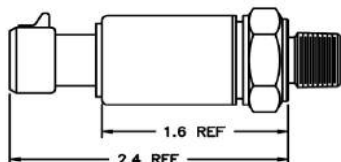
Pressure ranges	Compound Ranges
0-1 bar	-1x3 bar
0-2 bar	-1x4 bar
0-7 bar	-1x6 bar
0-10 bar	-1x10 bar
0-16 bar	-1x20 bar

Absolute Ranges
-1 to 0 Bar (vacuum)
-1 to 1 Bar
-1 to 2 Bar

0-25 bar
0-30 bar
0-35 bar
0-60 bar
0-70 bar
0-100 bar
0-150 bar
0-175 bar
0-200 bar
0-350 bar
0-700 bar
0-1000 bar

mechanical dimensions

Pin 1 - +Excitation
Pin 2 - Output



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