

VMC Pressure Transducer is a compact linear analog sensor manufactured for heavy industrial use, enhanced temperature performance, and (0.5 – 4.5)V<sub>DC</sub> output signaling. Internal circuitry is designed for EMI, overvoltage, and reverse voltage protection. VMC pressure sensor is CE approved for safe operation and RoHS compliant for environmental conservation. Standard pressure ranges are available from 60psi to 10,000psi. The VMC pressure sensor is resistive to shock and vibration and exhibits no measurement error from mounting. The pressure port is machined from a solid piece of stainless steel, eliminating o-rings, organics, or weld exposure to the pressure media, providing an extremely durable and reliable product lifetime of at least ten million operations.

This sensor may be used for a wide variety of liquid or gas applications, including test and measurement of HVAC or hydraulic systems in automotive, agricultural, and heavy equipment machinery. The stainless steel construction makes this sensor ideal for difficult media such as contaminated water, steam, and mildly corrosive fluids. Transmitter performance is directly traceable to the National Institute of Standards and Technology and specifications are conservatively stated. A calibration test certificate is provided with each transducer.



**Standard VMC Pressure Ranges: (0 to Max)**

psi (KPa)	psi (MPa)	psi (MPa)
60 (414)	500 (3.45)	3,000 (20.7)
100 (690)	750 (5.17)	5,000 (34.5)
200 (1,380)	1,000 (6.89)	7,500 (51.7)
300 (2,070)	2,000 (13.8)	10,000 (68.9)

**Electrical:**

Input Power: (8-30) Vdc  
 Load Resistance: R<sub>L</sub> > 100KΩ  
 Reverse Voltage: Protected  
 Output:  
 0 psi = 0.500V<sub>DC</sub>  
 FS psi = 4.500Vdc (Full Scale)  
 Accuracy: ±0.5%FS (NLH&R)  
 Stability: ±0.25%FS / Year  
 Total Error Band: ±1.0%FS  
 Isolation: 1MΩ Body to Any Lead @25V<sub>DC</sub>  
 EMI Protected: (0 – 100)V/m Field Strength  
 Bandwidth: DC to 1KHz (Typ)  
 Operating Temperature:  
 Compensated: (-4 – +104)F (-20 – +40)C  
 Operating: (-40 – +257)F (-40 – +125)C

**Electrical Connections:**

6-Position Military-Style Quick Disconnect  
 (Similar to PT01A10-6P SR)  
 A = (8 – 30)V<sub>DC</sub> Input Power  
 B = Common  
 C = Common  
 D = (0.50 – 4.50)Vdc Output  
 E = N/C  
 F = N/C

**Physical:**

Dimensions: 3.00”L x 0.875”D  
 (7.62cmL x 2.23cmD)  
 Weight: 3.096oz (87.8g)  
 Mounting: ¼-18 NPT  
 Wrench: 7/8” Hex Nut (0.875in, 22.3mm)

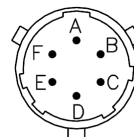
**Mechanical:**

Pressure:  
 Burst: 5 x Full Scale (FS) Rating  
 Durability: 1.00E7 FS Cycles  
 Overload: 2 x FS Rating  
 Pressure Port Material: 17-4PH S.S.  
 Sensor Type: Gauge Pressure  
 Shock: 50g  
 11 msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A.  
 Vibration: 20g  
 MIL-STD-810C, Procedure 514.2, Figure 514.2-2, Curve L.

**Compliance:**

CE Approved  
 ✓RoHS

**Connector Pin View:**



Pigtail adapters available for other connections.