



HIGH PERFORMANCE PRESSURE SENSOR MODEL 6-13

The **Model 6-13** is uniquely designed for use in a broad variety of applications where accurate, reliable, high performance pressure measurement is required.

The **Model 6-13** utilizes a micro-machined silicon pressure sensor that is isolated for all media by a 316L stainless steel diaphragm and high performance digital temperature compensation ASIC. This translates into excellent linearity, increased long-term stability & reliability.

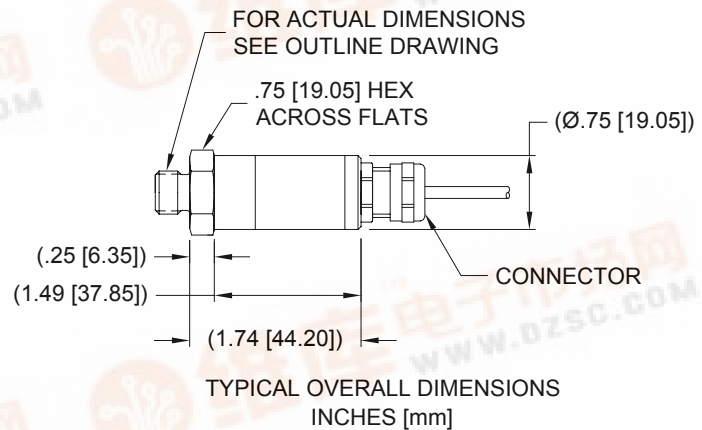
Micro-machined silicon pressure sensors provide accuracies down to $\pm 0.20\%$ with effectively no hysteresis and a long-term drift of less than 0.15% FSO for one (1) year & proof pressures greater than 3X the rated pressure.

All **Model 6-13** configurations have extremely robust EMI/RFI protection. The **Model 6-13** will not shift, drift, or fail in an EMI/RFI environment of greater than 10 volts/meter up to 1.0GHz.

The **Model 6-13** is hermetically sealed by welding & conforms to NEMA 4 & 4X enclosure requirements. (Except for vented gage configurations.)



*Wide Choice of
Pressure Ranges & Fittings*
*Highly
Corrosion Resistant*
*Exceptional
Long-term Stability*



COLOR	FUNCTION	PIN	DESCRIPTION
RED	V+	A(1)	VOLTAGE IN
BLK	V-	B(2)	SIGNAL OUT
WHT	V0	C(3)	NOT USED
GRN	CG	D(4)	CASE GND
		E	NOT USED
		F	NOT USED

- *Process Control Systems*
- *Natural Gas Production*
- *Liquid Level Measurement*
- *Gas Compressors*
- *Chemical Processing Systems*
- *Wastewater Treatment*
- *Chemical Processing Systems*
- *Pulp & Paper Processing*



MODEL 6-13

HIGH PERFORMANCE PRESSURE TRANSDUCER

Product Specifications

Performance

Output Signal	4 - 20mA DC
Accuracy L, R & H	±0.35%FSO (BFSL)
Zero Offset	±1.0%FSO
Long-term Stability	±0.50%FSO/Year
Compensated Temperature	0°C to 85°C (32°F to 185°F)
Temperature Effect	Zero: ±2.0% FSO Span: ±2.0% FSO

Operating

Input Power	8 - 30 VDC (@ 25mA Max)
Insulation Resistance	100 megohms @ 50 VDC
Reverse Polarity	Protected
Proof Pressure	150% of Rated Range
Burst Pressure	200% of Rated Range
Weight	72g (2.5oz)

Environmental

Max Operating Temperature	-40°C to 125°C (-40°F to 257°F)
EMI/RFI	10volts/meter up to 1.0GHz
Wetted Parts	316L SST
Vibration	15 G's, 10-2000Hz
Shock	100 G's for 11ms, Half-sine
Enclosure	NEMA 4 & 4X
Life	100 MM Full Scale Cycles

Ordering Information

	6 - 13	X - XX	X	X	- XX
Instrument Family	6 = Micro-machined Silicon				
Sensor Type	13 = Pressure Transmitter				
Reference Pressure	0 = Absolute 1 = Vented Gage 2 = Sealed Gage				
Pressure Ranges **	00 = 3 PSI # 01 = 5 PSI # 02 = 15 PSI # 03 = 20 PSI # 04 = 25 PSI # 05 = 30 PSI # 06 = 50 PSI # 07 = 60 PSI #	08 = 100 PSI # 09 = 150 PSI # 10 = 200 PSI # 11 = 250 PSI # 12 = 300 PSI # 13 = 500 PSI * 14 = 1000 PSI * 15 = 1500 PSI *	16 = 2000 PSI * 17 = 3000 PSI * 18 = 5000 PSI * 19 = 6000 PSI * 20 = 7500PSI * 21 = 10, 000 PSI *		
	# Absolute & Vented Gage		* Sealed Gage Only		
	** Calibration in bars available, consult factory for details				
Pressure Fittings	0 = MS33656-E4 Male 1 = 7/16-20 Straight, Male 2 = 1/4-18 NPT, Male 3 = 1/8-27 NPT, Male	4 = 1/4-18 NPT, Female 5 = 9/16-18 Straight, Male Flush Diaphragm			
Electrical Connections	0 = PT1H-10-6P 1 = 3-Wire Cable 2 = PT1H-8-4P	3 = 5-Wire Shielded 4 = DIN43650 Form C 5 = Hirschmann ELST 412			
Custom Configurations	00 = No Custom Requirements				