

GENERAL PURPOSE PRESSURE SENSOR MODEL 6-10

The **Model 6-10** is uniquely designed for use in a broad variety of applications where accurate, reliable, high performance pressure measurement is required.

The **Model 6-10** utilizes a micro-machined silicon pressure sensor that is isolated for all media by a 316L stainless steel diaphragm. Silicon, as a material, tolerates very high bending stresses with virtually no hysteresis. This allows high electrical outputs with very little stress, which translates into excellent linearity, increased long-term stability & reliability.

Micro-machined silicon pressure sensors provide accuracies down to $\pm 0.25\%$ with effectively no hysteresis and a long-term drift of less than 0.25% FSO for one (1) year & proof pressures greater than 5X the rated pressure.

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

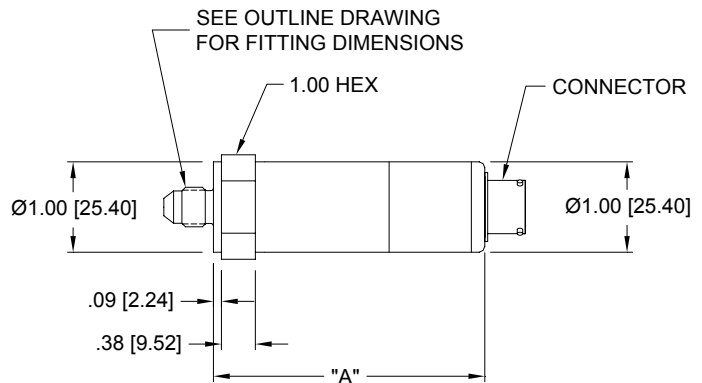
The **Model 6-10** is hermetically sealed by welding & conforms to NEMA 4 & 4X enclosure requirements. (Except for vented gage configurations.)



*Wide Choice of
Pressure Ranges & Fittings*

*Highly
Corrosion Resistant*

*Exceptional
Long-term Stability*



TABULATION		4 WIRE	PIN	DESCRIPTION
RANGE	"A"	RED	A	+ SUPPLY
3 TO 300 PSI	2.50 MAX [63.5]	BLACK	B	- SUPPLY
500 TO 15K PSI	3.00 MAX [76.25]		C	NOT USED
		WHITE	D	CASE GROUND
			E	NOT USED
			F	NOT USED
		GREEN		NOT USED
		BARE		CASE DRAIN WIRE

OVERALL DIMENSIONS
INCHES [mm]

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

MODEL 6-10

GENERAL PURPOSE PRESSURE TRANSDUCER

Product Specifications

Performance

Output Signal	See Chart 1
Accuracy L, R & H	±0.35%FSO (BFSL)
Zero & Span Offset	±0.25%FSO @ 21°C
Long-term Stability	±0.50%FSO/Year
Compensated Temperature	-10°C to 85°C (14°F to 185°F)
Temperature Effect	±1.0% Over the Compensated Temperature Range

Operating

Input Power	See Chart 1
Insulation Resistance	100 megohms @ 50 VDC
Dielectric Strength	250 VDC
Proof Pressure	150% of Rated Range
Burst Pressure	200% of Rated Range

Weight 0.25Kg (0.5lbs)

Environmental

Max Operating Temperature	-40°C to 120°C (-40°F to 250°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 (Except Vented Gage)

Certifications

- CE-IEC 801-2 Level 3, ESD
- CE-IEC 801-3 Level 3, Radiation RF
- CE-IEC 801-4 Electrical Fast Transient/Burst
- CE-IEC 801-5 Level 4, Surge to 4kV
- CE-IEC 801-6 Level 3, Conducted Susceptibility

Ordering Information

6 - 10 X - XX X X - XX

Instrument Family

6 = Micro-machined Silicon

Sensor Type

10 = Pressure Transducer

Reference Pressure

0 = Absolute 1 = Vented Gage 2 = Sealed Gage

Pressure Ranges **

00 = 3 PSI # †	08 = 100 PSI #	16 = 2000 PSI *
01 = 5 PSI # †	09 = 150 PSI #	17 = 3000 PSI *
02 = 15 PSI #	10 = 200 PSI #	18 = 5000 PSI *
03 = 20 PSI #	11 = 250 PSI #	19 = 6000 PSI *
04 = 25 PSI #	12 = 300 PSI #	20 = 7500 PSI *
05 = 30 PSI #	13 = 500 PSI *	21 = 10,000 PSI *
06 = 50 PSI #	14 = 1000 PSI *	22 = 15,000 PSI * †
07 = 60 PSI #	15 = 1500 PSI *	

Absolute & Vented Gage * Sealed Gage Only

** Calibration in bars available † Consult Factory

Pressure Fittings

0 = MS33656-E4 Male	3 = 1/8-27 NPT, Male
1 = 7/16-20 Straight, Male	4 = 1/4-18 NPT, Female
2 = 1/4-18 NPT, Male	5 = 1/2-14 NPT, Male

Electrical Connections

0 = PT1H-10-6P	3 = 4-Wire Shielded Cable
1 = 1/2 NPT 4-Wire Cable Conduit	4 = DIN43650 Form C
2 = PT1H-8-4P	5 = Hirschmann ELST 412

Custom Configurations (Chart 1)

	Output Signal	Input Power
00 =	0.5 - 5.0 VDC	10-32 VDC
0A =	0.05 - 5.0 VDC	10-32 VDC
0B =	0.5 - 5.5 VDC	10-32 VDC
0C =	1.0 - 5.5 VDC	10-32 VDC
0D =	1.0 - 6.0 VDC	10-32 VDC
0E =	0.1 - 10.0 VDC	16-32 VDC
0F =	1.0 - 11.0 VDC	16-32 VDC



An Electromotive Solutions Company

ISO 9001:2000 & AS9100:2004 Certified

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