

Model 6-07

BEI Edcliff Instruments Division

13mm Uncompensated Micro-Machined Pressure Sensor

The model 6-07 is specifically designed for use in a broad variety of OEM applications where accurate, reliable, high performance pressure measurement is required. Its small size (13mm O.D.), media isolated diaphragm and rugged construction are ideal for Controls and Instrumentation, Recreational Diving, Process Control, and other applications that require a small, accurate, robust pressure sensor.

The model 6-07 operates over a wide temperature range: -40°C to 121°C and at pressures from 200 psi to 10,000 psi.

The model 6-07 utilizes a media isolated 6th generation micro-machined silicon pressure sensor. The process is designed to provide exceptional stability and very low noise. Each manufacturing process step is monitored and controlled to insure continuous built-in reliability.

The modular design of the Model 6-07 pressure Sensor allows customer specific product design modifications while maintaining product integrity. In customer specific applications requiring unique pressure connections, labeling, calibration, electrical connections, performance, packaging, or a combination of these elements, BEI Edcliff Instruments can provide a special product design service to meet your requirements.



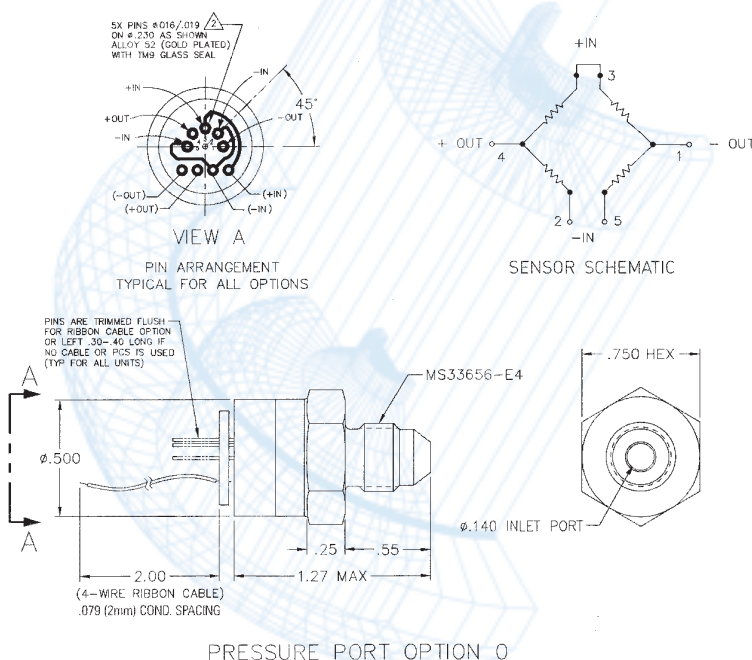
Unique products

Applications

Process Control Systems
Natural Gas Production
Liquid Level Measurement
Gas Compressors
Lubrication Systems
Chemical Processing
Waste Water Treatment
Pulp & Paper Processing
Refrigeration
HVAC

Features

Broad Selection of Pressure Fittings
Broad Selection of Pressure Ranges
All-Welded 316 Construction, NEMA 4 & 4X
Exceptional Long-Term Stability
Static Error Band of $\pm 0.20\%$ FSO



Contact factory or local sales representative for outline drawings of the various configurations and the electrical pinouts.



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Product Specifications

IAW ANSI/ASA S37.1-75

PERFORMANCE

OUTPUT SIGNAL	10 mV/Volt
ZERO OFFSET	0±30 mV/Volt
ACCURACY L & R	±0.20% of FSO @ 21°C (BFSL)
LONG-TERM STABILITY	±0.15% FSO/Year
COMPENSATED TEMPERATURE	Uncompensated
TEMPERATURE EFFECT ON ZERO & SPAN	ZERO: = ±10% SPAN / 100°F SPAN: = ±20% SPAN / 100°F

OPERATING

INPUT POWER	5 VDC
INSULATION RESISTANCE	50 MEGOHMS @ 100 VDC
DIELECTRIC STRENGTH	500 VAC, 50-60 Hz, 5 mA MAX, 1 MIN.
PROOF PRESSURE	150% of Rated Range
BURST PRESSURE	200% of Rated Range or 2,000 PSI
WEIGHT	< 0.25 Kilos (0.5 lbs)

ENVIRONMENTAL

MAXIMUM OPERATING TEMPERATURE	-40° to +120°C (-40° to +250°F)
WETTED PARTS	316 Cres
ENCLOSURE	NEMA 4 & 4X
VIBRATION	15 gs 10-2000 Hz
SHOCK	100 gs for 11 Milliseconds, Half-sine

CERTIFICATIONS

Ordering Information

6 - 07 X - XX XX - XX

INSTRUMENT FAMILY

6 = Micro-machined
Silicon Strain Gage

SENSOR TYPE

07 = Pressure Sensor
100 mV Output

REFERENCE PRESSURE

0 = Absolute
1 = Vented Gage
2 = Sealed Gage

PRESSURE RANGES**

11 = 0 to 200 PSI
13 = 0 to 300 PSI
14 = 0 to 500 PSI
15 = 0 to 1,000 PSI (Avail. in Sealed Gage only)
18 = 0 to 3,000 PSI (Avail. in Sealed Gage only)
19 = 0 to 4,000 PSI (Avail. in Sealed Gage only)
20 = 0 to 5,000 PSI (Avail. in Sealed Gage only)

PRESSURE PORTS

0 = MS33656-E4
1 = SAE 7/16-20 Straight
2 = 1/4NPT, Male
3 = 1/8NPT, Male
4 = Weld Ring 13mm
5 = Weld Ring 13mm W/ O-Ring Groove
6 = G 1/4 British STD Pipe Thread, Female
7 = 1/8NPT, Female

ELECTRICAL CONNECTIONS

0 = Pins Only
1 = 2" Ribbon Cable (4 COND.)

CUSTOM CONFIGURATIONS

00 = No Custom Requirements

**Calibration in bars is also available. Contact factory for details.

BEI EDCLIFF INSTRUMENTS DIVISION
SENSORS & SYSTEMS COMPANY

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