Model 6-08

BEI Edcliff Instruments Division

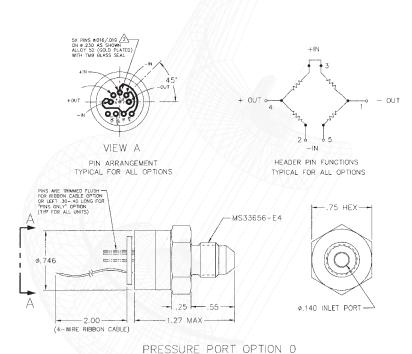
19mm Uncompensated Micro-Machined Pressure Sensor

The Model 6-08 is specifically designed for use in a broad variety of OEM applications where accurate, reliable, high performance pressure measurement is required. Its small size (19mm 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 6-08 operates over a wide temperature range: -40°C to 121°C and at pressures from 5 psi to 1,000 psi.

The Model 6-08 utilizes a media isolated 6th generation micromachined 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 6-08 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 ±0.20% FSO



Model 6-08

19mm Uncompensated Micro-Machined Pressure Sensor

Product Specifications

IAW ANSI/ASA S37.1-75

PERFORMANCE

OUTPUT SIGNAL 10 mV/Volt
ZERO OFFSET 0±30 mVolt

ACCURACY ±0.20% of FSO @ 21°C (BFSL)

L&R

LONG-TERM ±0.15% FSO/Year

STABILITY

COMPENSATED Uncompensated

TEMPERATURE

TEMPERATURE EFFECT ZERO: = $\pm 10\%$ SPAN / 100° F ON ZERO & SPAN SPAN: = $\pm 20\%$ SPAN / 100° F

OPERATING

INPUT POWER 5 VDC

INSULATION 50 MEGOHMS @ 100 VDC

RESISTANCE

DIELECTRIC 500 VAC, 50-60 Hz, 5 mA MAX,

STRENGTH 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 -40° to +120°C (-40° to +250°F)

TEMPERATURE

WETTED PARTS 316 Cres

ENCLOSURE NEMA 4 & 4X

VIBRATION 15 g's 10-2000 Hz

SHOCK 100 g's for 11 Milliseconds, Half-sine

CERTIFICATIONS

Ordering Information

<u>6 - 08 X - X X X X - XX</u>

INSTRUMENT – FAMILY

6 = Micro-machined Silicon

SENSOR TYPE

08 = 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 (Avail. in Sealed Gage only) 15 = 0 to 1,000 PSI (Avail. in Sealed Gage only)

PRESSURE PORTS -

0 = MS33656E4

1 = SAE 7/16-20 Straight

2 = 1/4NPT, Male

3 = 1/8NPT, Male

4 = Weld Ring 19mm

5 = Weld Ring 19mm 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



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