## BEI Edcliff Instruments Division

### Industrial Pressure Transducer

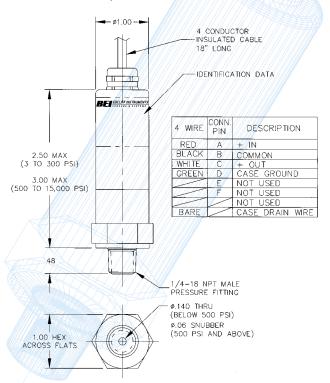
The Model 6-30 Pressure Transducer is uniquely designed for the broadest possible range of applications, including Process Control Systems, Natural Gas Production, Liquid Level Measurement, Gas Compressors, Lubrication Systems, Chemical Processing, Waste Water Treatment, Pulp & Paper Processing, Oil Production & Recovery, and others.

The Model 6-30 utilizes a Micro-Machined Silicon pressure sensing die 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 provides very high electrical outputs with very little stress which translates into excellent linearity, increased long-term stability and reliability.

Micro-Machined Silicon pressure sensors provide accuracies down to  $\pm 0.5\%$  with effectively no hysteresis and a long-term drift of less than 0.5% FSO for one year and proof pressures greater than 5x the rated pressure.

All Model 6-30 configurations have extremely robust EMI/RFI protection. The Model 6-30 will not shift, drift, or fail in an EMI/RFI environment of greater than 10 volts/meter up to 1.0 GHz.

The Model 6-30 is hermetically (except for vented gage configurations) sealed by welding and conforms to NEMA 4 & 4X enclosure requirements.



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



## <u>Unique</u> products

### **Applications**

Process Control Systems

Liquid Level Measurement

Gas Compressors

Lubrication Systems

Chemical Processing

Waste Water Treatment

Pulp & Paper Processing

#### **Features**

Broad Selection of Pressure Fittings &

**Electrical Connections** 

Broad Selection of Pressure Ranges

All-Welded 316 Construction, NEMA 4 & 4X

Exceptional Long-Term Stability

Static Error of ±0.5% FSO



# Model 6-30

### Industrial Pressure Transducer

### **Product Specifications**

IAW ANSI/ASA S37.1-75

#### **PERFORMANCE**

ZERO & SPAN OFFSETS ±0.5% FSO @ 21°C

ACCURACY L & R ±0.5% of FSO @ 21°C (BFSL)

±1.00% of FSO @ 21°C (BFSL): 5000 PSI

LONG-TERM STABILITY ±0.25% FSO/Year

COMPENSATED TEMP. -10° to +85°C (14° to +185°F)

TEMPERATURE EFFECT ±1.0% FSO Over the Compensated

ON ZERO & SPAN Temperature Range

#### **OPERATING**

INPUT POWER/ See Table Below

**OUTPUT SIGNAL** 

INSULATION 100 MEGOHMS @ 50 VDC

**RESISTANCE** 

REVERSE POLARITY Protected

PROOF PRESSURE 150% of Rated Range

BURST PRESSURE 200% of Rated Range or 12,000 PSI,

Whichever is Less

WEIGHT 0.25 Kilos (0.5 lbs)

#### **ENVIRONMENTAL**

MAXIMUM OPERATING -40° to +120°C (-40° to +250°F)

TEMPERATURE

EMI/RFI 10 Volts/Meter up to 1.0 Ghz

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 - CE PENDING

STD CONFIGURATION	OUTPUT SIGNAL	OPERATING INPUT POWER
-00	.5 - 5.0 VDC	8 - 36 VDC
-0A	.05 - 5.0 VDC	8 - 36 VDC
-0B	.5 - 5.5 VDC	8 - 36 VDC
-0C	1.0 - 5.0 VDC	8 - 36 VDC
-0D	1.0 - 6.0 VDC	8 - 36 VDC
-0E	.1 - 10.0 VDC	13 - 36 VDC
-0F	1.0 - 11.0 VDC	13 - 36 VDC

### Ordering Information

<u>6 - 30 X - X X X X - X X</u>

### INSTRUMENT

6 = Micro-machined Silicon

### SENSOR TYPE —

10 = Pressure Transducer Voltage Output Signal

#### REFERENCE PRESSURE

0 = Absolute1 = Vented Gage2 = Sealed Gage

#### PRESSURE RANGES\*\*

02 = 15 PSI#11 = 250PSI# 03 = 20 PSI#12 = 300PSI# 04 = 25PSI# 13 = 500PSI\* 14 = 100005 = 30 PSI#PSI\* 06 = 50PSI# 15 = 1500PSI\* 16 = 200007 = 60PSI# PSI\* 08 = 100 PSI#17 = 3000PSI\* 09 = 150 PSI#18 = 5000

#### PRESSURE FITTINGS

10 = 200 PSI#

0 = MS33656E4 (SAE J514-4) 3 = 1/8NPT, Male 1 = SAE 7/16-20 Straight 4 = 1/4NPT, Female

2 = 1/4NPT, Male

#### ELECTRICAL CONNECTIONS

0 = PT1H-10-6P2 = PT1H-8-4P

3 = 4-Wire Shielded Cable 4 = DIN 43650 Form C

5 = Hirschmann ELST 412

#### **CUSTOM CONFIGURATIONS**

00 = No Custom Requirements

- # Available Absolute and Vented Gage
- \* Available Sealed Gage Only
- \*\* Calibration in bars is also available. Contact factory for details.



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