

## Model 6-15

### BEI Edcliff Instruments Division

### SUBSEA Differential Pressure Transmitter

The Model 6-15 Differential Pressure Transducer is specifically designed for use in such deep-water applications as Wellhead Measurement, MUX Control Systems, and Subsea Blowout Preventers.

The Model 6-15 utilizes two individual Micro-Machined Silicon sensing dies whose output is electronically subtracted to provide a differential output signal. The Micro-Machined Silicon sensing dies are isolated from all media by a 316 stainless steel isolator 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  $\pm 0.25\%$  FSO with effectively no hysteresis, and a long term drift of less than 0.25% FSO for one year and proof pressures greater than 5x the rated line pressure.

The Model 6-15 is of all-welded 316 stainless steel construction that is compliant with MRO175-97 for corrosive service and is rated for a depth of 3000 meters (10,000 ft.).



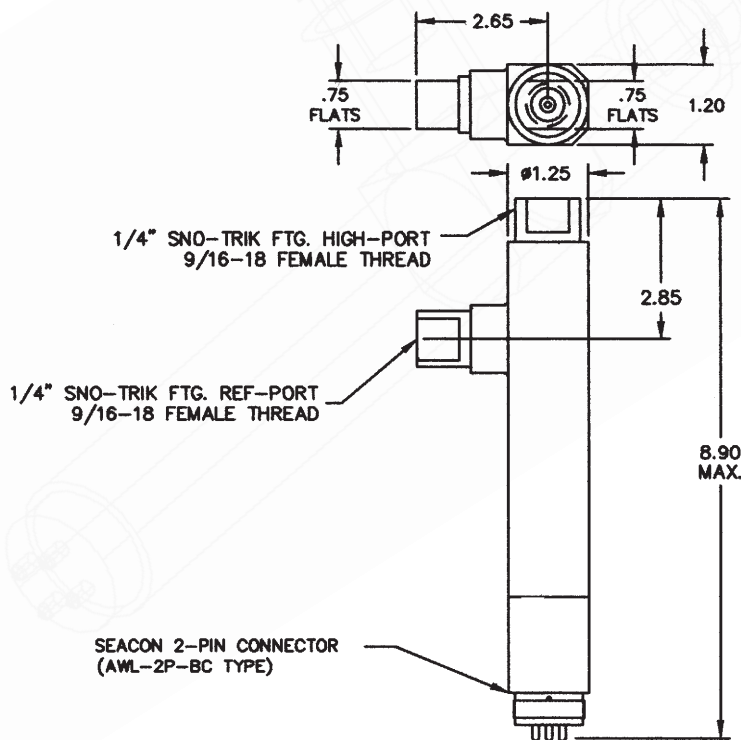
## Unique products

### Applications

Wellhead Measurement  
MUX Control Systems  
Subsea Blowout Preventers

### Features

All-Welded 316 Cres Construction  
Compliant with MRO175-97  
Exceptional Long-Term Stability  
Rated to a Depth of 3000 Meters  
No Hysteresis  
Static Error Band of  $\pm 0.25\%$  FSO



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



# Model 6-15 SUBSEA Differential Pressure Transmitter

## Product Specifications

IAW ANSI/ASA S37.1-75

### PERFORMANCE

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| OUTPUT SIGNAL                     | 4-20 mA                                           |
| ZERO & SPAN OFFSETS               | ±1.0% FSO @ 21°C                                  |
| ACCURACY L & R                    | ±0.25% of FSO @ 21°C (BFSL)                       |
| LONG-TERM STABILITY               | ±0.25% FSO/Year                                   |
| COMPENSATED TEMPERATURE           | -30° to +85°C (-22° to +185°F)                    |
| TEMPERATURE EFFECT ON ZERO & SPAN | ±0.50% FSO Over the Compensated Temperature Range |

### OPERATING

|                       |                                     |
|-----------------------|-------------------------------------|
| INPUT POWER           | 8 - 30 VDC                          |
| INSULATION RESISTANCE | 50 MEGOHMS @ 100 VDC                |
| DIELECTRIC STRENGTH   | 500 VAC, 50-60 Hz, 5 mA MAX, 1 MIN. |
| REVERSE POLARITY      | Current Limiting                    |
| PROOF PRESSURE        | 150% of Rated Range                 |
| BURST PRESSURE        | 200% of Rated Range or 30,000 PSI   |
| OPERATING LIFE        | 100 Million Full Scale Cycles       |

### ENVIRONMENTAL

|                               |                                        |
|-------------------------------|----------------------------------------|
| EMI/RFI                       | 100 Volts/Meter up to 1.0 Ghz          |
| WETTED PARTS                  | 316 Cres                               |
| ENCLOSURE                     | NEMA 4 & 4X                            |
| MAXIMUM OPERATING TEMPERATURE | -40° to +125°C (-40° to +250°F)        |
| VIBRATION                     | 15 g's 10-2000 Hz                      |
| SHOCK                         | 100 g's for 11 Milliseconds, Half-sine |

## Ordering Information

6 - 15 X - X X X X - X X

### INSTRUMENT FAMILY

6 = Micro-machined Silicon

### SENSOR TYPE

15 = Differential Pressure Transmitter 4-20 mA

### REFERENCE PRESSURE

0 = Absolute

### PRESSURE RANGES

00 = 200 PSI  
01 = 6000 PSI  
02 = 7500 PSI

### PRESSURE FITTINGS

0 = 2 x MS33656E4 (SAE J514-4)

### ELECTRICAL CONNECTIONS

0 = PT06E-10-6P  
1 = 1/2NPT 4-Wire Cable Conduit  
2 = PT06E-10-4P  
3 = Seacon AWL-2P-BC

### CUSTOM CONFIGURATIONS

00 = No Custom Requirements

**BEI** EDCLIFF INSTRUMENTS DIVISION  
SENSORS & SYSTEMS COMPANY

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