



## SUBMERSIBLE LEVEL TRANSMITTER

### Models 1102, 1103



#### APPLICATIONS:

- Industrial OEM
- Level & Depth
- Water & Waste Water Treatment
- Irrigation
- Groundwater Testing
- Food & Beverage

#### FEATURES:

- Low Cost, High Accuracy, High Reliability
- 0.5% FSO standard accuracy, 0.25% typical
- Small size - 1" diameter, lightweight
- Rugged, all welded construction
- 1/2" NPT conduit thread standard
- IP68 Rated
- Operating Temperature -40°F to +180°F

#### PRESSURE RANGES:

- From 0-15 to 0-500 PSIG

#### Accuracy:

- (Includes Hysteresis, Non-linearity, Non-Repeatability)
- 0.5% (BFSL)

#### Resolution:

- Infinite (Practical = 0.06% FSO)

#### Pressure Cavity Material:

- 316 SST and Inconel

#### Temperature Limits:

- Compensated: 0° F to 180° F
- Operating: -40° F to 180° F
- Storage: -40° F to 250° F

#### Temperature Compensation:

- Zero & Span: ±2.0% FSO/100°F

#### Electricals:

- Excitation Voltage:  
**(Model 1102)** 9.0 - 36 Vdc  
**(Model 1103)** 9.0 - 36 Vdc
- Output at 70° F: 0.5 Vdc ±2%. FSO
- Zero Balance: ±2.0% FSO
- Span Tolerance: ±2.0% FSO
- Insulation: 10 M Ohms at 50 Vdc Pin to Case

#### Mechanicals:

- Response Time: 5 ms
- Proof Pressure: 1.5 X Full Scale Output
- Burst Pressure: 3 X Full Scale Output

#### Connections:

- Pressure: PVC bullet nose
- Electrical Cable: 8' Molded polyurethane jacket, 6 conductor with breather tube.

#### WIRING:

RED  
GREEN  
BLACK  
SHIELD

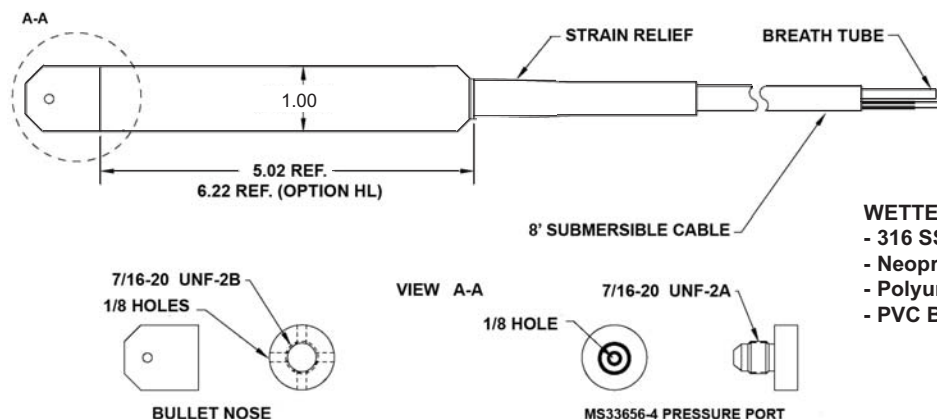
#### 1102

+EXC.  
+SIGNAL  
-EXC.  
OPEN

#### 1103

+EXC./SIGNAL  
NC  
-EXC./SIGNAL  
OPEN

Some options will affect dimensions. Consult factory if important.



#### WETTED PARTS:

- 316 SS Housing
- Neoprene Grommet
- Polyurethane Jacketed Cable
- PVC Bullet Nose



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Typical configurations (consult factory for more options)

#### MODELS

1102 0-5 Vdc  
1103 4-20 mA

#### PRESSURE RANGE (PSI)

PP 0-15  
PT 0-30  
PV 0-50  
PX 0-75  
PZ 0-100  
RB 0-150  
RD 0-200  
RE 0-250  
RF 0-300  
RH 0-500

#### PRESSURE TYPES

2 Gauge  
6 Sealed Gauge

#### OPTIONS

##### ALTERNATE CONNECTOR OR CABLE

AA None  
CZ Alternate cable or length

##### ALTERNATE PRESSURE PORT

FJ 1/4 NPT Male  
FL 1/8 NPT Male

##### GENERAL

GA Standardized FSO  
GB Alternate Electronic Output  
JH Remote Zero & Span Controls  
GZ Customer Special

#### NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.

**INTERTECHNOLOGY**  
INC.

19 Waterman Ave, Toronto, Ont. M4B1Y2

Ph#416-445-5500 Fax#416-445-1170

Toll Free: 1-800-465-1600

Email: sales@intertechnology.com

Website: www.intertechnology.com