



## LOW-COST SUBMERSIBLE LEVEL TRANSMITTER



Model BR1102 / 1103  
Low-Cost Submersible  
Level Transmitter

### MODEL BR1102 / 1103

#### FEATURES:

- Low-cost, high-reliability
- Submersible to 700 feet WC (213.4 meters WC)
- 1" (2.5 cm) diameter
- Up to  $\pm 0.2$  % FSO accuracy
- All 316L stainless steel construction (optional titanium)

#### APPLICATIONS:

- Wet wells, ponds, rivers and tank level measurements
- Water and waste water treatment
- Ground water monitoring
- Irrigation

#### PRODUCT OVERVIEW:

The Model 1102/1103 from Blue Ribbon Corporation is a family of submersible level transmitters, designed to provide high-accuracy measurements at a competitive price point. They are offered with an all 316L stainless steel construction for extended corrosion-free service life. An optional sludge screen is available for viscous media or wastewater applications.

#### FIELD OPTIONS:

- Lightning and surge protection
- Optional sludge screen for viscous media or wastewater
- Cable lengths to more than 3,000 ft with optional Tefzel® jacketed cable
- Optional Titanium construction



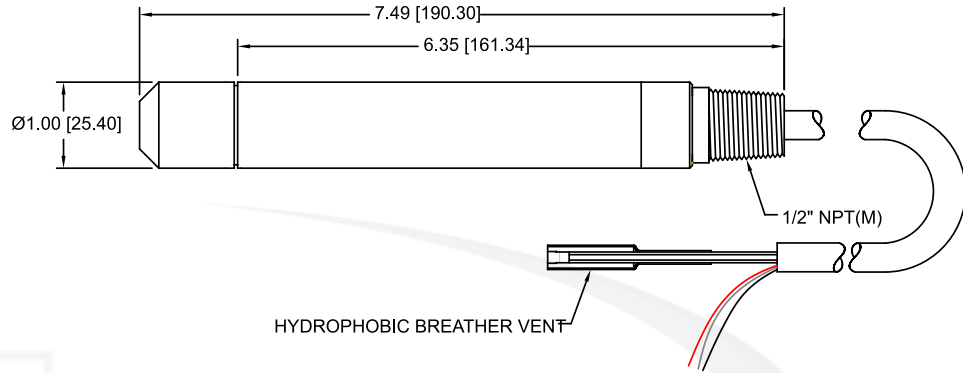
# LOW-COST SUBMERSIBLE LEVEL TRANSMITTER

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

WIRE	MODEL 1102	MODEL 1103
RED	+EXC	+EXC/SIG
GRN	+SIG	N/C
WHT	N/C	N/C
BLK	-EXC/SIG	-EXC/SIG
BLU	N/C	N/C
BRN	N/C	N/C
SHIELD	OPEN	OPEN



## REFERENCE SPECIFICATIONS

### ELECTRICAL

- **Supply Voltage:** 9 to 36 Vdc
- **Output Signal:**  
(1102) 0 to 5 Vdc  
(1103) 4-20 mA
- **Circuit Protection:** Lightning and surge protection optional
- **Response Time:** <5 ms
- **Connection:** 1/2" NPT (M) conduit with 8.5' of 18 AWG, 4 conductor, shielded, Hytrel jacketed cable with integral vent tube and hydrophobic filter

### STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

Standard:  $\pm 0.5\%$  FSO  
 Improved:  $\pm 0.2\%$  FSO  
 Zero & Span Balance:  $\pm 2.0\%$  FSO

### MATERIALS OF CONSTRUCTION

- **Housing and Pressure Cavity:**  
316 stainless steel (Optional Titanium)
- **Cable:** Hytrel (Optional Tefzel)

### MECHANICAL

- **Process connection:** 7/16-20 (M) with PVC bullet nose
- **Proof Pressure:** 1.5X FSO
- **Burst Pressure:** 3X FSO
- **Weight:** <12 oz (340 g)
- **Diameter:** 1" (25.4 mm)

### PRESSURE RANGES

- 0 to 5 PSI thru 0 to 300 PSI (344 mBAR thru 21 BAR)
- 0 to 12 FTWC thru 0 to 700 FTWC (762 mm thru 213 m WC)

### THERMAL SPECIFICATIONS

- **Compensated:** 0° F to +140 °F (-7 °C to +60 °C)
- **Operating Temperature:** -40 °F to +185 °F (-40 °C to +85 °C)
- **Storage:** -40 °F to +195 °F (-40 °C to +90.6 °C)
- **Effect on Zero/Span:** <  $\pm 2.0\%$  FSO/100 °F

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.

