



## LOW-COST SUBMERSIBLE LEVEL TRANSMITTER

### MODEL 1102 / 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 GP:50 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<sup>®</sup> jacketed cable
- Optional Titanium construction



Model 1102 / 1103  
Submersible Level Transmitter



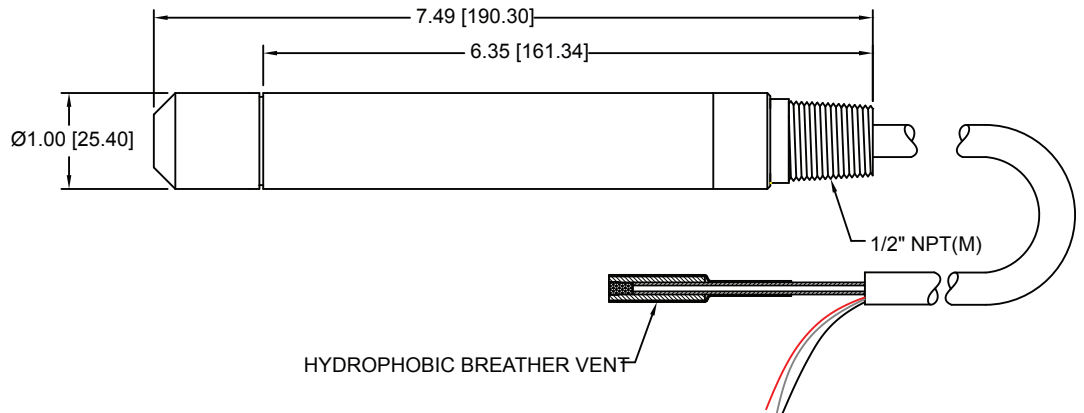
# GP:50 MODEL 1102 / 1103

## 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   |
|--|
| <ul style="list-style-type: none"> <li>• <b>Supply Voltage:</b> 9 to 36 Vdc</li> <li>• <b>Output Signal:</b><br/>(1102) 0 to 5 Vdc<br/>(1103) 4-20 mA</li> <li>• <b>Circuit Protection:</b> Lightning and surge protection optional</li> <li>• <b>Response Time:</b> &lt;5 ms</li> <li>• <b>Connection:</b> 1/2" NPT (M) conduit with 8.5' of 18 AWG, 4 conductor, shielded, Hytrel jacketed cable with integral vent tube and hydrophobic filter</li> </ul> |
| STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)   |
| Standard: ±0.5% FSO  |
| Improved: ±0.2% FSO  |
| Zero & Span Balance: ±2.0% FSO   |
| MATERIALS OF CONSTRUCTION  |
| <ul style="list-style-type: none"> <li>• <b>Housing and Pressure Cavity:</b><br/>316 stainless steel (Optional Titanium)</li> <li>• <b>Cable:</b> Hytrel (Optional Tefzel)</li> </ul>  |

| MECHANICAL   |
|--|
| <ul style="list-style-type: none"> <li>• <b>Process connection:</b> PVC protective nose over a 7/16-20 port (M)</li> <li>• <b>Proof Pressure:</b> 1.5X FSO</li> <li>• <b>Burst Pressure:</b> 3X FSO</li> <li>• <b>Weight:</b> &lt;12 oz (340 g)</li> <li>• <b>Diameter:</b> 1" (25.4 mm)</li> </ul>                    |
| PRESSURE RANGES  |
| <ul style="list-style-type: none"> <li>• 0 to 5 PSI thru 0 to 300 PSI (344 mBAR thru 21 BAR)</li> <li>• 0 to 30" WC thru 0 to 700 ft WC (762 mm thru 213 m WC)</li> </ul>  |
| THERMAL SPECIFICATIONS   |
| <ul style="list-style-type: none"> <li>• <b>Compensated:</b> 0° F to +140 °F (-7 °C to +60 °C)</li> <li>• <b>Operating Temperature:</b> -40 °F to +185 °F (-40 °C to +85 °C)</li> <li>• <b>Storage:</b> -40 °F to +195 °F (-40 °C to +90.6 °C)</li> <li>• <b>Effect on Zero/Span:</b> &lt; ±2.0% FSO/100 °F</li> </ul> |

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.