

## SUBMERSIBLE LEVEL TRANSMITTER

### MODEL 313L

#### FEATURES:

- Available ranges of 0-20" WC thru 300 PSI (50 MBAR to 21 BAR)
- Case rated to 900 feet WC (275 meters WC)
- Up to  $\pm 0.10\%$  FSO accuracy
- 316L stainless steel housing with optional titanium
- Hytrel jacketed cable with optional Tefzel®
- Lightning suppression as standard

#### APPLICATIONS:

- Wet wells, ponds, rivers and tank level measurements
- Water treatment
- Ground water monitoring
- Dredging levels
- Shipboard level control

#### PRODUCT OVERVIEW:

The Model 313L from GP:50 is a line of highly accurate and reliable submersible level transmitters. The corrosion-resistant 316L stainless steel construction, and an integrated hydrophobic breather vent help provide years of maintenance-free service.

#### FIELD OPTIONS:

- Slim 0.69" (1.74 cm) diameter (Model 313S)
- Titanium construction (Model 313L-NI)
- Additional Hytrel cable and Tefzel® jacketed cable lengths
- Tapered inlet with stand-off plate for wastewater
- Remote zero and span adjustments



Model 313L  
Submersible Level Transmitter

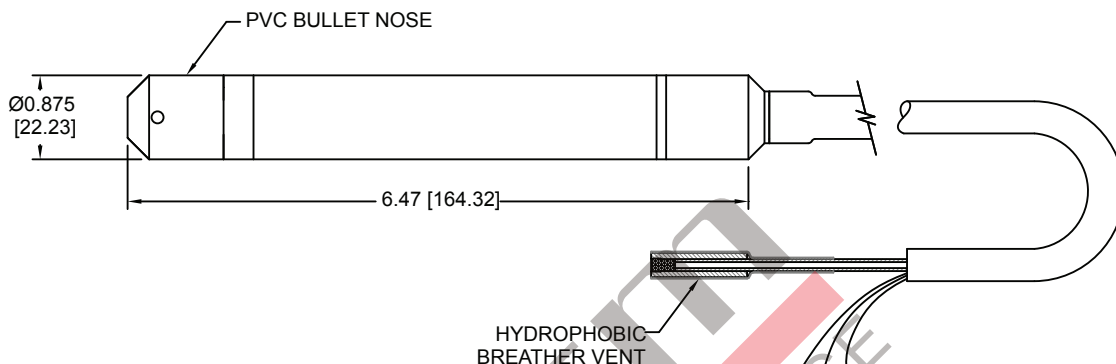
# GP:50 MODEL 313L

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

WIRE	MODEL 313L
RED	+EXC/SIG
BLK	-EXC/SIG
GRN	N/C
WHT	N/C
SHIELD	OPEN



## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> <li>• <b>Excitation Voltage:</b> 9 to 36 Vdc</li> <li>• <b>Output Signal:</b> 4-20 mA</li> <li>• <b>Circuit Protection:</b> Short circuit or reversed wired – Indefinite</li> <li>• <b>Load Resistance:</b> 1400 Ω max. at 40 Vdc excitation</li> <li>• <b>Response Time:</b> ≤5 ms to 90%</li> <li>• <b>Connection:</b> Hytrel jacketed, 4-conductor, 18 AWG with vent tube and hydrophobic filter, 8' long, other lengths available.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Zero Balance and FSO:</b> ±1.0% FSO @ +70 °F</li> <li>• <b>Process Connection:</b> PVC bullet nose</li> <li>• <b>External Pressure:</b> Rated to 900 ft WC (274 meters) max.</li> <li>• <b>Proof Pressure:</b> 2X FSO</li> <li>• <b>Burst Pressure:</b> 4X FSO</li> <li>• <b>Approximate Weight:</b> 10 oz (0.3 kg) nominal, options may increase weight</li> <li>• <b>Diameter:</b> 0.875" (2.22 cm)</li> </ul>
MATERIALS OF CONSTRUCTION	PRESSURE RANGES
<ul style="list-style-type: none"> <li>• <b>Housing:</b> 316L stainless steel, optional titanium</li> <li>• <b>Pressure Cavity:</b> 316L stainless steel</li> </ul>	<ul style="list-style-type: none"> <li>• 0-20" WC thru 300 PSI (50 MBAR to 21 BAR)</li> </ul>
STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	THERMAL SPECIFICATIONS
Standard: ±0.5% FSO, ±0.2% FSO, and ±0.1% FSO	<ul style="list-style-type: none"> <li>• <b>Compensated:</b> 0 °F to +140 °F (-32 °C to +60 °C)</li> <li>• <b>Operating:</b> -40 °F to +150 °F (-40 °C to +65.5 °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>

**Standard configurations shown.  
Please consult factory for other options.**

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.