

## SERIAL / DIGITAL INTERFACE SUBMERSIBLE LEVEL TRANSMITTER



Model 913  
Serial / Digital Interface  
Submersible Level Transmitter

### MODEL 913

#### FEATURES:

- SDI-12 interface
- 0-30" WC to 0-700 feet WC (762 mm to 213 meters WC)
- Welded, leak-proof, 316L stainless steel construction
- Optional 0.685" (1.7 cm) diameter
- Up to  $\pm 0.05\%$  FSO accuracy
- Optional Tefzel® jacketed cable

#### APPLICATIONS:

- Remote well monitoring (Wet wells, ponds, rivers)
- Ground water monitoring
- Tank level measurements
- Water treatment
- Irrigation systems

#### PRODUCT OVERVIEW:

The Model 913 from GP:50 is a high-accuracy submersible level transmitter. It features an asynchronous serial communication output (SDI-12-v 1.3), typically used to monitor environmental data. This also allows for communication with compatible data loggers or data acquisition systems. The incorporation of a hydrophobic breather vent ensures extended trouble-free service within demanding applications. These features, combined with the low power requirements of the Model 913, make it particularly ideal for remote well monitoring applications.

#### FIELD OPTIONS:

- Available in 0.875 or 0.685" (2.2 or 1.7 cm) diameter
- Hytrel or Tefzel® jacketed cable
- Titanium construction

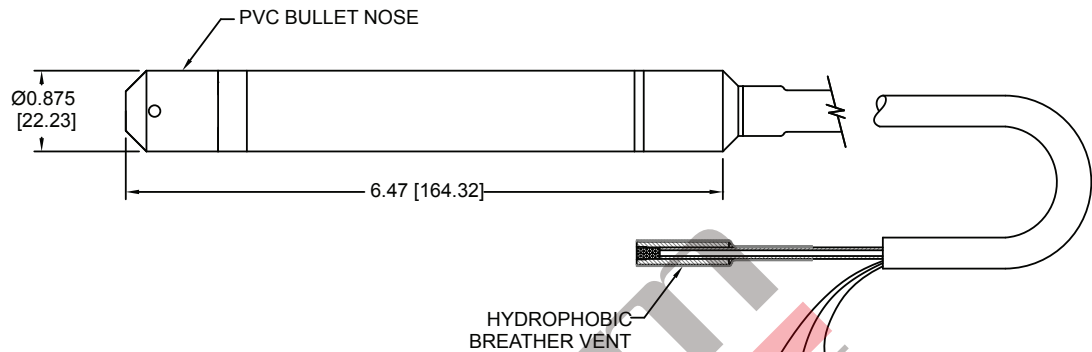
# GP:50 MODEL 913

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

WIRE	MODEL 913
RED	+EXC
BLK	-EXC
GRN	SDI-12 DATA
WHT	N/C
SHIELD	OPEN



## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"><li>• <b>Supply Voltage:</b> 6.0 to 36 Vdc</li><li>• <b>Output Signal:</b> SDI-12- standard version 1.3</li><li>• <b>Input Impedance:</b> &gt; 10 MΩ</li><li>• <b>Resolution:</b> 24 BIT</li><li>• <b>Baud Rate:</b> 1200 baud</li><li>• <b>Circuit Protection:</b> Short circuit or reversed wired – Indefinite Input protection and EMC filtering</li><li>• <b>Response Time:</b> 1 sec.</li><li>• <b>Idle Current:</b> &lt;50 μA, &lt;15 mA consumption during measurement</li><li>• <b>Connection:</b> Hytrel jacketed, 4-conductor, 18 AWG with vent tube and hydrophobic filter, 8' long, additional lengths available</li></ul>	<ul style="list-style-type: none"><li>• <b>Process connection:</b> PVC bullet nose</li><li>• <b>External Pressure:</b> Case rated to 900 feet WC (275 meters WC)</li><li>• <b>Proof Pressure:</b> 2X FSO</li><li>• <b>Burst Pressure:</b> 3X FSO</li><li>• <b>Weight:</b> &lt;10 oz (284 g)</li><li>• <b>Diameter:</b> 0.875" (2.2 cm) standard, 0.685" (1.7 cm) optional</li></ul>
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	PRESSURE RANGES
<ul style="list-style-type: none"><li>• Standard: ±0.5% FSO</li><li>• Improved: ±0.2% FSO, ±0.1% FSO, ±0.5% FSO</li><li>• Zero Balance and FSO: ±1.0% FSO</li></ul>	<ul style="list-style-type: none"><li>• 0-30" WC to 0-700 feet WC (762 mm to 213.4 meters WC)</li></ul>
MATERIALS OF CONSTRUCTION	THERMAL SPECIFICATIONS
<ul style="list-style-type: none"><li>• <b>Housing:</b> 316L stainless steel (Optional titanium)</li><li>• <b>Pressure Cavity:</b> 316L stainless steel (Optional titanium)</li></ul>	<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><li>• <b>Temperature Resolution:</b> ±0.1 °C</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.