

## SLIM SUBMERSIBLE LEVEL TRANSMITTER



Model 313S  
Slim Submersible Level Transmitter

### MODEL 313S

#### FEATURES:

- Slim 0.635" (16mm) diameter housing
- 0 to 20" WC thru 300 PSI (211 meters WC)
- 4-20 mA output
- Rugged, welded, leak-proof stainless steel construction
- Silicon sensor technology
- Up to 0.10% FSO accuracy
- Hydrophobic breather filter

#### APPLICATIONS:

- Sewage lift and pump stations
- Deep well and borehole
- Groundwater monitoring
- Shipboard level control
- Weirs, wells, pond, reservoir, and dam level

#### PRODUCT OVERVIEW:

Model 313S has all the same features as our popular 313L but with a slim 0.635" (16mm) diameter housing for those applications that have limited installation space. All GP:50 submersible level transmitters are built with a rugged leak-proof stainless steel construction, lightning surge protection and an integrated hydrophobic filter to provide accurate level measurement with years of corrosion free service for all types of level applications.

#### FIELD OPTIONS:

- Tapered inlet with stand-off plate for wastewater
- Remote zero and span adjustments
- Lightning suppression
- Additional Hytrel cable and Tefzel® jacketed cable lengths

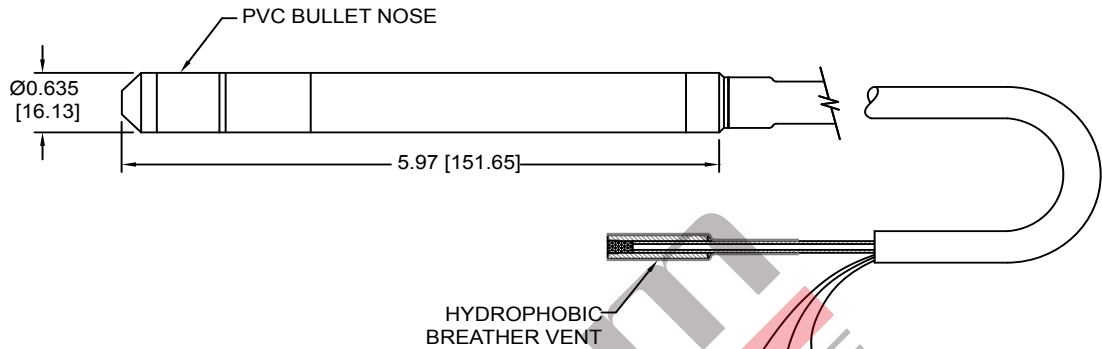
# GP:50 MODEL 313S

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

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



## REFERENCE SPECIFICATIONS

### ELECTRICAL

- Excitation Voltage: 8 to 36 Vdc
- Output Signal: 4-20 mA output
- Circuit Protection: Short circuit or reversed wired – Indefinite
- Load Resistance: 1400 Ω max. at 40 Vdc excitation
- Response Time: ≤5 ms to 90%
- Connection: Molded Hytrel jacket, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel cable optional

### MATERIALS OF CONSTRUCTION

- Housing: Type 316 stainless steel

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

Standard: ±0.5% FSO, ±0.2% FSO, and ±0.1% FSO

### MECHANICAL

- Zero Balance and FSO: ±1.0% FSO @ +70 °F
- Process Connection: PVC bullet nose
- External Pressure: Rated to 500 PSI (35 BAR) max.
- Proof Pressure: 2X FSO
- Burst Pressure: 4X FSO
- Approximate Weight: 10 oz (0.3 kg) nominal, options may increase weight
- Diameter: 0.635" (16mm)

### PRESSURE RANGES

- 0-20" WC thru 500 PSI (50 MBAR to 35 BAR)

### THERMAL SPECIFICATIONS

- Compensated: 0 °F to +140 °F (-32 °C to +60 °C)
- Operating: -40 °F to +150 °F (-40 °C to +65.5 °C)
- Storage: -40 °F to +150 °F (-40 °C to +65.5 °C)
- Effect on Zero/Span: <±2.0% FSO/100 °F

**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.