



TITANIUM SUBMERSIBLE LEVEL TRANSMITTER



Model 313L-NI
Titanium Submersible Level Transmitter

MODEL 313L-NI

FEATURES:

- 0 to 20" WC thru 0 to 300 PSI (692 feet WC)
- 4-20 mA output
- Rugged, welded, leak-proof construction
- Slim 1.0" (2.5 cm) diameter titanium housing
- Up to 0.10% FSO accuracy

APPLICATIONS:

- Deep well and borehole
- Groundwater monitoring
- Reservoirs / dams
- Rig ballast control
- Weirs, wells, pond, reservoir, and dam level

PRODUCT OVERVIEW:

Model 313L-NI utilizes an all-titanium design to provide long term stability and continued performance under the harshest conditions, including corrosive and hazardous chemical applications. The slim design and high media resistance perform exceptionally well in down-hole applications that often have tight space constraints and caustic environmental conditions.

FIELD OPTIONS:

- 1.0" and 0.69" (1.74 cm) housing diameter
- Remote zero-span adjust
- Lightning suppression
- Additional lengths, Tefzel® or Hytrel jacketed cable

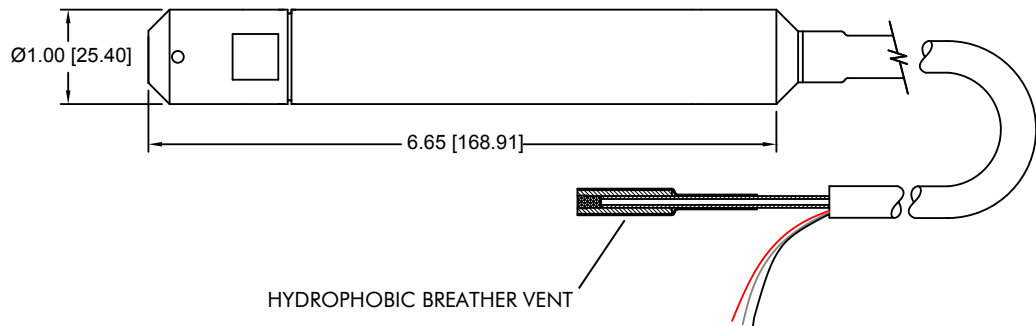
GP:50 MODEL 313L-NI

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

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



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Supply 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 Hytel jacketed, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel jacketed cable optional

MATERIALS OF CONSTRUCTION

- **Housing:** Titanium
- **Wetted Material:** Titanium / Ceramic and Viton

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

Standard: $\pm 0.5\%$ FSO, $\pm 0.2\%$ FSO, and $\pm 0.1\%$ FSO

MECHANICAL

- **Zero Balance and FSO:** $\pm 1.0\%$ FSO @ +70 °F
- **Process Connection:** PVC bullet nose
- **External Pressure:** Rated to 500 PSI (1,153 ft WC) max.
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 4X FSO
- **Approximate Weight:** 10 oz (0.3 kg) nominal, options may increase weight
- **Diameter:** 0.875" (2.22 cm)

PRESSURE RANGES

- 0-20" WC thru 300 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:** $< \pm 2.0\%$ FSO/100 °F at full scale

**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.

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