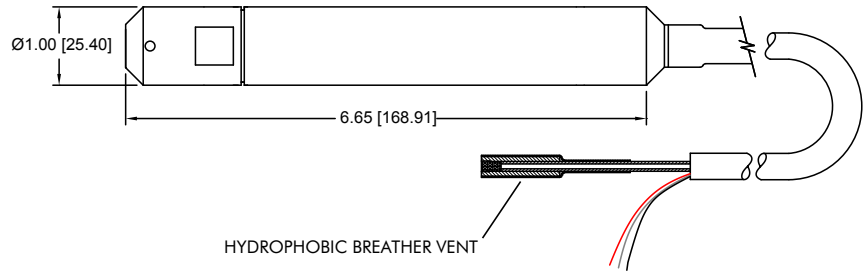


MODEL 313L-NI TITANIUM SUBMERSIBLE LEVEL TRANSDUCER



STANDARD WIRING

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



Inches (mm)

**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

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.

FEATURES:

- 5 PSI (138"WC) thru 0 to 300 PSI (692 FTWC)
- 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

OPTIONS:

- Remote zero-span adjust
- Lightning suppression
- Additional lengths, Tefzel® or Hytel jacketed cable

GP:50 MODEL 313L-NI

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	4-20 mA output
Excitation Voltage:	9 to 36 Vdc
Circuit Protection:	Short circuit or reverse wired – Indefinite
Response Time:	≤5 ms to 90%

MATERIALS OF CONSTRUCTION	
Wetted Parts:	Titanium & Hytrel
Housing:	Titanium
Internal Fill:	Silicone Oil

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	±0.5% FSO
Improved:	±0.2% FSO and ±0.1% FSO
Zero & Span Balance:	±1.0% FSO @ +70 °F

MECHANICAL	
Process Connection:	¼" NPT (F) with PVC bullet nose
Electrical Connection:	Hytrel jacketed, 6-conductor, 24 AWG integral breather tube, 8' long (optional lengths & Tefzel jacketed) cable
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:	1" (2.5 cm)

PRESSURE RANGES	
5 PSI (138"WC) thru 300 PSI (692 FTWC) (345 mBAR to 20 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +150 °F (-40 °C to +65.5 °C)
Compensated Range:	0 °F to +140 °F (-17.7 °C to +60 °C)
Storage Ambient:	-40°F to +250 °F (-40 °C to +121 °C)
Effect on Zero/Span:	±2.0% FSO/100 °F at full scale

