

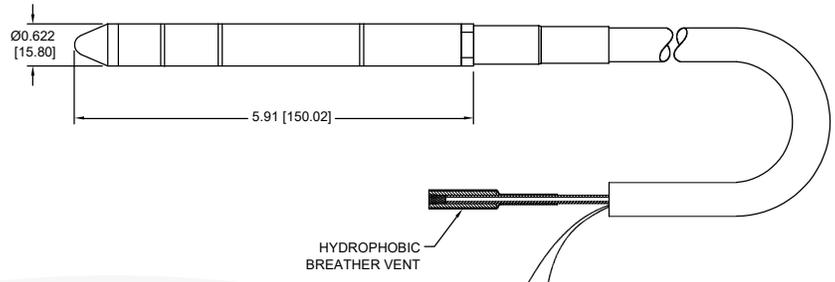
## MODEL 313R

### SLIM SUBMERSIBLE LEVEL TRANSMITTER



STANDARD WIRING

WIRE	MODEL 313R
RED	+EXC/SIG
GRN	-EXC/SIG



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

#### PRODUCT OVERVIEW:

Model 313R has all the same features as our popular 313L but with a slim 0.622" (15.8 mm) 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.

#### FEATURES:

- Slim 0.622" (15.8mm) diameter housing
- 0 to 40" WC thru 285 PSI (200 meters WC)
- 4-20 mA output
- Rugged, welded, leak-proof stainless steel construction
- Silicon sensor technology
- Up to 0.25% FSO accuracy
- Hydrophobic breather filter
- CE certified

#### APPLICATIONS:

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

#### OPTIONS:

- Lightning suppression
- Additional cable lengths available

# GP:50 MODEL 313R

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA, 0 to 5 Vdc, and 1-5 Vdc
Excitation Voltage:	9 to 32 Vdc
Load Resistance:	1400 $\Omega$ max. at 40 Vdc excitation
Circuit Protection:	Short circuit or reversed wired - Indefinite
Response Time:	$\leq 5$ ms to 90%

MATERIALS OF CONSTRUCTION	
Housing:	All 316 stainless steel construction of sensor, baffle plate and housing

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	$\pm 0.5\%$
Improved:	$\pm 0.25\%$
Zero/Span Balance:	$\pm 1.0\%$ FSO at +70 °F

MECHANICAL	
Process Connection:	Stainless steel bullet nose
Electrical Connection:	40 ft Polyurethane jacketed cable with integrated vent tube and hydrophobic filter, additional lengths, Teflon cable optional
Proof Pressure:	1.5X FSO
Burst Pressure:	4X FSO
External Pressure:	Rated to 500 PSI (35 BAR) max.
Approximate Weight:	10 oz (0.3 kg) nominal, options may increase weight
Diameter:	0.622" (15.8 mm)

PRESSURE RANGES	
• 0-40" WC thru 285 PSI (200 MWC)	

THERMAL SPECIFICATIONS	
Operating:	-4 °F to +185 °F (-20 °C to +85 °C)
Compensated:	14 °F to +160 °F (-10 °C to +70 °C)
Storage:	-40 °F to +250 °F (-40 °C to +121 °C)
Effect on Zero/Span:	$< \pm 2.0\%$ FSO/100 °F

