

## MODEL 313AI

### SUBMERSIBLE LEVEL TRANSMITTER FOR HAZARDOUS LOCATIONS



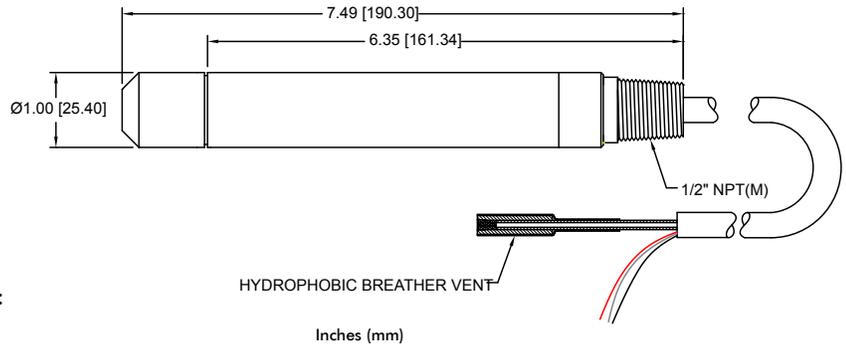
#### STANDARD WIRING

WIRE	MODEL 313AI
RED	+EXC/SIG
BLK	-EXC/SIG
DRN	CASE GND

#### Current Approvals:



#### Pending Approvals:



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

#### PRODUCT OVERVIEW:

The GP:50 Model 313AI is an ATEX intrinsically safe submersible level transmitter, providing high-accuracy level measurements for hazardous locations. The corrosion-resistant 316L stainless steel construction, integrated lightning suppression and hydrophobic breather vent help provide years of maintenance-free service.

#### FEATURES:

- ATEX & IEC approvals
- Submersible to 700 FTWC (213.4 meters WC)
- 1" diameter
- FM & CSA approvals pending
- All 316L stainless steel construction
- Lightning suppression standard

#### APPLICATIONS:

- Wet wells, ponds, rivers and tank level
- Water treatment
- Ground water monitoring
- Irrigation

#### OPTIONS:

##### Currently Available:

- ATEX/IEC Intrinsically Safe: II 1 G Ex ia IIC T5 Ga

##### Pending:

- ATEX/IEC Zone 2: II 3 G Ex nA/ic IIC T5 Gc
- FM, CSA Intrinsically Safe: Class I, Division 1, Groups A-G, T5, Ex ai IIC T5
- FM/CSA: Division/ Zone 2: Class I Division 2, Groups A-G, T5, Ex nC/nA/nL T5

# GP:50 MODEL 313AI

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA
Excitation Voltage:	9 to 28 Vdc
Circuit Protection:	Lightning and surge protection optional
Response Time:	< 5ms

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316L SS, PVC, Neoprene, and Hytrel jacketed cable
Housing:	316L SS
Cable Jacket Material:	Hytrel (Tefzel optional)
Cable Seal:	Viton (Optional materials available)
Nose Cap:	PVC

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	±0.5% FSO
Improved:	±0.2% FSO
Zero & Span Balance:	±2% FSO

MECHANICAL	
Process Connection:	AS43905E4 (M) w/PVC bullet nose
Electrical Connection:	1/2" NPT (M) conduit 8' of 18 AWG, 4 conductor, shielded, Hytrel jacketed cable with integral vent tube and hydrophobic filter (additional lengths available)
Proof Pressure:	2.0X FSO
Burst Pressure:	4.0X FSO
Approximate Weight:	< 12 oz. (340 g)
Diameter:	1" (25.4 mm)

PRESSURE RANGES	
0 to 2 PSI thru 0 to 300 PSI (138 mBAR thru 21 BAR)	
0 to 4 FTWC thru 0 to 700 FTWC (1219 mm thru 213 m WC)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +185 °F (-40 °C to +85 °C)
Compensated Range:	0 °F to +140 °F (-17.7 °C to +60 °C)
Storage:	-40 °F to +195 °F (-40 °C to +90.6 °C)
Effect on Zero/Span:	< ±2.0% FSO/100 °F

APPROVALS	
ATEX/IEC Intrinsically Safe: II 1 G Ex ia IIC T5 Ga	

PENDING APPROVALS	
ATEX/IEC Zone 2: II 3 G Ex nA/ic IIC T5 Gc	
FM, CSA Intrinsically Safe: Class I, Division 1, Groups A-G, T5, Ex ai IIC T5	
FM/CSA: Division/ Zone 2: Class I Division 2, Groups A-G, T5, Ex nC/nA/nL T5	

