

MODEL 313F

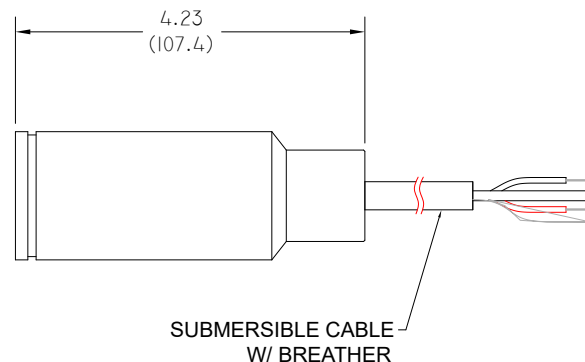
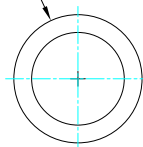
FLUSH SUBMERSIBLE LEVEL TRANSMITTER



STANDARD WIRING

WIRE	MODEL 313F
RED	+EXC/SIG
BLK	GND
GRN	-EXC/SIG
WHT	N/C
SHIELD	BLK

Ø1.55
(39.4)



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

PRODUCT OVERVIEW:

The Model 313F utilizes a 1.06" flush ceramic diaphragm that inhibits grease and biosolid buildup typically found in water treatment level applications. This flush ceramic design saves cost by eliminating sensor clean-out found with many other non flush designs. The corrosion-resistant 304SS construction, and an integrated hydrophobic breather vent help provide years of maintenance-free service.

FEATURES:

- Large, flush ceramic diaphragm
- 0 to 20 INWC thru 0 to 285 PSI
- Corrosion resistant, leak-proof construction
- PTFE, PUR or PE cable with FKM flourine seal
- Designed to 500 PSI external pressure
- Flush design saves cost & down time by eliminating sensor clean up

APPLICATIONS:

- Lift station level monitoring
- Tanks and reservoir levels
- Process sumps
- Sludge or slurry levels

FIELD OPTIONS:

- PTFE, PUR, or Polyurethane jacketed cable
- Titanium, or 316L SS housing

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REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA output
Excitation Voltage:	12 to 36 Vdc
Load Resistance:	100 MΩ at 50 Vdc excitation
Circuit Protection:	Short circuit or reversed wired – Indefinite
Response Time:	≤3 ms to 90%

MATERIALS OF CONSTRUCTION	
Housing:	304 SS (optional 316L or Titanium)
Sensor:	Ceramic Al2O3 - 96%
Cable:	PTFE, PUR or PE available
Cable Seal:	FKM flourine

ACCURACY (RSS): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	±0.5% FSO
Improved:	±0.25% FSO, and ±0.1% FSO
Zero & Span Balance:	±1.0% FSO @ +70 °F

MECHANICAL	
Zero Balance and FSO:	+0.75% FSO @ +70 °F
Process Connection:	1.06" flush ceramic diaphragm
External Pressure:	Rated to 500 PSI (1,153 ft WC) max.
Proof Pressure:	1.5X FSO
Burst Pressure:	4X FSO
Approximate Weight:	10 oz. (240 g) nominal, options may increase weight
Diameter:	1.575"

PRESSURE RANGES	
20 INWC to 0-285 PSI	

THERMAL SPECIFICATIONS	
Operating Range:	-4 °F to +158 °F (-20 °C to +70 °C)
Compensated Range:	+14 °F to +158 °F (-10 °C to +70 °C)
Storage Ambient:	-40 °F to +180 °F (-40 °C to +82 °C)
Effect on Zero/Span:	<±2.0% FSO/100 °F at full

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