



SUBMERSIBLE PUMP LIFT STATION / SLUDGE LEVEL TRANSMITTER

MODEL 311-M351



Model 311-M351
Submersible Pump Lift Station /
Sludge Level Transmitter



(Approvals Optionally Available)

FEATURES:

- 3-inch diameter sensing diaphragm resists clogging
- Protective baffle plate reduces risk of sensor damage
- Corrosion-resistant, all stainless steel construction
- Submersible to 1,100 feet (335 meters) WC
- Surge protection from lightning strikes and voltage spikes
- Ranges from 0 to 10 thru 0 to 1,100 feet WC (0 to 3 thru 0 to 335 meters WC)

APPLICATIONS:

- Submersible pump lift station level monitoring
- Wet wells
- Process sumps
- Water tanks and reservoirs
- Process sludge (including heavy sludge)
- Water and wastewater level monitoring

PRODUCT OVERVIEW:

The Model 311-M351 from GP:50 is a submersible lift station and sludge level transmitter. Its all stainless-steel design incorporates a 3-inch diameter clog-resistant sensing diaphragm and corrosion-resistant protective baffle plate. These features facilitate high-accuracy level measurements, even in heavy sludge conditions. This combination of durability and accuracy, along with over 25 years of proven field service, have helped make the GP:50 Model 311-M351 an industry gold standard for water and wastewater level monitoring.

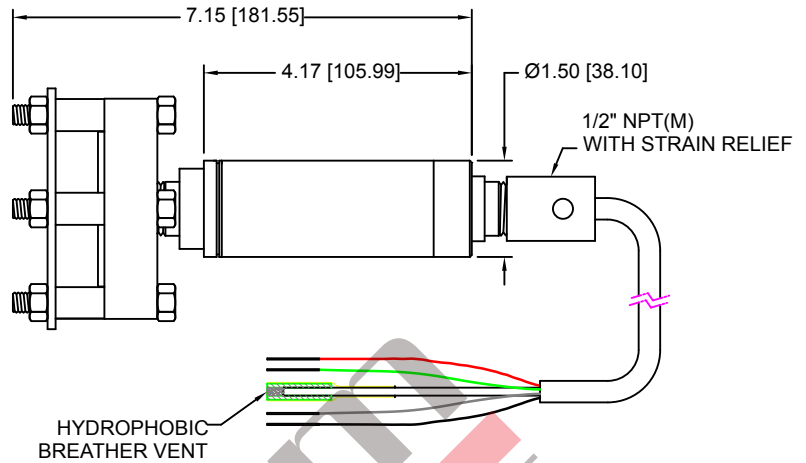
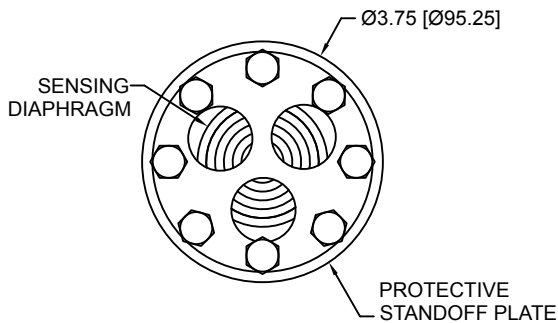
FIELD OPTIONS:

- Optional FM/CSA hazardous approvals
- External lightning / surge protection package optional
- 4-20 mA or 0 to 5 Vdc output
- Optional temperature output

GP:50 MODEL 311-M351

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



STANDARD WIRING

WIRE	MODEL 211-M351	MODEL 311/I-M351
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C
SHIELD	OPEN	OPEN

REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> • Supply Voltage: (Model 211-M351) 10.5 to 42 Vdc (Model 311/I-M351) 9 to 36 Vdc • Output Signal: (Model 211-M351) 0 to 5 Vdc (Model 311/I-M351) 4-20 mA • Circuit Protection: RFI and EMI surge protection • Load Impedance: (Model 211-M351) 50K Ω min. for <0.1% FSO attenuation (Model 311/I-M351) 1,350 Ω max. at 36 Vdc and 750 Ω at 24 Vdc • Input Current: (Model 211-M351) 8 mA, nominal • Insulation Resistance: > 10 MΩ at 50 Vdc and +70 °F • Connection: 1/2" NPT (M) conduit with 40 feet of 3-conductor, 18 AWG Hytrel jacketed cable (optional Tefzel jacketing)
MATERIALS OF CONSTRUCTION
All 316 stainless steel construction of sensor, baffle plate and housing

STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard $\pm 0.5\%$ Optional $\pm 0.2\%$
• Zero Balance and FSO: $\pm 1\%$ FSO at +70 °F
MECHANICAL
<ul style="list-style-type: none"> • Process Connection: Oil filled diaphragm • Proof Pressure: 2X FSO or 22,500 PSI (1,551 BAR), whichever is less • Burst Pressure: 5X FSO or 22,500 PSI (1,551 BAR), whichever is less • External Pressure: 500 PSI max. (35 BAR) • Weight: 5.5 lb (2.5 kg)
PRESSURE RANGES
0 to 5 thru 0 to 500 PSI (0 to 10 feet thru 0 to 1,153 feet WC) (0 to 3 thru 0 to 335 meters WC)
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> • Compensated: -0 °F to +140 °F (-17.7 °C to +60 °C) • Operating Ambient: -40 °F to +150 °F (-40 °C to +66 °C) • Effect on Zero/Span: $\pm 2.0\%$ FSO/100 °F

**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.