



## SUBMERSIBLE LIFT STATION / SLUDGE LEVEL TRANSMITTER Model 311-M351



### FEATURES:

- All-welded, stainless steel construction
- Rugged, all encapsulated electronics
- Leakproof
- Intrinsically safe
- RFI and surge protection
- 3 mV/V, 0-5 Vdc, 4-20 mA outputs

### PRESSURE RANGES:

- From 0-5 to 0-500 psi

### APPLICATIONS:

- Raw sewage wetwells
- Lift station level
- Process sumps
- Water tanks and reservoirs

### ACCURACY:

- 0.5% FSO standard, 0.25% available

### Accuracy:

- Static error band (Includes Hysteresis, Non-linearity, Non-Repeatability)  $\pm 0.5\%$  FSO RSS, standard,  $\pm 0.25\%$  FSO (RSS) optional

### Temperature Limits:

- Compensated: 0° F to +140° F
- Operating Models 111, 211, 311: -40° F to +150° F
- Effect on Zero & Span: Less than  $\pm 2.0\%$  FSO/100° F for each.

### Electricals:

- Excitation Voltage:
  - (Model 111) 3.5-15 Vdc
  - (Model 211) 10.5-42 Vdc
  - (Model 311/311Z) 9-36 Vdc
- Input Current:
  - (Model 211) 8 mA, nominal
- Output Current:
  - (Model 211) 2.0 mA max. for less than 0.1% FSO attenuation.
- Input Impedance: (Model 111) 5,000 ohm nominal.
- Load Impedance:
  - (Model 211) 50,000 ohms min. for less than 0.1% FSO attenuation
  - (Model 311) 1350 ohms max. at 36 Vdc & 750 ohms at 24 Vdc
- Range Calibration Signal:
  - (Model 111) Resistance value provided on calibration card for 100% FSO
  - (Model 211 & 311) see option GH
- Zero Balance:  $\pm 1\%$  FSO at 70° F
- Insulation Resistance: Greater than 10 megohms at 50 Vdc and 70° F
- Resolution: infinite

### Mechanicals:

- Proof Pressure: 2 X full scale pressure
- Burst Pressure: 5 X full scale pressure
- External Pressure: 500 psi max.
- Case Materials: Types 316 SST
- Weight: 5.5 lbs.
- Materials in contact with measured fluids: Type 316 SST

### Connections:

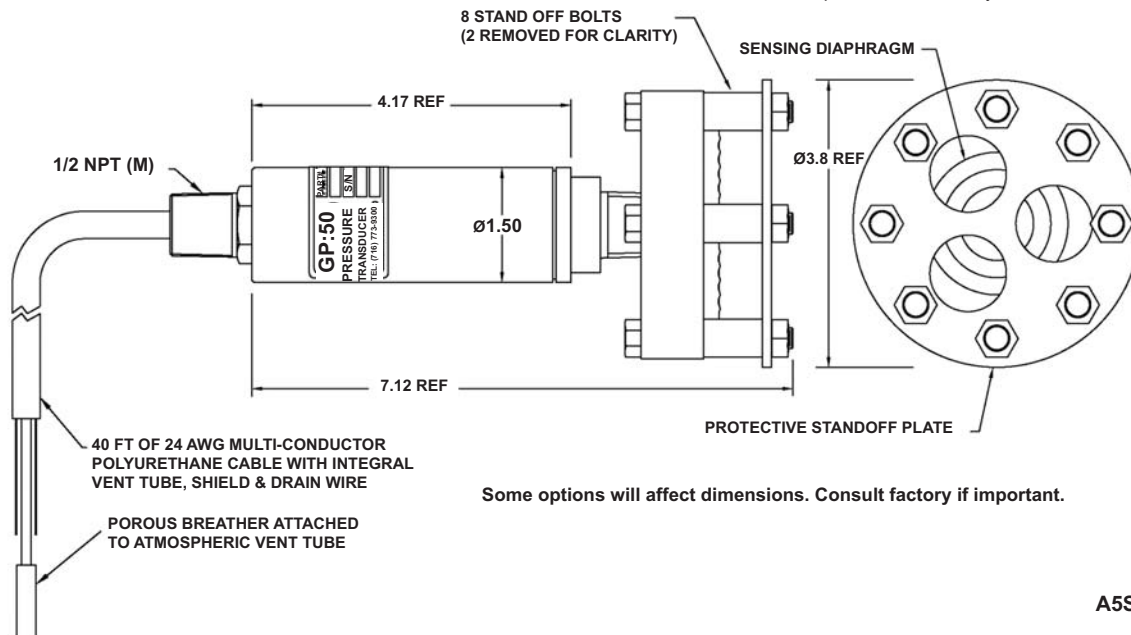
- Pressure: Oil filled diaphragm
- Electrical: 1/2" NPT conduit with molded polyurethane jacket.

### Identification:

- SST name plate welded to body

WIRING:	111	211	311/311Z
RED	+EXC.	+EXC.	+EXC./SIGNAL
GREEN	+SIGNAL	+SIGNAL	NC
WHITE	-SIGNAL	NC	NC
BLACK	-EXC.	-EXC./SIGNAL	-EXC./SIGNAL
BLUE	CALIBRATE	NC OPTION GH	NC OPTION GH
BROWN	CALIBRATE	NC OPTION GH	NC OPTION GH
SHIELD	OPEN	OPEN	OPEN

### Approvals



A5SL-311M351.00 Rev C



## SUBMERSIBLE LIFT STATION / SLUDGE LEVEL TRANSMITTER Model 311-M351

Typical configurations (consult factory for more options)

### MODEL

111	3 mV/V
211	5 Vdc
311	4 - 20 mA
311Z	4 - 20 mA, Intrinsically Safe

### ACCURACY

B	0.5% RSS
C	0.2% RSS

### PRESSURE RANGE (PSI)

PJ 5	PV 50
PN 10	PX 75
PP 15	PZ 100
PR 20	RB 150
PO 25	RD 200
PT 30	SZ Other

### PRESSURE TYPE

2	Gauge
3	Absolute
6	Sealed Gauge
8	Elevated

### OPTIONS

CT	Tefzel jacketed cable.
GA	Standardized output to $\pm 0.5\%$ FSO.
GB	Alternate output, pressure units, or full scale outputs that are non-standard.
GE	Improved temperature compensation to $\pm 0.5\%$ FSO unless otherwise specified.
GG	Alternate Calibration signal.
GH	Internal calibration resistor set to $100 \pm 0.5\%$ FSO unless otherwise specified.
GS	0-10 Vdc FSO, Model 211 (Requires 16-32 Vdc excitation).
JH	Remote cable mounted (in-line) zero & span controls. 3' cable on open side. Length of cable on closed side as required. (500' maximum) Model 311 only.
GZ	Customer special.
G2	Lightning Protection

### NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.

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