



# SUBMERSIBLE LEVEL TRANSMITTER LIFT STATION / SLUDGE LEVEL

## Model 311-M351

### Applications:

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



### 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 (see ordering guide)

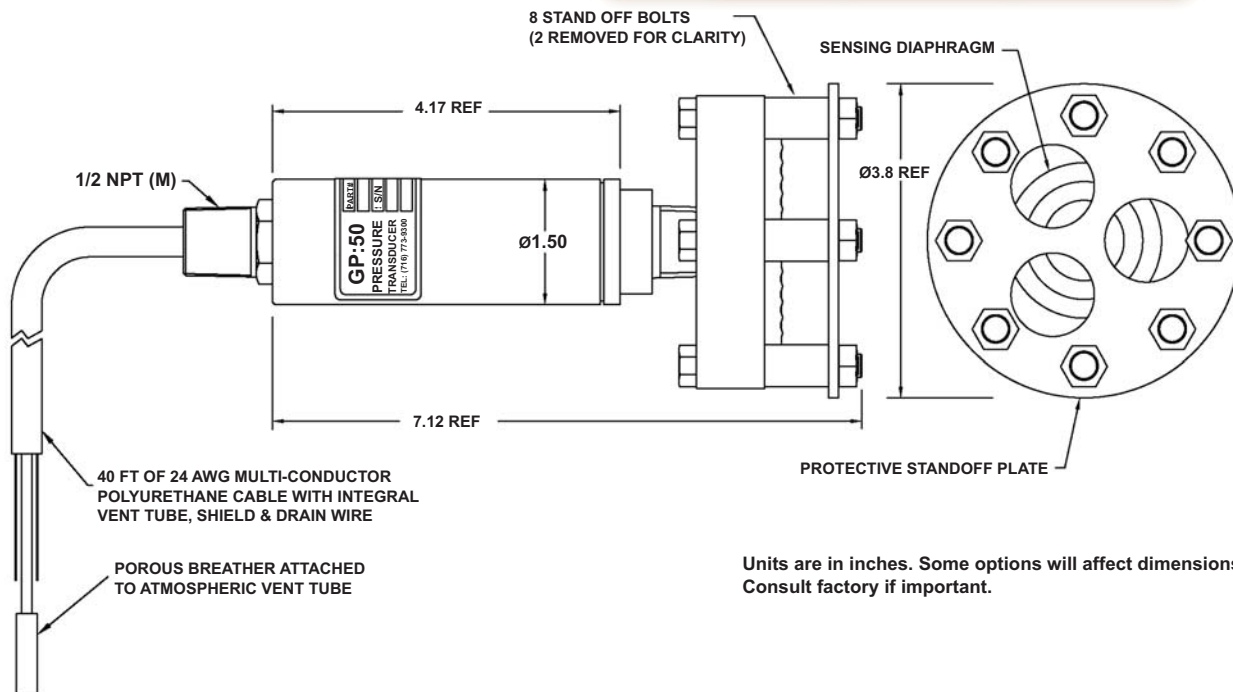
### ACCURACY:

- 0.5% FSO standard, 0.25% available

### WIRING CODE

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

INDUSTRIAL GRADE



GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5SL-311-M351.00 Rev A



# Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

<b>Accuracy</b>		(Static error band includes non-linearity, hysteresis, non-repeatability) ±0.5% FSO (RSS) standard, ±0.25% FSO (RSS) optional	
<b>Temperature Limits</b>			
Compensated		0°F to +140°F	
Operating Model 111, 211, 311		-40°F to +150°F	
<b>Temperature Compensation *</b>		Less than ±2.0% FSO/100°F	
Zero / Span			
<b>Electricals</b>	<b>(Model 111)</b>	<b>(Model 211)</b>	<b>(Model 311)</b>
Input Impedance	5000 ohm, nominal		
Load Impedance		50,000 ohm minimum, for less than 0.1% FSO attenuation	1350 ohms maximum at 36 Vdc and 750 ohm maximum at 24 Vdc
Input Current		8mA, nominal	
Output Current		2.0 mA maximum for less than 0.1% FSO attenuation	
Range Calibration Signal *	Resistance value provided on calibration card for 100% FSO	See option GH	See options GH
Excitation	3.5-15 Vdc	10.5-42 Vdc	9-36 Vdc (Model 311 / 311Z)
Zero Balance	±1% FSO at 70°F		
Insulation Resistance	Greater than 10 megaohms at 50 Vdc and 70°F		
Resolution	Infinite		
<b>Mechanicals</b>			
Proof Pressure	2 times full scale pressure		
Burst Pressure	5 times full scale pressure		
External Pressure	500 psi maximum		
Case Materials	Type 316 stainless steel		
Weight	5.5 lbs.		
Materials in contact with measured fluids	Type 316 stainless steel		
<b>Identification</b>		Stainless steel name plate welded to body	
<b>Connections</b>			
Pressure *	Oil filled diaphragm		
Electrical	1/2" NPT conduit w/ molded polyurethane jacket		

\* See modifications on ordering guide.

## ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	RANGE	PRESSURE TYPE	OPTIONS
●-M351	●	●	●/●/●

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

Example: 311-M351-PP-2-CZ

### MODEL

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

### 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
6	Sealed Gauge
8	Elevated
3	Absolute

### OPTIONS

CT	Tefzel jacketed cable.
GA	Standardized output to ±0.5% FSO.
GB	Alternate output, pressure units, or full scale outputs that are non-standard.
GE	Improved temperature compensation to ±0.5% FSO unless otherwise specified.
GG	Alternate Calibration signal.
GH	Internal calibration resistor set to 100 ±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.

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