



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)

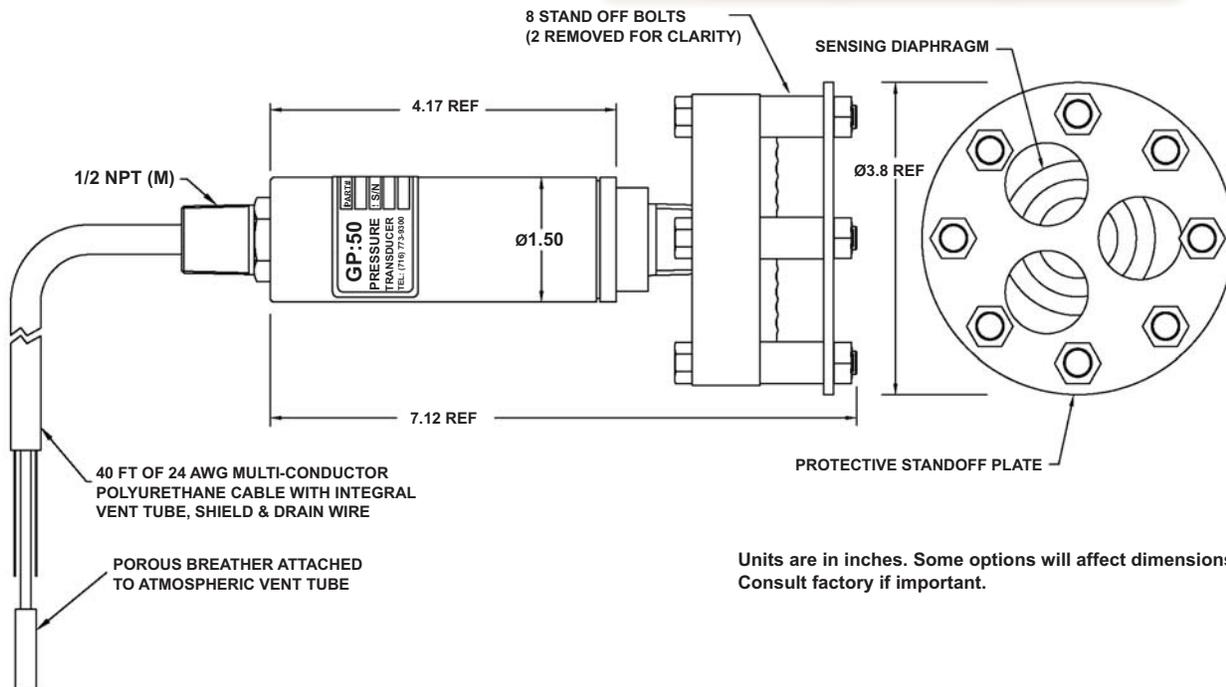
ACCURACY:

- 0.5% FSO standard, 0.25% available

WIRING CODE

	111	211	311 / 311Z
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

INDUSTRIAL GRADE



Units are in inches. Some options will affect dimensions. Consult factory if important.

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-311M351.00 Rev B



Pressure, Level & Temperature Transmitters & Transducers

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

Accuracy		(Static error band includes non-linearity, hysteresis, non-repeatability) ±0.5% FSO (RSS) standard, ±0.25% FSO (RSS) optional	
Temperature Limits			
Compensated		0°F to +140°F	
Operating Model 111, 211, 311		-40°F to +150°F	
Temperature Compensation *		Less than ±2.0% FSO/100°F	
Zero / Span			
Electricals	(Model 111)	(Model 211)	(Model 311)
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		
Mechanicals			
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	
Identification		Stainless steel name plate welded to body	
Connections			
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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