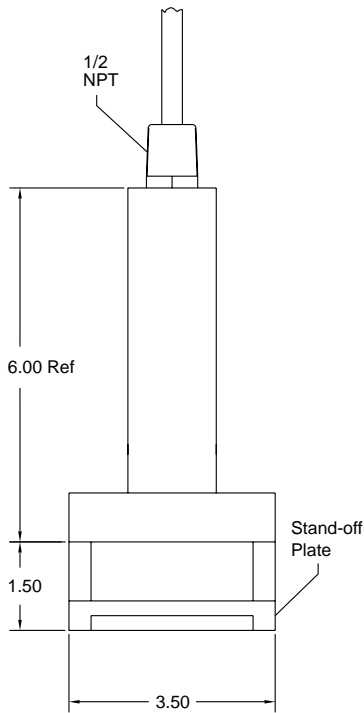


SUBMERSIBLE LEVEL TRANSMITTER LIFT STATION / SLUDGE LEVEL

Model 311

Applications:

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



UNITS : INCHES

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	+ Excit.	+ Excit.	+ Excit./Signal
Green	+ Signal	+ Signal	NC
White	- Signal	NC	NC
Black	- Excit.	- Excit./Signal	- Excit./Signal
Blue	Calibrate	NC Option GH	NC Option GH
Brown	Calibrate	NC Option GH	NC Option GH
Shield	Open	Open	Open

GENERAL PURPOSE

SPECIFICATIONS

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

Accuracy	(Static error band includes non-linearity, hysteresis, non-repeatability) ±0.5% FSO (RSS) standard, ±0.25% FSO (RSS) optional		
Temperature Limits	0°F to +140°F		
Compensated	-40°F to +150°F		
Operating Model 111, 211, 311			
Temperature Compensation*	Less than ±2.0% FSO/100°F		
Zero / Span			
Electricals			
Input Impedance,	Model 111	5000 ohm, nominal	
Load Impedance,	Model 211	50,000 ohm minimum, for less than 0.1% FSO attenuation	
Input Current,	Model 211	8mA, nominal.	
Output Current	Model 211	2.0 mA maximum for less than 0.1% FSO attenuation	
Load Impedance,	Model 311	1350 ohms maximum at 36 Vdc and 750 ohm maximum at 24 Vdc	
Excitation			
Model 111		3.5-15 Vdc	
Model 211		10.5-42 Vdc	
Model 311 / 311Z		9-36 Vdc	
Zero Balance		±1% FSO at 70°F	
Range Calibration Signal*			
Model 111		Resistance value provided on calibration card for 100% FSO	
Model 211, 311		See option GH	
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	
Cable		1/2" NPT conduit w/ molded polyurethane jacket	

* See modifications on ordering guide.

ORDERING GUIDE

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

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

Use the following codes to identify desired item.

MODEL	RANGE	PRESSURE TYPE	OPTIONS
311	— • —	•	— • / • / •

Example: 311-M351-PP-2-CZ

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 other wise 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.

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