

SUBMERSIBLE/LEVEL PRESSURE TRANSDUCER/TRANSMITTER

Models 113, 213, 313

Standard



with Option
LJ Sludge
Nose

FEATURES:

- All-welded, stainless steel construction.
- Rugged, all encapsulated electronics.
- No fill fluid.
- Leakproof. No O-ring construction.
- Many options to solve your problems

PRESSURE RANGES:

- From 0-15 to 0-500 psi
(See ordering guide.)

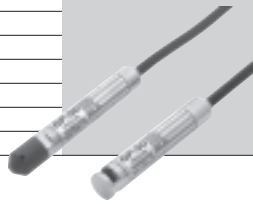
ACCURACY:

- From 0.2% FSO to 1.0% FSO
(See specifications & ordering guide.)

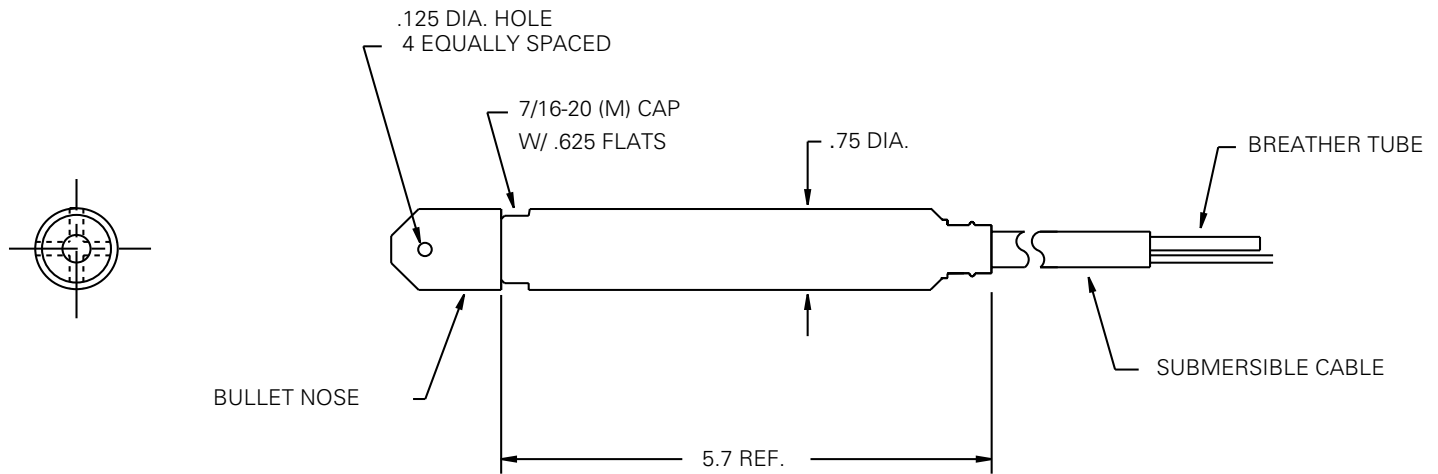
MODEL	OUTPUT @ 70° F	EXCITATION
113	3 mV/V \pm 2% FSO*	3.5-15 Vdc
213	5.0 Vdc \pm 2% FSO	10.5-42 Vdc
313	4-20 mA \pm 2% FSO	9-36 Vdc

* Amplified Output

OUTLINE



Some options will affect dimensions.
 Consult factory if important.
 Note: Altering option codes will alter the unit length.



WIRING CODE

WIRING CODE

	113	213	313
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

** - Signal and - Excitation are common to each other.

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)
Series A	±1.0% FSO (RSS)
Series B	±0.5% FSO (RSS)
Series C	±0.2% FSO (RSS)
Materials in contact with Measured fluids*	Type 316 & inconnel or 316 sensor stainless steel
Temperature Limits*	
Compensated	0°F to +140°F
Operating Model 113, 213, 313	-40°F to +150°F
Temperature Compensation*	
Zero	Less than ±2.0% FSO/100°F
Span	Less than ±2.0% FSO/100°F
Electricals	
Input Impedance, Model 113	5000 ohm, nominal
Load Impedance, Model 213	50,000 ohm minimum, for less than 0.1% FSO attenuation
Input Current, Model 213	8mA, nominal.
Output Current, Model 213	2.0 mA maximum for less than 0.1% FSO attenuation
Load Impedance, Model 313	1350 ohms maximum at 36 Vdc and 750 ohm maximum at 24 Vd
Zero Balance	
Model 113	0.0mv/v ±2% FSO at 70°F
Model 213	0.0 Vdc ±2% FSO at 70°F
Model 313	4.0 mA ±2% FSO at 70°F
Range Calibration Signal*	
Model 113	Resistance value provided on calibration card for 100% FSO.
Model 213,313	NC. See option GH
Insulation Resistance	Greater than 10 megaohms at 50 Vdc and 70°F
Resolution	Infinite
Mechanicals	
Proof Pressure	1.5 times full scale pressure
Burst Pressure	5 times full scale pressure
External Pressure	500 psi maximum
Case Materials	Type 316 stainless steel
Weight	2.5 oz nominal
Identification	Stainless steel name plate welded to body
Connections	
Pressure*	PVC bullet nose
Electrical*	
Cable	Molded polyurethane jacket, 6 conductor with breather tube, 8' long

* See modifications on ordering guide.

SPECIFICATIONS

ORDERING GUIDE

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

Use The Following Codes To Identify Desired Item.

MODEL	SERIES	RANGE	OPTIONS	CABLE LENGTH
•	— • —	•	•/•/•	•

Example
313-B-PZ-LJ

MODEL

113 3 mV/V
213 5 Vdc
313 4-20 mA

SERIES

A 1.0% FSO
B 0.5% FSO
C 0.2% FSO

PRESSURE RANGE

	psi		bar
PP	15	RB	150
PR	20	RD	200
PO	25	RE	250
PT	30	RF	300
PV	50	RH	500
PX	75	SZ	Other
PZ	100		

OPTIONS

AA - None (standard connector)

ALTERNATE PRESSURE PORT

FH 1/8" NPT (F)
FL 1/8" NPT (M)
LD Tapered inlet
LJ Tapered inlet with standoff plate

GENERAL

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 other wise specified.
GS 0-10 Vdc FSO, Model 213 (Requires 16-32 Vdc excitation)
GY Type 316 stainless steel pressure cavity.
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 313 only.
GZ Customer special.

GP:50 New York Ltd. 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.

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