



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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“TITANIUM” SUBMERSIBLE LEVEL TRANSMITTER

Model 313L-NI



FEATURES:

- Weirs, Wells, Pond Level Reservoirs/Dams
- Ground Water Wells
- Shipboard Level Control
- Rig Ballast Control

PRESSURE RANGES:

- 0-10 In. WC thru 50In. WC
- 0-1 PSIG thru 300 PSIG

ACCURACY:

- $\pm 0.25\%$ Option C
- $\pm 0.10\%$ Option D

WIRING: 313L-NI

RED	+EXC./SIGNAL
GREEN	GROUND
BLACK	-EXC./SIGNAL
SHIELD	SHIELD

Accuracy:

- Option C: $\pm 0.25\%$ FSO RSS
- Option D: $\pm 0.1\%$ FSO RSS

Long Term Stability: $\leq +0.5\%$ FSO / year

Pressure Ranges:

- 0-10 In. WC thru 50 In. WC, 0-1 PSIG thru 300 PSIG

Diameter Housing Options:

- Option NI-1 - 1.0 Diameter, Option NI-2 - 0.75 Diameter

Temperature Limits:

- Compensated: $+30^\circ\text{F}$ to $+85^\circ\text{F}$
- Operating: -10°F to $+175^\circ\text{F}$

Temperature Compensation:

- Zero & Span (Standard): Less than $\pm 2.0\%$ FSO/100°F at FSPR & or URL

Electricals:

- Excitation Voltage (Vdc): 10-35
- Output at 70° F (FSO): 4-20 mA $\pm 2\%$.
- Zero Balance: 4mA $\pm 2\%$ FSO at 70° F
- Span: 16mA $\pm 2\%$ FSO at 70° F
- Load Impedance: 1400 ohm maximum at 40 Vdc excitation
- Circuit Protection: Short Circuit - Indefinite, Reversed Wired - Indefinite
- Resolution: Infinite

Mechanicals:

- Proof Pressure: 2X FSPR (or URL)
- Burst Pressure: Full scale ranges up to 20 PSI = 10X, above 20 to 150 PSI = 4X, above 150 PSI = 2X
- External Pressure: 500 psi maximum
- Cycle Life: 1 million pressure cycles
- Length: 6.75 In. (adding options will vary the length)
- Weight: NI-1 = 7.6 oz. (excluding cable), NI-2 = 6.5 oz. (excluding cable)

Identification: Etched onto housing

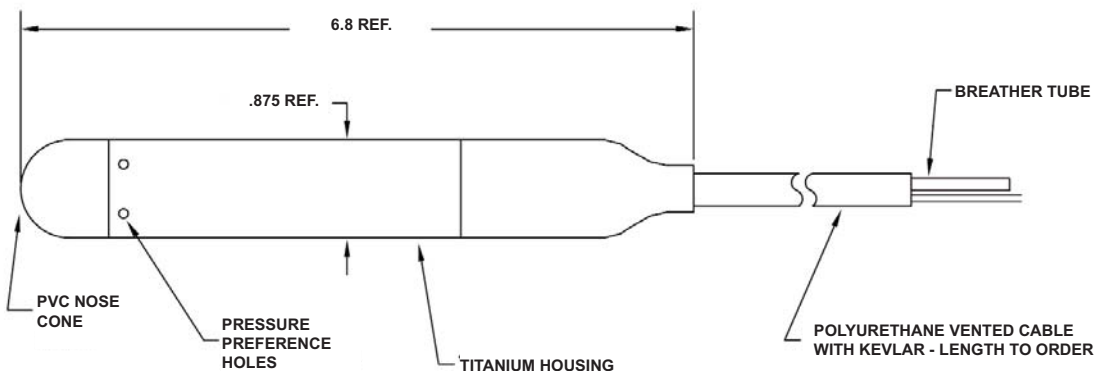
Connections:

- Process Connection: PVC bullet nose
- Electrical Connection: Polyurethane or Tefzel Reinforced Cable with integral vent tube (8 Ft. standard - other lengths available upon request)

Wetted Material:

- Titanium/Ceramic and Viton (excludes cable)

Some options will affect dimensions. Consult factory if important.



A5SL-313L-NI.00 Rev A

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.



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Typical configurations (consult factory for more options)

MODEL

313L-NI 4-20mA

ACCURACY

C ±0.25% FSO (RSS)

D ±0.1% FSO (RSS)

PRESSURE RANGE

(PSI) (IN WC)

PC	1	WX	10
PJ	5	XB	20
PN	10	XD	30
PP	15	XF	50
PT	30		
PV	50		
PZ	100		
RB	150		
RD	200		
RF	300		

PRESSURE TYPES

2 Gauge/direct/<300 PSI (vented)

OPTIONS

CABLE

AA 8' Vented submersible cable (direct gauge ref. units) <300 PSI

CT Tefzel jacketed cable

CZ Alternate cable length (specify)

GENERAL

NI-1 Diameter 1.0" - Titanium Housing

NI-2 Diameter 0.75" - Titanium Housing

NOTE:

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

Modifications may alter specs, consult factory for more information.