



## Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

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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:

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

#### 313L-NI

#### 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:  $-10^{\circ}\text{F}$  to  $+175^{\circ}\text{F}$

#### Temperature Compensation:

- Zero & Span (Standard): Less than  $\pm 2.0\%$  FSO/ $100^{\circ}\text{F}$  at FSPR & or URL

#### Electricals:

- Excitation Voltage (Vdc): 10-35
- Output at  $70^{\circ}\text{F}$  (FSO): 4-20 mA  $\pm 2\%$ .
- Zero Balance: 4mA  $\pm 2\%$  FSO at  $70^{\circ}\text{F}$
- Span: 16mA  $\pm 2\%$  FSO at  $70^{\circ}\text{F}$
- 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

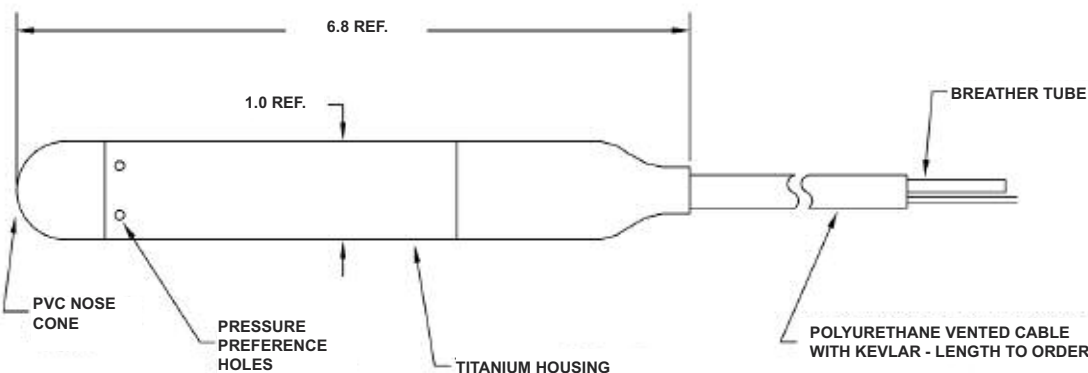
#### Connections:

- 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



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# **“TITANIUM” SUBMERSIBLE LEVEL TRANSMITTER**

## **Model 313L-NI**

Typical configurations (consult factory for more options)

### MODEL

313L-NI 4-20mA

### ACCURACY

C  $\pm 0.25\%$  FSO (RSS)

D  $\pm 0.1\%$  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)

#### NOTE

313 - NI 0.75 DIA Model

#### NOTE:

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

Modifications may alter specs, consult factory for more information.