



# Pressure, Level & Temperature Transmitters & Transducers

U.K. Distributor Interface Force Measurements

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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:  $+30^\circ$  F to  $+85^\circ$  F
- Operating:  $-10^\circ$  F to  $+175^\circ$  F

#### Temperature Compensation:

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

#### Electricals:

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

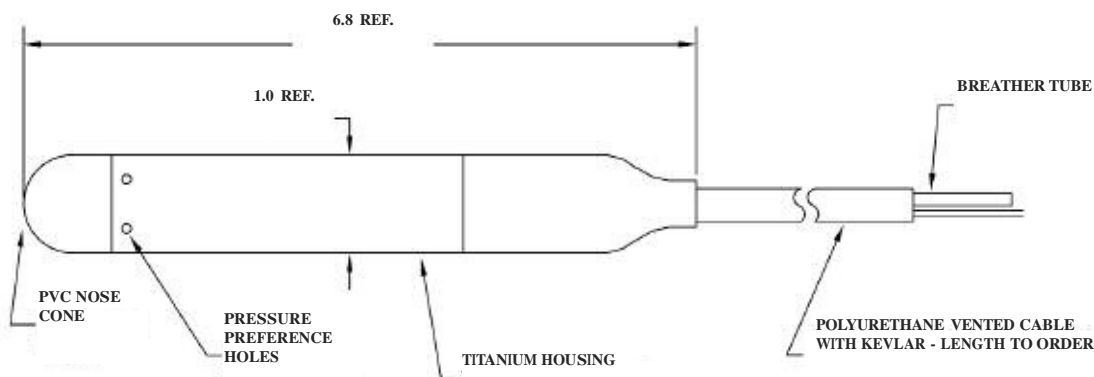
#### Connections:

- 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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### “TITANIUM” SUBMERSIBLE LEVEL TRANSMITTER Model 313L-NI

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)

#### NOTE:

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

Modifications may alter specs, consult factory for more information.

#### 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