



BLUE RIBBON CORP.

SUBMERSIBLE / LEVEL TRANSMITTER "TITANIUM"

Model 'BR313L-NI'

APPLICATIONS:

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

FEATURES:

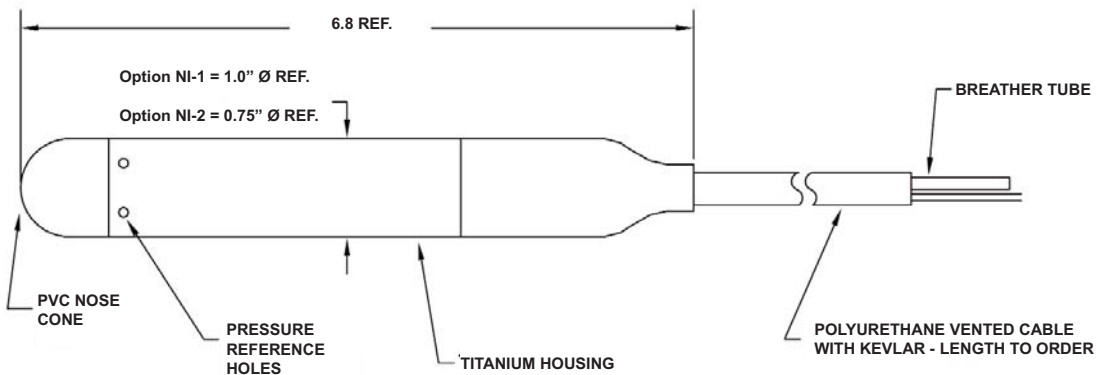
- 3/4" Diameter option
- Rugged, welded stainless steel construction
- Encapsulated electronics
- Polyurethane or Tefzel Reinforced Cable with Integral vent tube
- 4-20 mA standard

PRESSURE RANGES:

- 0-10 In.WC thru 50 In. WC
 - 0-1 PSIG thru 300 PSIG
- (see Ordering Guide)

ACCURACY:

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



WIRING CODE

	313L-NI
RED	+ EXC./SIGNAL
GREEN	GND
BLACK	- EXC./SIGNAL
SHIELD	SHIELD

Blue Ribbon 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.

A5BR-13L-NI.00 Rev A



BLUE RIBBON CORP.

Standard Specifications listed below.

Consult factory for further options, which may change the overall dimensions.

Output (at 70°F)	Model 313L-NI 4-20mA ±2.0% FSO			
Diameter Housing Options	Option NI-1 1.0 Diameter	Option NI-2 0.75 Diameter		
Accuracy	Option C ±0.25% FSO (RSS)	Option D ±0.1% FSO (RSS)		
Pressure Ranges	0-10 In.WC thru 50 In.WC 0-1 PSIG thru 300 PSIG			
Zero Balance	4mA ±2.0% FSO at 70°F			
Span	16mA ±2.0% FSO at 70°F			
Temperature Limits	Compensated +30°F to +85°F	Operating -10°F to +175°F		
Temperature Compensation	Zero / Span (Standard) Less than ±2.0% FSO/100°F at FSPR and/or URL			
Electricals	Excitation 10 – 35 VDC	Load Impedance 1400 ohms maximum at 40 VDC excitation	Circuit Protection Short Circuit – Indefinite Reversed Wire - Indefinite	Resolution Infinite
Standard 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)		
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 max	
Long Term Stability	≤ +0.5% FSO/year			
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			
Wetted Material	Case Titanium/Ceramic and Viton (excludes cable)			

ORDERING GUIDE:

MODEL: 313L-NI 4-20mA

ACCURACY:

C ±0.25% FSO (RSS)

D ±0.1% FSO (RSS)

PRESSURE RANGE: (PSIG)

PC 1 **PV** 50

PJ 5 **PZ** 100

PN 10 **RB** 150

PP 15 **RD** 200

PT 30 **RF** 300

(IN WC)

WX 10

XB 20

XD 30

XF 50

PRESSURE TYPES:

2 Gauge/direct/<300 PSI (vented)

MODEL	ACCURACY	PRESSURE RANGE	PRESSURE TYPES	OPTIONS
●	+	●	+	●/●/●

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

Example: 313L-C-PJ-2-NI-1-AA

(0-5 PSIG at 1" Diameter)

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