



BLUE RIBBON Sales & Services Corp.

SUBMERSIBLE / LEVEL TRANSMITTER "SLIM-LINE"

Models 313S

APPLICATIONS:

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

FEATURES:

- Rugged, Welded Stainless Steel Construction
- Voltage Surge Protection
- Encapsulated Electronics
- Polyurethane or Tefzel Reinforced Cable with Integral Vent Tube
- 4-20 mA Standard
- Diameter: 0.685

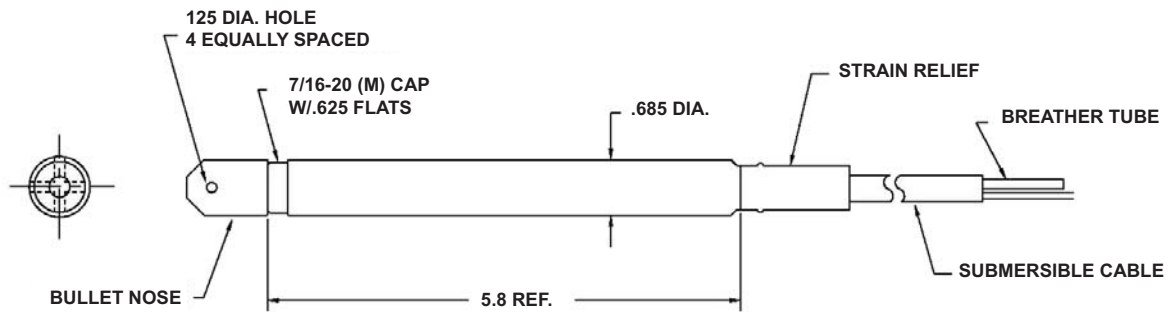


PRESSURE RANGES:

- 30 PSI to 500 PSI
(see ordering guide.)

ACCURACY:

- From $\pm 0.5\%$ (0.10% Optional)
(see specifications & ordering guide.)



WIRING CODE

	313S WIRING CODE
RED	+ EXC./SIGNAL
GREEN	NC
WHITE	NC
BLACK	- EXC./SIGNAL
BLUE	NC OPTION GH
BROWN	NC OPTION GH
SHIELD	OPEN

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-13S.00

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Standard Specifications listed below.

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

Output (at 70°F)	Model 313S 4-20mA ±2.0% FSO			
Accuracy	Option B ±0.5% FSO (RSS)	Option C ±0.2% FSO (RSS)	Option D ±0.1% FSO (RSS)	
Pressure Ranges	0-15 PSI to 0-100 PSI			
Zero Balance	4mA ±2.0% FSO at 70°F			
Span	16mA ±2.0% FSO at 70°F			
Temperature Limits	Compensated 0°F to +140°F	Operating -40°F to +150°F	Storage -40°F to +150°F	
Temperature Compensation	Zero / Span (Standard) Less than ±2.0% FSO/100°F at FSPR and/or URL			
Electricals	Excitation 12 – 40 VDC	Load Impedance 1400 ohms maximum at 40 VDC excitation	Circuit Protection Short Circuit – Indefinite Reversed Wire - Indefinite	Resolution Infinite
Reversed Wire - Indefinite	Voltage Surge Protection (Standard)			
Insulation Resistance	> 10 megohms at 50 VDC and 70°F			
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 4X FSPR (or URL)	External Pressure 500 PSI maximum	
Pressure Response	≤ 5 ms to 90%			
Long Term Stability	≤ +0.5% FSO/year			
Position Effect	± 0.01% FSO for a 90° change in orientation			
Calibration Orientation	Horizontal unless specified			
Cycle Life	1 million pressure cycles			
Fluid Fill	200 CS Dow Corning 200 (Silicon Oil)			
Length	6.75 In. (adding options will vary the length)			
Diameter	1.0 In.			
Weight	2.5 oz. Nominal, adding options may increase weight			
Wetted Material	Case 316 Stainless Steel			

ORDERING GUIDE:

Example 313S-B-PZ-LJ

MODEL	ACCURACY	PRESSURE RANGE	PRESSURE REFERENCE	OPTIONS
•	•	•	•	•/•/•

MODEL

313S 4-20mA

ACCURACY

B ±0.5% FSO (RSS)
C ±0.2% FSO (RSS)
D ±0.1% FSO (RSS)

PRESSURE RANGE (PSI)

PT 30 **RD** 200
PV 50 **RE** 250
PX 75 **RF** 300
PZ 100 **RH** 500
RB 150 **SZ** Other

CONNECTOR

AA 8' Vented submersible cable (direct gauge ref. units) <300 PSI
AA 8' Non-vented submersible cable ≥300 PSI
CT Tefzel jacketed cable
CZ Alternate cable length (specify)

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 ±0.5% FSO.
GB Alternate output, pressure units, or full scale outputs that are non-standard.
GE Improved temperature compensation to ±0.5% FSO unless otherwise specified.
GG Alternate calibration signal.
GH Internal calibration resistor set to 100 ±0.5% FSO unless otherwise specified.
JH Remote cable mounted (in-line) zero & span controls. 3' cable on open side. Length of cable on closed side as required. (500' maximum)
GZ Customer special

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