

SUBMERSIBLE/LEVEL PRESSURE TRANSDUCER/TRANSMITTER

Models 313L



FEATURES:

- All-welded, stainless steel construction
- Rugged, all encapsulated electronics.
- Leakproof
- Many options to solve your problems

PRESSURE RANGES:

- From 0-3 through 0-15 psig
(See ordering guide.)

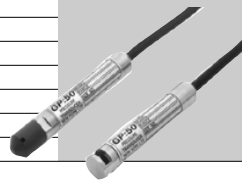
ACCURACY:

- From $\pm 0.1\%$ FSO (RSS) to $\pm 0.5\%$ FSO (RSS)
(See specifications & ordering guide.)

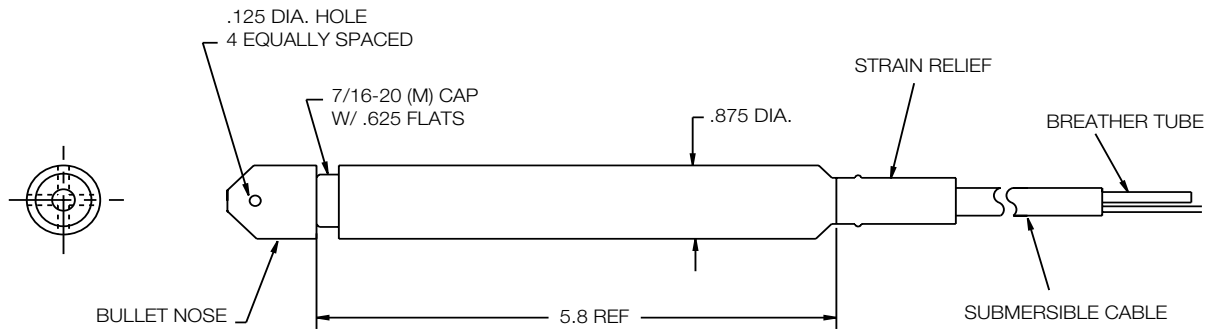
MODEL	OUTPUT @ 70°F	EXCITATION
313L	4-20 mA $\pm 2\%$ FSO*	12 - 40 Vdc

* Amplified Output

OUTLINE



Some options will affect dimensions.
 Consult factory if important.
 Note: Altering option codes will alter the unit length.



WIRING CODE

313L	
Red	+ Excit./Signal
Green	NC
White	NC
Black	- Excit./Signal
Blue	NC Option GH
Brown	NC Option GH

SPECIFICATIONS

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

Accuracy	(Static error band includes non-linearity, hysteresis, non-repeatability)
Series B	±0.5% FSO (RSS)
Series C	±0.2% FSO (RSS)
Series D	±0.1% FSO (RSS)
Temperature Limits*	
Compensated	0 - 70°C (32 - 158°F)
Operating	-40 - 82°C (-40 - 180°F)
Storage	-40 - 82°C (-40 - 180°F)
Temperature Compensation*	
Zero	Less than ±2% FSO/100°F at full scale pressure range and/or upper range limit
Span	Less than ±2% FSO/100°F at full scale pressure range and/or upper range limit
Electricals	
Excitation	12 - 40 Vdc
Zero Balance	4.0mA ±2% FSO at 70°F
Span	16.0mA ±2% FSO at 70°F
Load Impedance	1400 ohm maximum at 40 Vdc excitation
Resolution	Infinite
Circuit Protection	Short Circuit - Indefinite Reverse Wired - Indefinite
Electrical Connection	2 Wires 24 AWG 8' Polyurethane jacket vented cable Red = + Excitation / Signal Black = - Excitation / Signal
Insulation Resistance	Greater than 10 M ohm at 50 Vdc and 70°F
Mechanicals	
Proof Pressure	2 times rated full scale pressure
Burst Pressure	4 times rated full scale pressure
External Pressure	500 psi maximum
Case Materials	Type 316 stainless steel
Pressure Connection	PVC bullet nose
Electrical Cable	Molded Polyurethane jacket. 6 conductor with breather tube. 8' long
Pressure Response	≤ 5 ms to 90%
Long Term Stability	≤ + 0.5% FSO / year
Position Effect	≤ + 0.3% 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	5.5 inches
Diameter	0.875 inches
Mounting	Suspended by vented cable
Identification	Etched onto housing

* See modifications on ordering guide.

ORDERING GUIDE

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

Use the following codes to identify desired item.

MODEL	SERIES	RANGE	OPTIONS	CABLE LENGTH
•	— • —	•	• / • / •	•

Example 313L-B-PZ-LJ-CZ

MODEL

313L 4-20mA

SERIES

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

PRESSURE RANGE

psi

PG 3
 PJ 5
 PL 7.5
 PN 10
 PP 15

OPTIONS

AA None (standard connector)

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
 GA Standardized output to ±0.5% FSO
 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

GP:50 reserves the right to make product improvements and amendments to the product specification stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.