



SUBMERSIBLE/LEVEL PRESSURE TRANSMITTER

Models 313S

FEATURES:

- All welded, stainless steel construction
- Rugged, all encapsulated electronics
- Leakproof
- Many options available

PRESSURE RANGES:

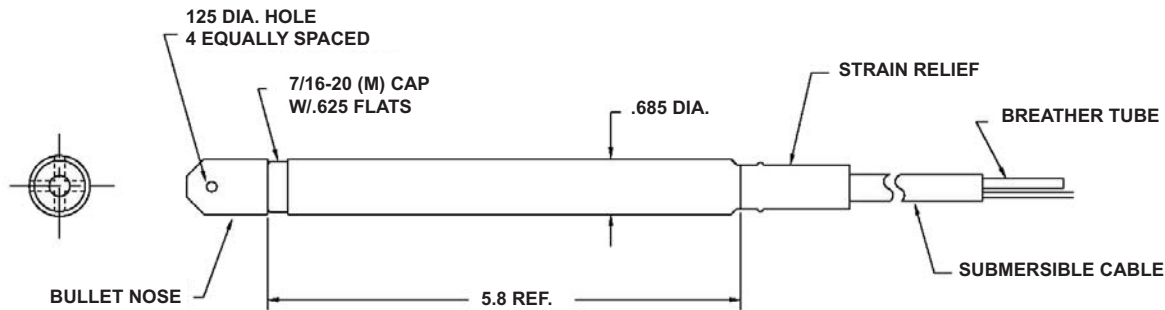
- From 0-15 through 0-100 psig (see ordering guide.)

ACCURACY:

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



INDUSTRIAL GRADE



Some options will affect dimensions. Consult factory if important.

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

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.



Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Accuracy	(Static error band includes non-linearity, hysteresis, non-repeatability) Series B: $\pm 0.5\%$ FSO (RSS) Series C: $\pm 0.2\%$ FSO (RSS) Series D: $\pm 0.1\%$ FSO (RSS)
Temperature Limits*	
Compensated	0°F to +140°F
Operating	-40°F to +150°F
Storage	-40°F to +150°F
Temperature Compensation*	
Zero	Less than $\pm 2.0\%$ FSO/100°F at full scale pressure range and/or upper range limit
Span	Less than $\pm 2.0\%$ FSO/100°F at full scale pressure range and/or upper range limit
Electricals	
Excitation	12 - 40 Vdc
Output at 70°F	4-20 mA $\pm 2\%$ FSO*
Zero Balance	4.0mA $\pm 2\%$ FSO at 70°F
Span	16.0mA $\pm 2\%$ FSO at 70°F
Load Impedance	1400 ohm maximum at 40 Vdc excitation
Circuit Protection	Short Circuit - Indefinite Reversed Wired - Indefinite
Insulation Resistance	Greater than 10 megaohms at 50 Vdc and 70°F
Resolution	Infinite
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 Response	≤ 5 ms to 90%
Long Term Stability	$\leq +0.5\%$ FSO / year
Position Effect	$\pm 0.01\%$ 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	6.1 inches
Diameter	0.685 inches
Connections	
Pressure	PVC bullet nose
Electrical Cable	Molded polyurethane jacket, 6 conductor with breather tube, 24 AWG, 8' long
Identification	Etched onto housing

* See modifications on ordering guide.

ORDERING GUIDE:

MODEL	SERIES	RANGE	OPTIONS
●	+	●	+/●/●

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

Use the following codes to identify desired item.

Example 313S-B-PZ-LJ

MODEL

313S 4-20mA

SERIES

B $\pm 0.5\%$ FSO (RSS)
C $\pm 0.2\%$ FSO (RSS)
D $\pm 0.1\%$ FSO (RSS)

PRESSURE RANGE

(PSI)

PP 15
PR 20
PO 25
PT 30
PV 50
PX 75
PZ 100

OPTIONS

AA None (standard connector)
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

CT Tefzel jacketed cable
GA Standardized output to $\pm 0.5\%$ FSO.
GB Alternate output, pressure units, or full scale outputs that are non-standard.
GE Improved temperature compensation to $\pm 0.5\%$ FSO unless otherwise specified.
GG Alternate calibration signal.
GH Internal calibration resistor set to 100 $\pm 0.5\%$ FSO unless other wise 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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