



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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SUBMERSIBLE LEVEL TRANSMITTER

Model 313L



FEATURES:

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

PRESSURE RANGES:

- From 0-3 thru 0-100 psig

ACCURACY:

- From $\pm 0.1\%$ FSO to $\pm 0.5\%$ FSO (RSS)
(see specifications)

WIRING:

RED
BLACK
SHIELD

313L

+EXC./SIGNAL
-EXC./SIGNAL
OPEN

Accuracy:

Static error band (Includes Hysteresis, Non-linearity, Non-Repeatability)

- Series B: $\pm 0.5\%$ FSO RSS
- Series C: $\pm 0.2\%$ FSO RSS
- Series D: $\pm 0.1\%$ FSO RSS

Long Term Stability: $\leq +0.5\%$ FSO / year

Resolution: Infinite

Temperature Limits:

- Compensated: 0°F to $+140^{\circ}\text{F}$
- Operating: -40°F to $+180^{\circ}\text{F}$
- Storage: -40°F to $+180^{\circ}\text{F}$
- Effect on Zero & Span: Less than $\pm 2.0\%$ FSO/ 100°F at full scale pressure range and/or upper range limit.

Electricals:

- Excitation Voltage: 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 megohms at 50 Vdc and 70°F

Mechanicals:

- Proof Pressure: 2 X rated full scale pressure
- Burst Pressure: 4 X rated full scale pressure
- External Pressure: 500 psi maximum
- Case Material: Type 316 SST
- Pressure Response: $\leq 5\text{ms}$ to 90%
- 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: 6.2 *depends on options
- Diameter: .875

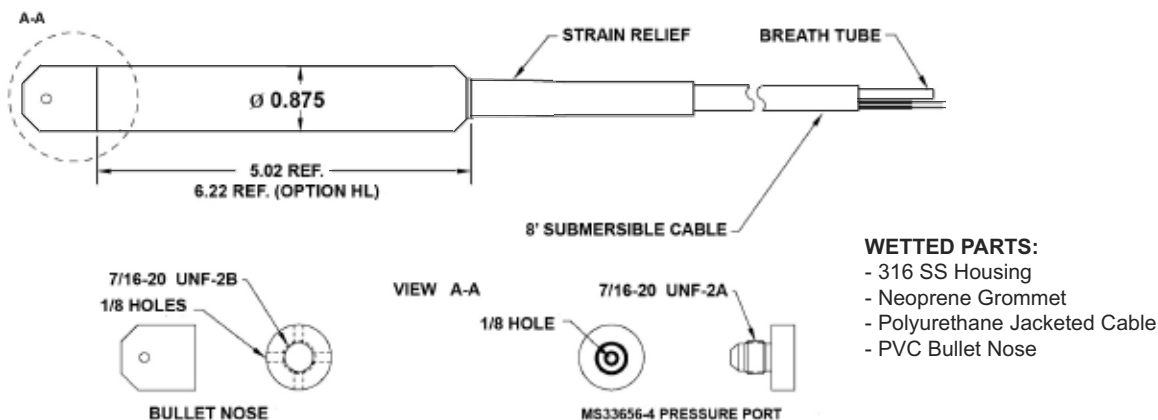
Identification:

- Etched onto housing

Connections:

- Pressure: PVC bullet nose
- Electrical Cable Molded polyurethane jacket, 6 conductor with breather tube, 24 AWG, 8' long.

Some options will affect dimensions. Consult factory if important.



WETTED PARTS:

- 316 SS Housing
- Neoprene Grommet
- Polyurethane Jacketed Cable
- PVC Bullet Nose

A5SL-313L.00 Rev A



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Typical configurations (consult factory for more options)

MODEL

313L 4-20mA

ACCURACY

B $\pm 0.5\%$ FSO (RSS)

C $\pm 0.2\%$ FSO (RSS)

D $\pm 0.1\%$ FSO (RSS)

PRESSURE RANGE

(PSI) (IN WC)

PG 3 XK 100

PJ 5 XM 150

PL 7.5 XO 200

PN 10 XQ 300

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 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

NOTE:

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

Modifications may alter specs, consult factory for more information.