



# SUBMERSIBLE / LEVEL LOW PRESSURE TRANSMITTER

## Models 313L

### FEATURES:

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

### PRESSURE RANGES:

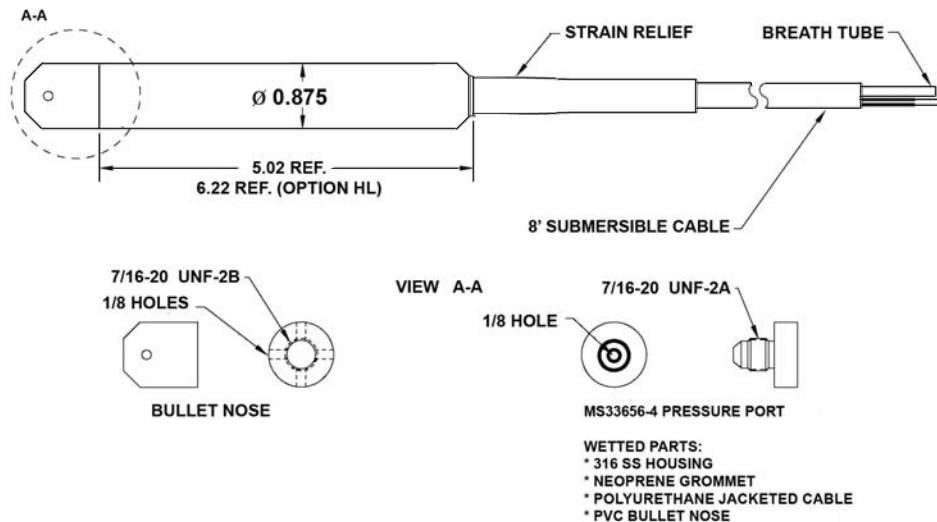
- From 0-3 through 0-100 psig  
 (see ordering guide.)

### 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

	313L
RED	+ EXC./SIGNAL
BLACK	- EXC./SIGNAL
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.

A5SL-313L.00



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

<b>Accuracy</b>	<b>(Static error band includes non-linearity, hysteresis, non-repeatability)</b> Series B: ±0.5% FSO (RSS) Series C: ±0.2% FSO (RSS) Series D: ±0.1% FSO (RSS)	
<b>Temperature Limits *</b>		
Compensated	0°F to +140°F	
Operating	-40°F to +150°F	
Storage	-40°F to +150°F	
<b>Temperature Compensation *</b>		
Zero	Less than ±2.0% FSO/100°F at full scale pressure range and/or upper range limit	
Span	Less than ±2.0% FSO/100°F at full scale pressure range and/or upper range limit	
<b>Electricals</b>		
Excitation	12 - 40 Vdc	
Output at 70°F	4-20 mA ±2% FSO	
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	
Circuit Protection	Short Circuit - Indefinite Reversed Wired - Indefinite	
Insulation Resistance	Greater than 10 megaohms at 50 Vdc and 70°F	
Resolution	Infinite	
<b>Mechanicals</b>		
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	≤ +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	6.2 * depends on options	
Diameter	.875	
<b>Identification</b>	Etched onto housing	
<b>Connections</b>		
Pressure	PVC bullet nose	
Electrical Cable	Molded polyurethane jacket, 6 conductor with breather tube, 24 AWG, 8' long	

\* See modifications on ordering guide.

## ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.  
 Use the following codes to identify desired item.

MODEL	SERIES	RANGE	OPTIONS
●	—	●	— ●/●/●

Example: 313L-B-PZ-LJ

### MODEL

313L 4-20mA

### SERIES

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

### PRESSURE RANGE

(PSI)		(IN WC)
PG 3	PO 25	XK 100
PJ 5	PT 30	XM 150
PL 7.5	PV 50	XO 200
PN 10	PX 75	XQ 300
PP 15	PZ 100	
PR 20		

### 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 ±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 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