

FEATURES

- Low Cost Loop Powered, 4-20 mA_{dc} Output
- Integral Transmitter with Dual Compartment Housing
- Solid State, Microprocessor Based - No Moving Parts
- Complete Digital Calibration - Eliminates Analog Pots
- External Magnet Calibration - No Need to Open Case
- Partial Fill Tank Calibration - 2 Points With Only Partial Fill
- Explosion Proof Enclosure, Intrinsically Safe Probes
- Rugged Probe Designs
- Eliminates Explosion Proof Conduit Seal Requirement

OPTIONS

- Remote Mounting up to 200 Ft. / 61 m
- External Power Supply / Field Indicators
- Variety of Probes Available
- 316L SS Dual Compartment Housing

APPLICATIONS

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> • Finished Goods with Stable Dielectric • Interface Measurement • Slurries • Open Channel flow • Foams | <ul style="list-style-type: none"> • Conductive Products • Non-Conductive Products • Organic • Inorganic • High or Low Level Alarm | <p>Special Applications:</p> <ul style="list-style-type: none"> • High Temperature • Corrosive Environments • High Pressure • Special Probe Materials |
|--|---|--|

SPECIFICATIONS

Electronic Transmitter

Housing	Explosion Proof Powder Coated Cast Aluminum, Dual Compartment
Accuracy	±0.25% full scale, 5 to 150°F / -15 to 65°C
Linearity	±0.25% full scale
Minimum Dielectric	1.7
Sensitivity	50 to 10,000 pF
Static Protection	Maximum Surge Current: 100 Amps
Remote Mounting	Up to 200 ft. / 61 m
Input Power	10 to 36 VDC (17 to 30 VDC with FMX Option)
Output Signal	4 – 20 mA _{dc}
Max Load Resistance	$R_{max} = (V_S - 10) / 0.021$, $\{R_{max} = (V_S - 17) / 0.021$ with FMX Option} where V_S = Input Power

Ambient Temp -40 to 170°F / -40 to 77°C
 Reference SLG-0005-1 Table 1B for pressure / temperature ratings of probes

Approvals



Factory Mutual System (FM) & Canadian Standards Association (CSA)
 XP CLI, DIV1 & 2, ABCD, CLII, III, EFG, I/O, AExdIIC T6@ Ta = 77°C
 I.S CLI, DIV1 & 2, ABCD, CLII, DIV1, EFG, CLII, DIV2, FG, CLIII
 I/O, AExialIIC T4@ Ta = 77°C
 FM NEMA 4X CSA Type 4X

GOST Russia: 0ExialICT4, 1Exd[ja]IICT6



ORDERING INFORMATION:

A38 / a / b / c / d / e / f / g:

/a Transmitter Configuration

- L** Local Transmitter -40 to 250°F / -40 to 121°C **Standard**
- H6** Above 250°F / 121°C; Electronics enclosure is extended 6" above process connection. Refer to RF Capacitance Probe Selection Guide (SLG-0005-1) for maximum process temperatures.
- R1xxx** Remote Mounted Electronics in Standard Dual Compartment Transmitter Housing & Local Sensing Probe in Explosion Proof Single Compartment Enclosure; RG62 with PVC insulation cable rated to 185° F / 85° C specify length "xxx" in feet (max lengths listed in Table 1)
- R2xxx** Remote Mounted Electronics in Standard Dual Compartment Transmitter Housing & Local Sensing Probe in Explosion Proof Single Compartment Enclosure; RG62 with Teflon insulation cable rated to 450°F / 232° C specify length "xxx" in feet (max lengths listed in Table 1)

Pf Range	Max. Cable Length
0-75 pf	25 ft.
76-300 pf	50 ft.
301-1200 pf	100 ft.
1201-4800 pf	200 ft.

/b Transmitter Housing

- A** Aluminum Housing **Standard**
- S** 316L Stainless Steel Housing

/c Probe Type

- xxxxxy** Probe configuration from RF Capacitance Probe Selection Guide (SLG-0005-1)
- xxxxxx** Probe Type Code (1 to 5 digits from SLG-0005-1 Table 1A)
- y** Seal Code: **V** = Viton O-Ring Seal **Standard**; **K** = Kalrez O-Ring Seal

/d Probe Length

- xxx** Insertion length from bottom of process connection in inches (**standard**) or centimeters (cm)

/e Process Connection

Note: a dual probe assembly is recommended to compensate for non-linear tank (spherical, bullet, cone shaped bins) or non-metallic tank configurations

- P1** Single Probe Process Connection (SLG-0005-1 Table 1A) **Standard**
- P2** Dual Probe Process Connection (SLG-0005-1 Table 1A)
- FL** Flange Shipped Loose; Specify from Flange Chart (SLG-0001-1)
- FLD** Dual Sensor integrally mounted on flange (4" minimum) with primary probe
- WP** Flange Welded; Specify from Flange Chart (SLG-0001-1)
- WPD** Dual Sensor integrally mounted on flange (4" minimum) with primary probe
- Tnn** Tri-Clamp; Specify "nn" as follows: 10 = 1", 15 = 1.5", 20 = 2.0", 25 = 2.5" up to 6"

/f Options

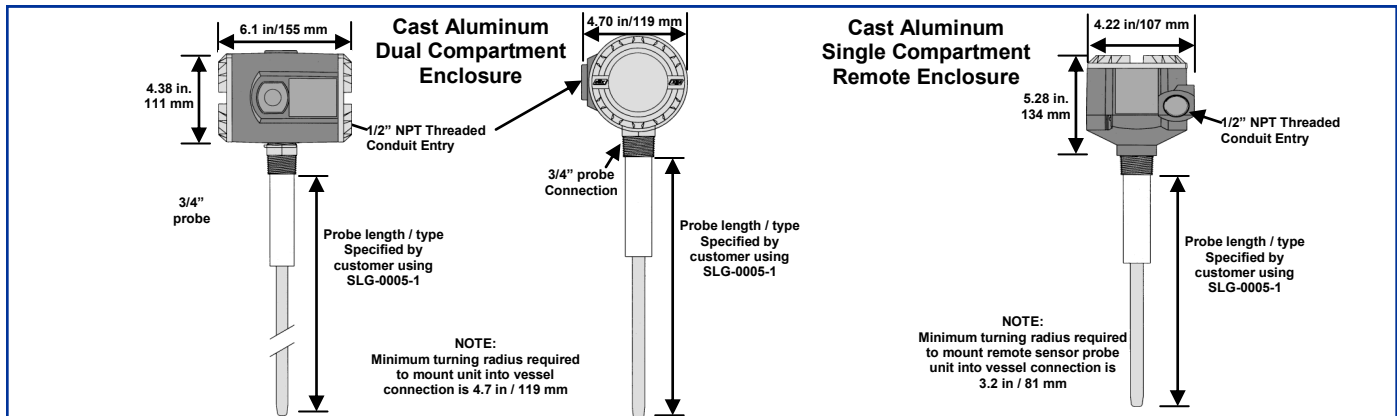
- X** None **Standard**
- ETI** Extended Teflon Insulator (specify extension length in inches or mm)
- EDI** Extended Delrin Insulator

/g Approvals

- X** No Approvals
- FMI** Factory Mutual (FM) & Canadian Standards Association (CSA) Intrinsically Safe
- FMX** Factory Mutual (FM) Flame Proof **Standard**
- GRI** GOST Russia Intrinsically Safe
- GRX** GOST Russia Flame Proof



Dimensional Information



AVAILABLE ACCESSORIES

M20 ISO FITTING

M20 Female Electrical Connection

TN

3/4" NPT Teflon Mounting Nipple for Type R Probe only

Contact the Factory for Applications not covered above.