EchoWave[®] LG10/11

Guided Wave Radar Level Transmitter



Application

Offered with three probe types, the general purpose guided wave transmitter provides continuous level measurement up to 18' (5.5m) with a 4-20 mA signal output, and is configured via our free WebCal[™] software. This liquid level sensor is applied in non-turbulent environments where foam, vapor, vacuum, condensation, high temperature or pressure may be present. Select the rod or cable probe for use with clean, dirty, coating or crystallizing liquids in above grade metal tanks or below grade tanks constructed from any material. Choose the coaxial probe for use with clean, non-coating or non-crystallizing liquids in above or below grade tanks of any material. Standard probe lengths may be user cut in the field. The sensor is intended for bulk storage, day tank, skid or machine, IBC or drum, process tank or waste sump applications.

Features

- Rugged 316L stainless steel probe and process mount
- Simple configuration via WebCal[™] software
- Guided Wave Radar is unaffected by vapor, vacuum, foam, condensation, high temperature or pressure
- 4" (10cm) dead band enables utilization of the entire tank
- Fail-safe diagnostics with selectable signal outputs
- Disturbance scanning that maps the recognition, storage and rejection of false echo signal returns
- Rugged NEMA 4 aluminum enclosure

Success

Sintering is a process of compacting and forming a solid mass of material by extreme heat and / or pressure without melting it to the point of liquefaction. It is used in the manufacturing process of metals, ceramics and other materials. Ovens that have temperatures exceeding 400 degrees require a system to prevent overheating during manufacturing. Here, a LG10 is mounted on an 8' cooling tower sump at a metal manufacturing plant. The guided wave radar measurement is unaffected by the condensation, agitation, foam and the high temperature environment.







CRN



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Dimensions Specifications 42" [86.9 mm] Range: Rod / Coaxial: 9.8' (3.0m) Cable: 18.0' (5.5m) Accuracy: ± 3mm Dead band: Top 4" (10cm) 25 Bottom 2" (5cm) **Repeatability:** <2mm 4.45' (113.0 m Resolution: .75 (19 m <2mm **Configuration:** WebCal[™] PC Software Ø 0.25" 1.25" (31.8 mm) Supply voltage: 10-30 VDC -0.84" (21.3 mm) Max. consumption: <50mA at 24 VDC Signal output: 4-20mA, 3-wire Signal fail-safe: 4mA, 20mA, 21mA, 22mA or Hold Last Value **Dielectric:** >1.8 1/4"-20 Process temp.: F: -40° to 302° 5.31" (135 mm C: -40° to 150° Ambient temp.: F: -40° to 185° C: -40° to 85° 0.88" (22.2 mm) Pressure: -14.5 to 250 psig 1/2"-13 Cable Rod Coaxial (-1 to 17 bar) Enclosure rating: NEMA 4 Configuration Fittings Encl. material: Aluminum **REDUCER BUSHINGS (NPT) WEBCAL** LM51-1S00 Feed through mat.: 316L SS and PEEK 1" x 3/4", 316 Stainless Steel Conduit entrance: (1) 1/2" NPT connector LM51-2S00 Probe material: Rod / Coaxial: 316L SS 2" x 3/4". 316 Stainless Steel Cable: 316 SS Process mount: LM51-1800 3/4" NPT or 3/4" G 1" x 3/4", PVC, Sch 80 **Classification:** General purpose LI99-1001 Certification: CSA / NRTL (pending) EchoWave is configurable via our free Compliance: CE, CRN, RoHS WebCal[™] PC software and Fob USB adapter. The sensors are offered with and without Fobs. Download your free copy of LM51-2S00 LM51-1800 WebCal[™] at www.flowline.com Ordering NOTES 3 - 0 LG1 (1)(4) 1) To select a radar sensor for distributor purchase, please go to www.flowline. RANGE (2) com/LAQ and submit a level application questionnaire for review. You will 0 9.8' (3m) receive a suggested part number and comments based on your requirements. 1 18.0' (5.5m) 2) Available only in the following configurations: PROBE TYPE (3) LG10-00 _ 3 - 0 _ Rod: 0 Rod Probe Coaxial: LG10-1_ 3 - 0 _ 1 **Coaxial Probe** Cable: LG11-20 _ 3 - 0 _ 2 Cable Probe 3) Rod and Cable Probes must be installed in metal or reinforced concrete **PROBE MATERIAL** tanks. Coaxial Probes can be installed in tanks constructed from any material. 316L Stainless Steel 0 4) Probes are shipped in standard lengths (Rod / Coaxial: 3m, Cable: 5.5m. 1 Galvanized Steel (Coaxial Probe Only) To order a shorter probe, indicate the dimension after the part number, i.e. **PROCESS MOUNT-**LG10-0003-01-XX. 0 3/4" NPT 5) The Level sensor is configured via our WebCal software and one LI99-1001 3/4" G Thread 1 Fob USB adapter. The level sensor is offered with and without a Fob. The Fob FOB USB ADAPTER (5) is universal and can be used to configure any WebCal compatible product. 0 No Fob WebCal is a free download from our website, www.flowline.com.

1 With Fob