EchoWave® LG10-11

Guided Wave Liquid Level Transmitter

FLOWLINE™ LEVEL BEST

Application

Offered in 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 with foam, vapor, condensation, temperature or pressure. Select the rod or cable probe for use with clean, dirty, coating or crystallizing liquids in above grade metal or below grade tanks of any material. Select the coaxial probe for use with clean, non-coating or crystallizing liquids in above or below grade tanks of any material. Standard probe lengths may be user cut in the field. Typical applications include small day tank, skid or machine, IBC or drum, process tank, cooling tower and waste sumps.

RoHS Compliant CE CRN C SP US

Features

- Offered in standard or custom probe lengths up to 18' (5.5m)
- Configuration is easy via WebCal software and USB adapter
- Rugged 316L stainless steel probe and process mount
- 4" (10cm) dead band enables utilization of the entire tank
- Disturbance scan maps and rejects false echo signal returns
- Rugged NEMA 4 aluminum enclosure with 316L process mount
- Self diagnostics with five selectable fail-safe signal outputs

Rod
LG10-0

Coaxial
LG10-1

Cable
LG11-2

Success

Sintering is the process of compacting and forming a solid mass of material by extreme heat and pressure without melting it to the point of liquification. Its commonly used in the manufacturing of metals, ceramics and other materials process where process temperatures can exceed 400 degrees. Here, a LG10-0 is installed in a metal manufacturing plant waste sump using a PVC stand pipe to eliminate turbulence. The guided wave sensor is unaffected by the high temperature, condensation and foam.

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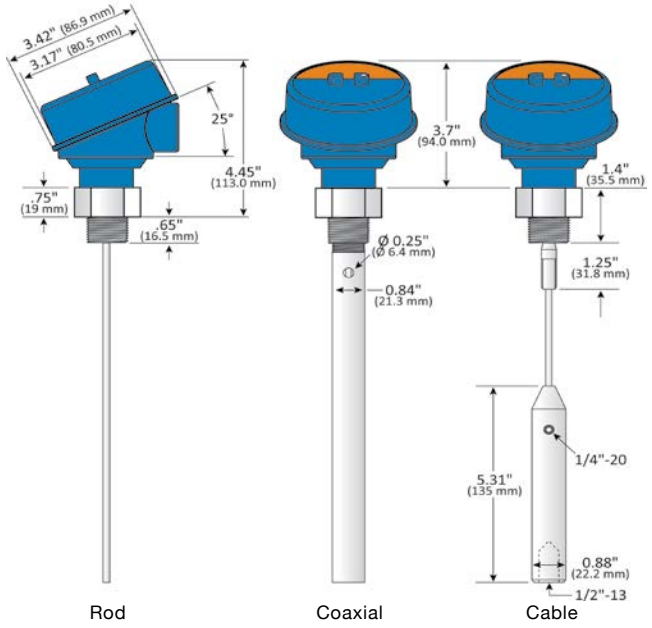
Specifications

Range:	Rod & coaxial: 9.8’ (3m) Cable: 18’ (5.5m)
Accuracy:	± 3mm
Dead band:	Top: 4” (10cm) Bottom: 2” (5cm)
Repeatability:	< 2mm
Resolution:	< 2mm
Configuration:	WebCal® PC Windows® USB® 2.0
Supply voltage:	10-30 VDC
Max. consumption:	< 50mA @ 24 VDC
Signal output:	4-20mA, 3-wire
Signal fail-safe:	4mA, 20mA, 21mA, 22mA or hold last
Dielectric:	> 1.8
Process temp.:	F: -40° to 302° C: -40° to 150°
Ambient temp.:	F: -40° to 185° C: -40° to 85°
Pressure:	-14.5 to 250 PSI (-1 to 17 bar)
Enclosure rating:	NEMA 4
Encl. material:	Aluminum
Feed through mat.:	316L SS & PEEK
Conduit entrance:	(1) 1/2” NPT connector
Probe material:	Rod & coaxial: 316L SS Cable: 316 SS
Process mount:	3/4” NPT (3/4” G)
Classification:	General purpose
Certification:	cCSAus, NRTL
Compliance:	CE, CRN, RoHS

Dimensions



Configuration

LI99-1001

The level sensor is configurable via our free WebCal PC software and Fob USB adapter. The sensors are offered with and without Fobs. Fobs are universal and can be used to configure any WebCal compatible product. WebCal is a free download from our website.

Ordering

LG1 [ ] - [ ] 0 [ ] 3 - 0 [ ] - [ ] [ ] [ ]

RANGE (1)

0	9.8’ (3m)
1	18’ (5.5m)

PROBE TYPE (2) (3)

0	Rod
1	Coaxial
2	Cable

PROCESS MOUNT

0	NPT (US)
1	G (Metric)

FOB USB ADAPTER

0	No Fob
1	With Fob

PROBE LENGTH (4)

XXX	Standard or custom probe length

NOTES

1) The max. range for the rod (LG10) and coaxial (LG10) probe is 3m; and the cable probe (LG11) is 5.5m.
2) Rod and cable probes may be installed in above grade metal and reinforced concrete tanks or below grade tanks of any material. Coaxial probes may be installed in tanks of any material, above or below grade.
3) Probes are available in the following configurations:
   - Rod: LG10-_ 0 _ 3 - 0 _ - XXX
   - Coaxial: LG10-_ _ _ 3 - 0 _ - XXX
   - Cable: LG11-_ 0 _ 3 - 0 _ - XXX
4) Probes are offered in standard or custom lengths. Standard lengths for the rod and coaxial probes are 036”, 072” and 118”; and the cable probe is 216”. Custom lengths may be specified in 1/2” (1.3cm) increments down to 24” (.6m) on the rod and coaxial probes; and to 48” (1.2m) on the cable probe. A cut charge of $100 net will be added to the next highest standard probe length on custom probe length orders. Standard probe lengths may also be user cut in the field which is addressed in the manual.