

“LD” Level Transmitter

Introduction

Hundreds of customers have proven for themselves that Anderson-Negele’s dual-diaphragm technology level transmitters are the clear choice for monitoring liquid inventory levels in virtually any atmospheric storage application. But, what about:

- Level applications where bottom access is not available?
- Rotating filler bowls that make bottom mounting impractical?
- Wide temperature swings that cause other sensors to shift uncontrollably?
- Other top-mount solutions that fail unexpectedly due to coating, lack of conductivity or mechanical failure?

For these tough applications, Anderson-Negele now offers the “LD” series of top-mount level transmitters. The design is based on our proven “SL” platform which provides the industry’s best accuracy, temperature stability, and reliability. The “LD” is simple to specify, install and calibrate. It easily replaces problematic devices such as ball floats, pneumatics, capacitance probes and magneto-strictive sensors. It pays for itself almost immediately by providing more accurate fill levels with less downtime for cleaning and maintenance.

So, if you have an application like one described above and want to see how the “LD” will provide the kind of reliable control you’ve always wanted, give us a call. We’ll work up a proposal the same day and get you a unit within two weeks.

Authorizations



Features

- Top-mount configuration provides for easy installation without special fixturing or welding
- Micro-processor based platform
- No moving parts for highest reliability and cleaning in-place
- Quick Disconnect Receptacles with optional Field Wiring Connectors
- Standard lengths from 15” to 36” adaptable to any existing vessel

LD Level Transmitter



Specifications

PERFORMANCE

Upper Range Limit (URL): 72" water column (w.c.)
 Minimum Span: 30" w.c.
 Over-Range Capacity: 2.5 times the URL (180" w.c.)
 Accuracy: ± 0.75% of URL (± 0.5" w.c.)
 Repeatability: within ±0.3% of URL (± 0.2" w.c.)
 Stability: Within published specification for one (1) year minimum

Compensated Temp. Range: 30°F to 220°F (-1°C to 104°C) (process)
 Compensated Temp. Range: 30°F to 120°F (-1°C to 49°C) (ambient)
 Effect of Process/Ambient Temperature Change: ± 0.40% of URL per 10°F
 Humidity: 0-100% RH, Condensing
 Response Time: 526 mSec

POWER SIGNAL

Output: 4-20mA dc
 Loop Power Required: 12-40 Vdc
 Effect of Voltage Change: ± 0.05% of URL per 30 volts
 Load Impedance: 1400 Ohms at 40 Vdc
 Cable Recommended: 2 conductor, stranded, 18-24 AWG, shielded with ground.
 0.17 - 0.26" Cable Sheath OD for use with field wiring connector.
 Anderson molded cord set recommended for best EMI and water protection.

Receptacle: 5-pin M12 Quick Disconnect Receptacle

MATERIALS/CONSTRUCTION

Housing /Wiring Head: 304 stainless steel
 Wetted Parts: 316L stainless steel
 Surface Finish: Ra=25 microinches or better (wetted parts)
 Housing Rating: NEMA 4X, IP-65

AGENCY APPROVALS

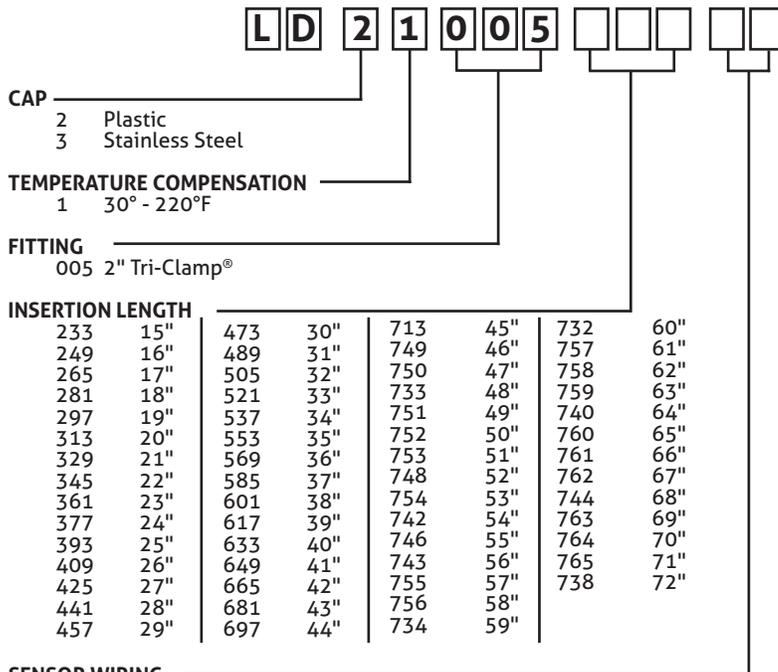
Electromagnetic Compatibility (EMC): CE Compliant
 Standards: 3-A compliant, Third party verified

Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC

Warranty:

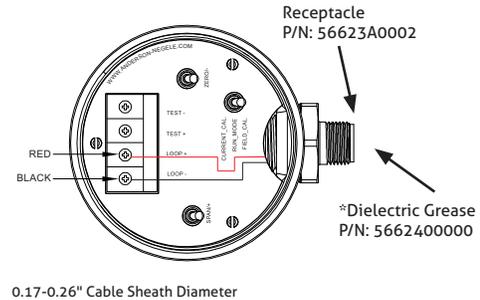
All units are covered by a two (2) year warranty against defects in material and workmanship when installed and maintained according to the instruction manual provided

Order Information



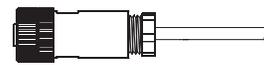
SENSOR WIRING

- 01 Quick Disconnect Receptacle (QDR) & Field Wireable Connector (FWC) w/No Cable (std.)
- R0 QDR & 90° FWC w/No Cable
- 00 QDR w/No Cable, no FWC
- 05 QDR w/25 ft Standard Molded Cordset
- 10 QDR w/50 ft Standard Molded Cordset
- 20 QDR w/100 ft Standard Molded Cordset
- 99 1/2" NPT No QDR, no FWC and no Cable (No sensor warranty for water damage)



Field Wireable Connector
 P/N: 42119B0000 (without cable)

90° Field Wireable Connector
 P/N: 42119A0000 (without cable)

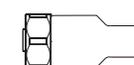


Molded Cordset



Loop+(red) wire Pin 1
 Loop-(black) wire Pin 2
 Shield (clear or bare) wire - not connected to nut

Shield Cordset



Loop+(red) wire Pin 1
 Loop-(black) wire Pin 2
 Shield (bare) wire - connected to nut