

# “LA” Level Transmitter

## Introduction

Hundreds of customers have proven for themselves that the 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?
- Sterile applications where a seal in the product contact zone is not preferable?
- Ball-float sensors that can’t measure to the bottom of the vessel?
- Other top-mount solutions that fail unexpectedly due to probe coating, lack of conductivity, and mechanical failure?

For these tough applications, Anderson-Negele now offers the “LA” series of top-mount level transmitters. The design is based on our proven “SX” platform which provides the industry’s best accuracy, temperature stability, and reliability. The “LA” 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 “LA” will provide the kind of reliable control you’ve always wanted, give us a call.

## 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 72” adaptable to any existing vessel



**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./6.5 psig)  
 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: -1°C to 104°C (30°F to 220°F) (process)  
 Compensated Temp. Range: -1°C to 49°C (30°F to 120°F) (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=15 microinches or better (wetted parts)  
 Housing Rating: NEMA 4X, IP-65  
 Agency Approvals

**ELECTROMAGNETIC COMPATIBILITY (EMC):**

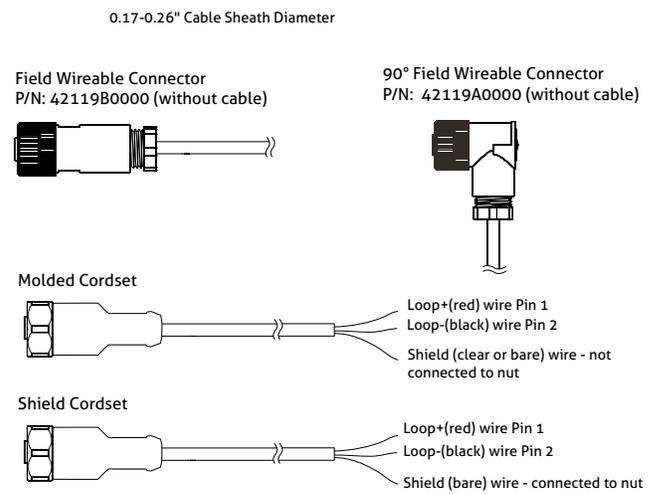
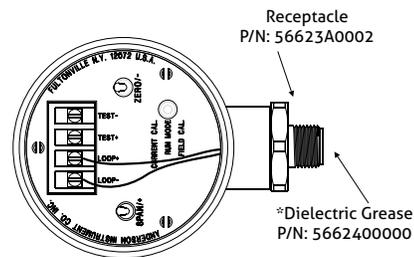
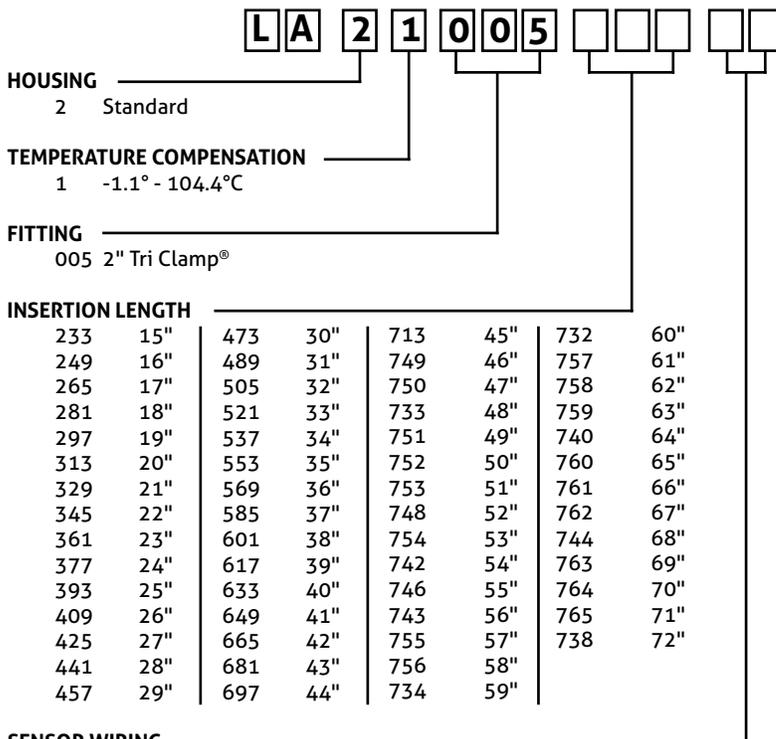
CE Compliant  
 Sanitary Standards: 3-A compliant; Third party verified in accordance with standard 74-04  
 Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC

Hazardous Locations: Intrinsically safe for use in Class1, Div. 1 Groups A-D

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

Certifications: Certification of calibration 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 No QDR, no FWC and no Cable (No sensor warranty for water damage)

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