PRESSURE
TEMPERATURE
LEVEL
INSTRUMENTATION
FLOW
ANALYTICAL

# "LA" Level Transmitter

## Top-mount, "dipstick" style transmitter for level control applications!

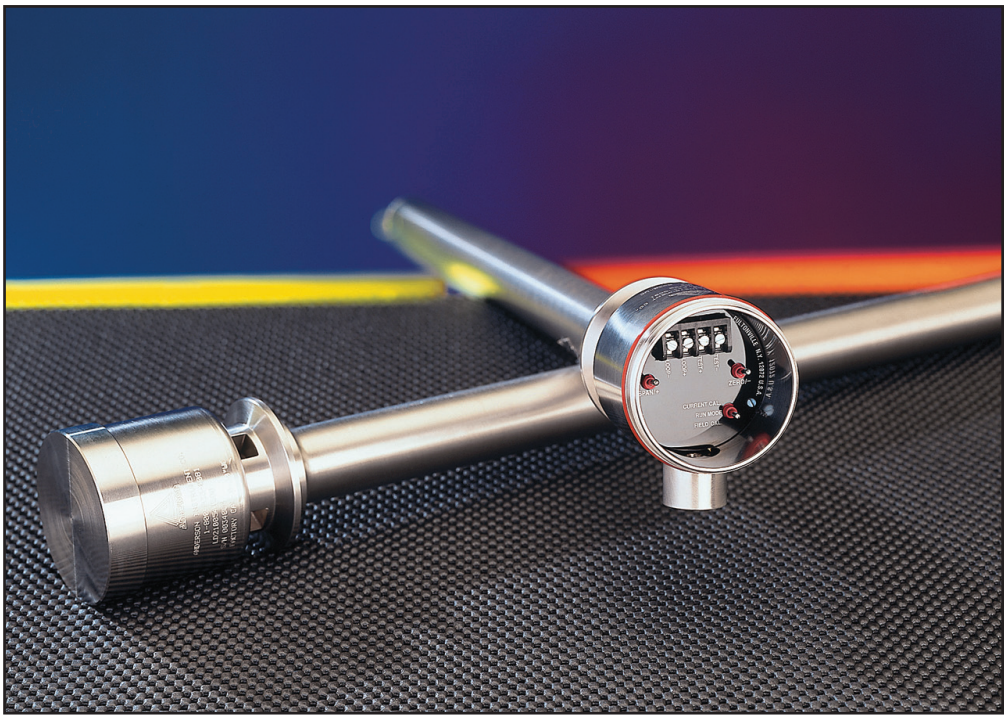
- *Top-mount configuration provides for easy installation without special fixturing or welding*
- *Micro-processor based platform*
- *No moving parts for highest reliability and cleaning in-place*
- *Quick Disconnect Receptacles with optional Field Wiring Connectors*
- *Standard lengths from 15" to 72" adaptable to any existing vessel*

Hundreds of customers have proven for themselves that the Anderson'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 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.



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# LA 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: | $R_a$=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 |

L A 2 1 0 0 5 ☐ ☐ ☐ ☐ ☐

**HOUSING**

2 Standard

**TEMPERATURE COMPENSATION**

1 -1.1° - 104.4°C

**FITTING**

005 2" Tri Clamp®

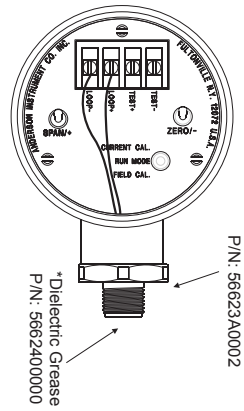
**INSERTION LENGTH**

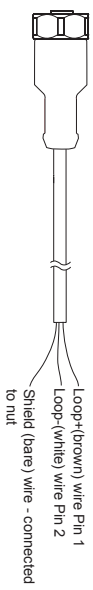
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 233 | 15" | 473 | 30" | 713 | 45" | 732 | 60" |
| 249 | 16" | 489 | 31" | 749 | 46" | 757 | 61" |
| 265 | 17" | 505 | 32" | 750 | 47" | 758 | 62" |
| 281 | 18" | 521 | 33" | 733 | 48" | 759 | 63" |
| 297 | 19" | 537 | 34" | 751 | 49" | 740 | 64" |
| 313 | 20" | 553 | 35" | 752 | 50" | 760 | 65" |
| 329 | 21" | 569 | 36" | 753 | 51" | 761 | 66" |
| 345 | 22" | 585 | 37" | 748 | 52" | 762 | 67" |
| 361 | 23" | 601 | 38" | 754 | 53" | 744 | 68" |
| 377 | 24" | 617 | 39" | 742 | 54" | 763 | 69" |
| 393 | 25" | 633 | 40" | 746 | 55" | 764 | 70" |
| 409 | 26" | 649 | 41" | 743 | 56" | 765 | 71" |
| 425 | 27" | 665 | 42" | 755 | 57" | 738 | 72" |
| 441 | 28" | 681 | 43" | 756 | 58" | | |
| 457 | 29" | 697 | 44" | 734 | 59" | | |

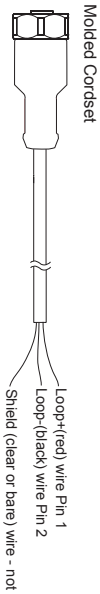
**SENSOR WIRING**

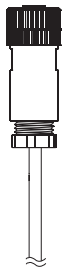
01 Quick Disconnect Receptacle (QDR) & Field Wireable Connector (FWC) w/No Cable (std.)
R0 QDR & 90° FWC w/No Cable
00 QDR w/No Cable, no FWC
05 QDR w/25 ft Standard Molded Cordset
10 QDR w/50 ft Standard Molded Cordset
20 QDR w/100 ft Standard Molded Cordset

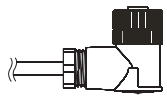
99 No QDR, no FWC and no Cable
(No sensor warranty for water damage)




FORM AIC5011P
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