



FLOW  
LEVEL  
PRESSURE  
ANALYTICAL  
TEMPERATURE  
INSTRUMENTATION  
PASTEURIZATION CONTROLS

## "LD" 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 36" adaptable to any existing vessel*

Hundreds of customers have proven for themselves that 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?
- 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 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.



# LD 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:  $\pm 0.75\%$  of URL ( $\pm 0.5"$  w.c.)  
 Repeatability: within  $\pm 0.3\%$  of URL ( $\pm 0.2"$  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:  $\pm 0.40\%$  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:  $\pm 0.05\%$  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  
 Receptacle: Turck minifast® 3-pin, Nema 4x/IP-65 connected or disconnected

## 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: Complies with all applicable provisions of 3-A Sanitary Standards (74-02)  
 Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC  
 Hazardous Locations: UL, 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

**LD 21005**

### HOUSING

2 Standard

### TEMPERATURE COMPENSATION

1 30° - 220°F

### 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

00	Quick Disconnect Receptacle (QDR) w/No Cable	21	QDR & FWC w/125 FT Cable
01	QDR & Field Wiring Connector (FWC) w/No Cable	22	QDR & FWC w/150 FT Cable
05	QDR & FWC w/25 FT Cable	23	QDR & FWC w/175 FT Cable
10	QDR & FWC w/50 FT Cable	24	QDR & FWC w/200 FT Cable
15	QDR & FWC w/75 FT Cable	98	QDR and Liquid Tight Flex 1/2" (16mm) Conduit Connector w/20 FT Cable
20	QDR & FWC w/100 FT Cable	99	No QDR, no FWC and no Cable (No sensor warranty for water damage)

