

RediLevel™ 2100 DLS

The Most Rugged, Reliable and Accurate Level Sensor on the Market—Just Got Smaller



The RediLevel™ 2100 DLS is Electrolab's general purpose digital level sensor for smaller tanks and storage vessels. The RediLevel is ideal for many industries as it can measure multiple fluid levels and temperatures. RediLevel features the same rugged, reliable and accurate technology as Electrolab's Model 2100 Level Sensor Product Line, which was first introduced to the harsh environments of the oil and gas industry.

KEY BENEFITS

- C1D1 certified for use in hazardous locations
- Certified intrinsically safe, explosion proof when used with an approved barrier
- Measures multiple levels and temperature zones through a single tank port
- Not affected by tank turbulence or changing environmental variables
- Easy installation—light-weight, slim profile fits through a two-inch tank port
- Easy startup—set the initial level offset and RediLevel is ready to monitor your tank
- Low maintenance, no calibration needed after installation
- Accurate and reliable level measurement to 0.25" resolution with +/- 0.125" accuracy
- Open communication protocols for hardwire or wireless communications
- Factory treated with e9 Pro Performance Metal Treatment to significantly reduce buildup



INDUSTRIES

Agricultural and Fertilizer
 Chemical
 Petrochemicals
 Water and Wastewater Treatment

APPLICATIONS

Storage Tanks and Vessels, including:
 Chemical Tanks
 Fuel Tanks
 Dispensing Tanks
 Small, Portable tanks
 Water and Wastewater Treatment Tanks
 Pressurized Vessels up to 250 psi

FLUIDS

Premium Chemicals
 Fertilizers and Agricultural Chemicals
 Fuel Cleaners
 Detergents
 Emulsions
 Hydraulic Fluids
 Industrial Effluent
 Wholesale Lubricants
 Petrochemicals
 Water and Wastewater Treatment Chemicals

Specifications

TUBING MATERIAL AND LENGTH	PRESSURE
<ul style="list-style-type: none"> • 316L Stainless Steel (standard): 18 gauge (standard) • Available in measurement lengths from 2 to 16 feet • 0.75" x 1.5" tube dimensions 	<ul style="list-style-type: none"> • 40 psi: standard • 250 psi: optional
LEVEL MEASUREMENT INCREMENTS	PROTOCOL
<ul style="list-style-type: none"> • 1/4-inch resolution with +/- 1/8-inch accuracy • +/- 0.1% repeatability 	<ul style="list-style-type: none"> • Modbus RTU 16-bit unsigned integer • Modbus RTU 32-bit floating point • Serial Data via ASCII • Modbus RTU 2 x 16-bit • Analog
FLOAT	WIRING
<ul style="list-style-type: none"> • Rugged, one piece Harsh Environment (HE) all nylon float. Ideal for acidic and highly caustic environments • One float to measure product level • One additional float (optional) to measure water interface level • Fits through a two-inch NPT female tank port 	<ul style="list-style-type: none"> • Two-wire communication: two twisted pair (16-18 AWG) recommended • Four-wire communication: three twisted pair (16-18 AWG) recommended
OPERATING TEMPERATURE RANGE	CLASSIFICATION
<ul style="list-style-type: none"> • -40° C to 80° C 	<ul style="list-style-type: none"> • Class I, Div. 1, Group D hazardous locations (when used with an explosion-proof housing or connected to an approved intrinsically safe barrier board)
TEMPERATURE MEASUREMENT	CERTIFICATION
<ul style="list-style-type: none"> • 12 inches from bottom • +/- 1.5° C accuracy 	<ul style="list-style-type: none"> • ANSI/UL-913, 7th Edition • CAN/CSA C22, No. 157
POWER REQUIREMENTS	POWER CONSUMPTION
<ul style="list-style-type: none"> • 5.6 VDC to 13 VDC • Startup, transmission to power down <200 msec 	<ul style="list-style-type: none"> • 15 mA nominal 20 mA maximum
COMMUNICATION	
<p>Open communication protocols allow Electrolab's level sensor to interface with many other manufacturers' equipment. We offer:</p> <ul style="list-style-type: none"> • RS485 <ul style="list-style-type: none"> • Two- or four- wire communications • Baud rate and parity programmable (up to 57,600 baud) • 4-20mA signal available when connected to a digital-to-analog converter board • Wireless communication compatibility with preferred partners 	