

Model 3001 LTC

LTC Levelogger Level, Temperature, Conductivity

The LTC Levelogger combines a datalogger, 8-year battery, pressure transducer, temperature and conductivity sensors in a small, corrosion-resistant zirconium oxide housing, 7/8" x 7" (22 mm x 180 mm).

The conductivity sensor is a 4-electrode platinum sensor. It auto-ranges from 20µS/cm to 80,000µS/cm. The LTC Levelogger has all the advantages of the standard Levelogger, with ease of transportation, programming, deployment, data collection and maintenance. Cleaning and calibration are simple. The LTC is not sensitive to hydrogen sulphide, sodium, chloride, or iron. It is stable in ethanol, BTEX and chlorinated hydrocarbons.

The software displays temperature-compensated conductivity and water level readings, and temperature. Memory is non-volatile, with a capacity of 16,000 sets of readings. Measurements may be linear or event-based in any interval between 1 second and 99 hours. The minimal-maintenance, sealed design makes it easy to hide from potential vandalism and offers long-term reliability. (See Data Sheet Model 3001 for more information on Leveloggers).

Sensor Specifications

Conductivity Sensor: 4-Electrode Platinum

- Range: 0 - 80,000 µS/cm
- Accuracy: 1% of reading or 10 µS/cm
- Resolution: 0.1% of reading
- Normalization: Automatic Temperature Compensation from 0°C to 40°C; Specific Conductance @ 25°C

Temperature Sensor: Spreading Resistance Silicon

- Range: -20°C to 80°C
- Accuracy: 0.2°C
- Resolution: 0.01°C

Level Sensor: Ceramic Pressure Transducer

Ranges	F30/M10	F100/M30	F330/M100
Maximum Depth of Readings at Sea Level	29.5 ft / 9 m	95.14 ft / 29 m	324.8 ft / 99 m
Resolution	0.007 ft / 0.2 cm	0.02 ft / 0.6 cm	0.067 ft / 2 cm
Accuracy	±0.1% FS from -10°C to 40°C		
Temperature Compensation	Automatic to 1% FS from 0°C to 40°C		



The corrosion resistant LTC Levelogger housing is composed of Zirconium Oxide (ZrO₂)

LTC Levelogger Specifications

- Not affected by hydrogen sulphide (H₂S), Na, Cl or Fe ions.
- Stable in BTEX components, chlorinated hydrocarbons and Ethanol.
- Wetted Materials: Zirconium Oxide (ZrO₂), Platinum, Akulon, Viton & Ceramic
- Battery Life: 8 years
- Clock Accuracy: Better than 2 seconds/day @ 25°C
- Operating Temperature: -20°C to 80°C
- Communication: Optical Infra-Red to RS232 or USB
- Dimensions: 7/8" x 7" (22 mm x 180 mm)
- Weight: 4.8 oz (138 g)
- Non-volatile flash memory

User-Friendly Software

The Levelogger software is easy-to-use. The Calibration and Barometric Wizards guide you quickly through the processes. Data can be downloaded at any time and can be displayed in graph or table format or exported to other programs. Temperature compensation is automatic, but temperature variations can also be displayed. A handy Barometric Compensation Wizard guides you through the compensation process to provide corrected data.

Applications

- Plume remediation sites and monitoring studies
- Salt water intrusion
- Leachate monitoring at landfills, mine tailings, waste disposal, storage sites, and more
- Agricultural and stormwater runoff monitoring
- Tracer tests