

## Levelogger®

Model 3001

### LTC Conductivity Levelogger

The LTC combines a 4-electrode platinum conductivity sensor with a pressure transducer, thermistor, 8-year battery and a datalogger all within a factory-sealed maintenance-free stainless steel housing.

The software displays temperature compensated conductivity and water level readings, and temperature. Memory capacity is 16,000 sets of readings, with options for linear or event-based sampling, in any interval between 1 second and 99 hours. It has an accuracy of  $\pm 0.1$  mg/L.

Please See Data Sheet Model 3001 for more information on Leveloggers. Rental units are available.

#### Small-Sized Low-Maintenance Design

LTC Leveloggers are small and compact at 0.87" x 10.2" (22 mm x 260 mm). The minimal-maintenance, sealed design offers protection from power surges, such as lightning and pumps, makes it easy to hide from potential vandalism, and offers long-term reliability.

The LTC uses trouble-free, infra-red communications with a choice of direct read cable or suspension on a simple wireline.

### LTC Sensor Specifications

#### Conductivity Sensor: 4-Electrode Platinum

- Range: 0 - 5 mS/cm; 0 - 50 mS/cm
- Accuracy: 1% FS
- Resolution: 0 - 5 mS/cm; 1 $\mu$ S/cm, 0 - 50 mS/cm; 10 $\mu$ S/cm
- Normalization: Automatic Temperature Compensation from -10°C to 40°C; Specific Conductance@ 25°C

#### Level Sensor: Ceramic Pressure Transducer

- Ranges: F100/M30, F330/M100
- Max. Depth of Readings @ sea level  
F100/M30 = 95.14 ft/29m; F330/M100 = 324.8 ft/99m
- Over-Range Limit Without Damage  
F100/M30 = 150 ft/45m; F330/M100 = 450 ft/150m
- Accuracy:  $\pm 0.1\%$  FS from -10°C to 40°C
- Resolution: F100/M30 = 0.02ft/0.6cm  
F330/M100 = 0.07ft/2cm
- Normalization: Automatic Temperature Compensation (to 1%FS from -10°C to 40°C)

#### Temperature Sensor: Spreading Resistance Silicon

- Range: -20°C to 80°C
- Compensation Range: -10°C to 40°C
- Accuracy: 0.1°C
- Resolution: 0.01°C



### User-Friendly Software

The Levelogger software is easy-to-use. Programming is very fast, using just one screen. There is ample space for site and location information, and the choice of sampling regime takes just a moment.

Calibration is a snap, as the software guides you quickly through the process. Data can be downloaded at any time and can be displayed in graph or table format. Temperature compensation is automatic, but temperature variations can also be displayed. A handy Barometric Compensation Wizard guides you through the compensation process with depth data, then the data can be exported to other programs, if desired.

### LTC Applications

LTC Leveloggers have linear, or event-based sampling options and both conductivity calibration and barometric compensation wizards. They are ideal for use in the following applications:

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

### General Levelogger Specifications

Wetted Materials: 316-L Stainless Steel & Viton

Battery Life: 8-10 years

Clock Accuracy: Better than 1 second/day

Operating Temperature: -20°C to 80°C

Communication: RS232 (Optical Infra-Red)

LTC Dimensions: 7/8" x 10.2" (22 mm x 260 mm)

LTC Weight: 10.2 oz (290 g)