LTC Levelogger Junior

Level, Temperature, Conductivity

The LTC Levelogger Junior logs conductivity, as well as water level and temperature. Like the LT Levelogger Junior Edge, it is easy to transport, program, deploy and retrieve data. It combines a datalogger, 5-year battery, pressure transducer, and temperature and conductivity sensors within a small waterproof housing, 7/8" x 7.5" (22 mm x 190 mm).

The conductivity sensor is a 4-electrode platinum sensor, with auto-ranging capabilities. The minimal maintenance, sealed LTC Levelogger Junior is simple to clean and calibrate, even in the field.

Using Levelogger Series Software, it displays conductivity, temperature, and temperature-compensated water level. Memory is non-volatile and stores up to 16,000 sets of readings. Measurements are linear, in any interval between 5 seconds and 99 hours.

See the Model 3001 Edge Data Sheet for more information on the Levelogger Series of dataloggers, accessories and software.

Technical Specifications	
Level Sensor:	Piezoresistive Silicon with Hastelloy Sensor
Ranges:	F30/M10, F100/M30
Accuracy (typical):	0.1% FS
Resolution:	0.08" (0.2 cm), 0.24" (0.6 cm)
Normalization:	Automatic Temp Compensation
Temperature Sensor:	Platinum RTD
Accuracy:	± 0.1˚C
Resolution:	0.1˚C
Temp Compensation Range:	10˚C to 40˚C
Conductivity Sensor:	4-Electrode Platinum
Full Range:	0 - 80,000 µS/cm
Calibrated Range:	500 - 50,000 µS/cm
Accuracy:	2% of reading or 20 µS/cm
Resolution:	1 µS
Temp. Compensation Range:	0˚C to 40˚C
Normalization:	Specific Conductance @ 25˚C
General:	
Battery Life:	5 Years (5 minute sampling rate)
Clock Accuracy:	± 1 minute/year from 0 to 40˚C
Operating Temperature:	- 20˚C to 80˚C
Memory:	Non-volatile EEPROM, FRAM back-up
Maximum Readings:	16,000 sets of readings
Communication:	Optical Infra-red: USB, RS232, SDI-12
Size:	7/8" x 7.5" (22 mm x 190 mm)
Weight:	7.05 oz. (200 grams)
Wetted Materials:	Platinum, 316L Stainless Steel, Delrin®, Viton®
Sampling Mode:	Linear, (5 sec to 99 hrs), Real Time View
Barometric Compensation:	Software Wizard and Barologger Edge

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Features

- Low Cost
- Three measurements in one probe
- Compatible with Levelogger Software and accessories
- Single or multi-point calibration
- Compact, low maintenance, waterproof design
- Faraday Cage protection against power surges
- Real-time viewing and data export to other programs
- Compatible with Solinst Telemetry Systems and SDI-12

User-Friendly Operation

Barometric Compensation and Calibration Wizards guide you through the calibration process and compensation, to provide corrected data. Levelogger Software allows you to easily program your preferences, download data, and display data in a graph or table format or export to other programs.

The Real Time View option allows immediate viewing of live conductivity, water level and temperature readings. Leveloggers are easy to deploy; installation can be with direct read cables or wireline/cord suspension, avoiding the use of vented cables (see Model 3001 Edge Data Sheet).

The LTC Levelogger Junior is SDI-12 compatible, can communicate with a Leveloader data transfer device, and is able to integrate into a Solinst Telemetry System (see Model 9100/9200 Data Sheet).

Applications

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

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