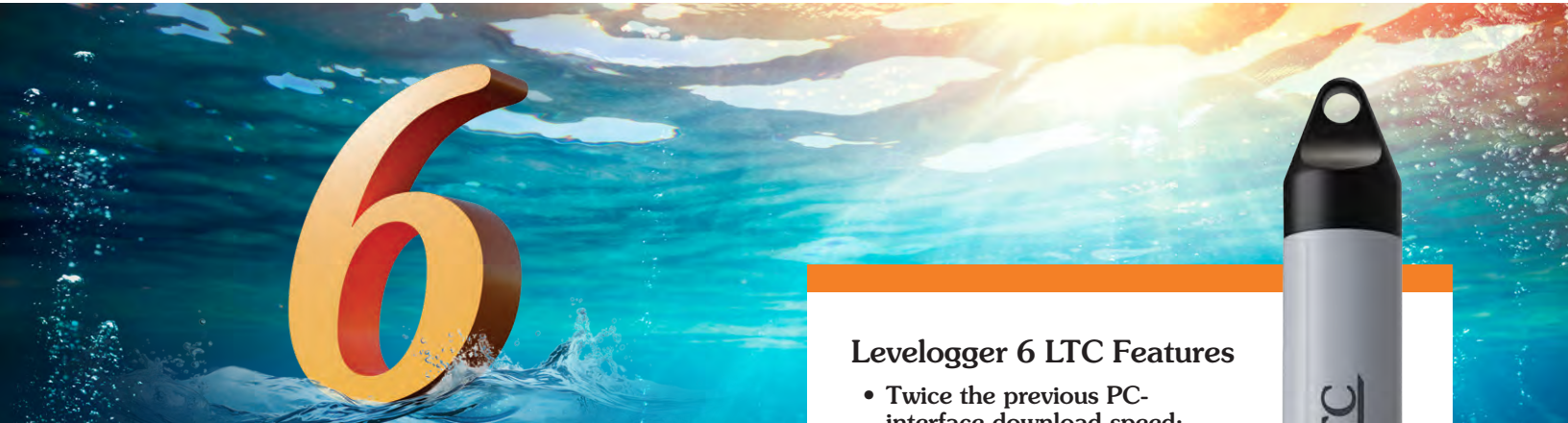




Levellogger 6 LTC

Level, Temperature, Conductivity



The Levellogger® 6 LTC logs water level, temperature, and conductivity. It combines a datalogger, 8-year battery, Hastelloy® pressure sensor, temperature detector, and conductivity sensor within a small waterproof housing, 22 mm x 208 mm (7/8" x 8.2"). A baked-on coating using polymerization technology protects the body against corrosion, abrasion and high temperatures. Double o-ring seals protect against leaks. The conductivity sensor is a 4-electrode platinum sensor, with autoranging capabilities. The minimal-maintenance, sealed Levellogger 6 LTC is simple to clean and calibrate, even in the field.



Levellogger 6 LTC and the Biofoul Screen

When a Levellogger 6 LTC is deployed for an extended period, there is the risk of biofouling on the pressure sensor and/or conductivity cell, which can compromise their readings.

The Biofoul Screen is designed to reduce the unwanted buildup of microorganisms, plants, algae, or organisms such as barnacles and mussels, on the sensors. The Biofoul Screen consists of a Delrin sleeve wrapped with copper wire. Slip onto the sensor end of a Levellogger 6 LTC, where it is held in place by compression fit.

Using the natural anti-fouling characteristics of copper, the Biofoul Screen is an affordable option to lengthen the time a Levellogger 6 LTC can be deployed. It reduces site visits and time spent cleaning Levelloggers, and improves long-term performance by ensuring accurate sensor measurements.

Levellogger 6 LTC Features

- **Twice the previous PC-interface download speed:** using the Mk3 USB-C PC Interface Cable.
- **Enhanced electronics:** increased stability, sensitivity, and accuracy across temperature ranges
- **Large memory:** 100,000 sets of data, with dedicated backup memory for 15,000 sets
- **Superior protection in harsh conditions:** baked-on coating using polymerization, double o-ring seals
- **Improved time tracking:** stores time stamps, supports multiple time zone displays

Levellogger 6 LTC 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
- Create a historical database for potable water supply monitoring
- Tracer tests



User-Friendly Operation

Software Calibration and Data Wizards guide you through conductivity calibration and barometric compensation, ensuring accurate data sets. The Data Wizard also converts conductivity readings to Specific Conductance (@ 25°C).

Levellogger Software allows you to easily program your preferences, download data, and display data in a graph or table format or export to other programs. Real Time View allows immediate viewing of live water level, conductivity, and temperature readings.

Levelloggers are easy to deploy; install with direct read cables or wireline/cord suspension. The Levellogger 6 LTC is SDI-12 and MODBUS compatible using an Interface Cable.



Download data in the field using the Solinst Readout Unit (SRU), DataGrabber USB data transfer device, or through *Bluetooth®* using the Levellogger App Interface and your smart device. Integrate the Levellogger 6 LTC with Solinst Telemetry Systems, which use the latest wireless technologies.

Levellogger App Interface

The Solinst Levellogger App is designed to communicate to Solinst dataloggers via your smart device. Programming options include start/stop, data downloading, linear and real-time sampling, future start/stop, and GPS coordinates.

The Levellogger App Interface uses Bluetooth wireless technology to connect with your smart device running the Solinst Levellogger App. Use our Levellogger App Interface and a Solinst direct read cable to communicate to a downhole Levellogger and email data files right from the field (see [Model 3001 Solinst Levellogger App Interface](#) data sheets).



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LevelSender Telemetry System

Instantly add cellular telemetry to your Levellogger 6 LTC by connecting to a Model 9500 LevelSender. Send data from your remote stations to the Solinst Cloud, or via FTP to a location of your choice. The LevelSender simplifies your telemetry setup, by working with Solinst direct read cables and is compatible with the full Levellogger Series product line (see [Model 9500 LevelSender](#) data sheet).



SolSat Satellite Telemetry

SolSat Satellite Telemetry uses Iridium satellite technology to provide global connectivity for your remote water monitoring projects. The SolSat is simple to set up with the Solinst Levellogger 6 LTC using an intuitive and secure Wi-Fi App on your smart device. The SolSat features a built-in barometer, solar panel and a compact weatherproof enclosure for deployment almost anywhere (see [Model 9700 SolSat](#) data sheet).



Levellogger 6 LTC Specifications

Level Sensor:	Piezoresistive Silicon with Hastelloy Sensor
Ranges:	5, 10, 20, 30, 100, and 200 m
Accuracy:	±0.05% FS
Resolution:	0.001% FS to 0.0006% FS
Over-pressurization:	2-times over-pressure without permanent damage
Units of Measure:	cm, m, ft, psi, kPa, bar (°C, °F)
Normalization:	Automatic Temperature Compensation
Temp Comp. Range:	0°C to 50°C
Temperature Sensor:	Platinum Resistance Temperature Detector (RTD)
Accuracy:	±0.05°C
Resolution:	0.003°C
Conductivity Sensor:	4-Electrode Platinum
Full Range:	0 – 100,000 µS/cm
Calibrated Range:	50 – 80,000 µS/cm
Accuracy:	±1%: 5,000 µS/cm – 80,000 µS/cm; greater of ±2% or 15 µS/cm: 50 µS/cm – 5,000 µS/cm
Resolution:	0.1 µS/cm
Temp Comp. Range:	0°C – 50°C
Normalization:	Specific Conductance @ 25°C
Battery Life:	8 Years (1 reading every 5 minutes)
Clock Accuracy (typical):	±1 minute/year (-20°C to 80°C)
Operating Temperature:	-20°C to 80°C
Maximum Readings:	100,000 sets of readings
Dedicated Backup Memory:	15,000 sets of most recent readings
Memory:	Slate or Continuous
Communication:	Optical high-speed: 9600, 57600 bps with USB Desktop/ Field Reader, 19.2k with Mk3 USB-C PC Interface Cable
Size:	22 mm x 208 mm (7/8" x 8.2")
Weight:	200 grams (7.06 oz)
Corrosion Resistance:	Baked-on coating using polymerization technology (inside and out)
Other Wetted Materials:	Delrin®, Viton®, 316L stainless steel, Hastelloy®, PFAS- free PTFE coating, platinum coated sensors
Sampling Mode:	Linear, Event & User-Selectable Schedule with Repeat & Pause Modes, Future Start, Future Stop, Real-Time View
Measurement Rates:	2 seconds to 99 hours
Barometric Compensation:	Software Wizard and Barologger 6

Models	Full Scale (FS)	Accuracy	Resolution
M5, C80	5 m (16.4 ft.)	± 0.3 cm (0.010 ft.)	0.001% FS
M10, C80	10 m (32.8 ft.)	± 0.5 cm (0.016 ft.)	0.0006% FS
M20, C80	20 m (65.6 ft.)	± 1 cm (0.032 ft.)	0.0006% FS
M30, C80	30 m (98.4 ft.)	± 1.5 cm (0.049 ft.)	0.0006% FS
M100, C80	100 m (328.1 ft.)	± 5 cm (0.164 ft.)	0.0006% FS
M200, C80	200 m (656.2 ft.)	± 10 cm (0.328 ft.)	0.0006% FS

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