# Levelogger 5 vs. Levelogger 6: What's New

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**The Levelogger 6** brings a modern standard to water level datalogging. The core measurement specs remain familiar to Levelogger 5 users, but the Levelogger 6 improves the practical field experience with USB-C, faster Mk3 PC Interface Cable communication, integrated datalogger/cable diagnostics, LED fault feedback, backup memory, and better software-side data handling. Here is a summary of the practical improvements that come with the Levelogger 6:

| Feature | Levelogger 5  | Levelogger 6  | Practical Improvement |
|---|---|---|---|
| **Updated Software Platform** | Levelogger Software 4.7.0 focused on Levelogger 5 Series, compatible with Edge Series. | Levelogger Software 6.0.0 focuses on Levelogger 6 Series; also compatible with Levelogger 5 and Edge Series. | One current platform for the Levelogger 6, while preserving much of the older series workflow. |
| **Levelogger Software Requirements** | Backwards compatible and can use Levelogger Software 6.0.0. | Levelogger 6 Series is not backwards compatible with previous Levelogger Software; requires Software 6.0.0 and up. | Clear migration requirement: customers must update software before programming Levelogger 6 dataloggers. |
| **USB-A vs USB-C Communication Ports** | Levelogger 5 Series used USB-A devices such as Desktop Reader 5, Field Reader 5, Optical Reader, or PC Interface Cable. | Levelogger 6 supports USB-A or USB-C ports and includes current USB-C Desktop Reader, Field Reader, and Mk3 PC Interface Cables as HID devices. | Better fit for modern laptops. Much faster communication speeds with USB-C for data downloads and firmware upgrades. |
| **Logger and Cable Diagnostics in Software Setup Screen** | Levelogger 5 setup section has Datalogger Information, Memory, and Time, but no setup-level Logger and Cable Diagnostic Tests section. | Levelogger 6 adds Logger and Cable Diagnostic Tests. It shows startup self-test results for the logger and, when using an Mk3 PC Interface Cable, the Direct Read Cable (DRC). | Big field-service improvement: logger/cable faults become visible. Eliminates other possible issues (e.g. laptop, software). |
| **Automatic Startup Diagnostics and Utility** | Diagnostics Utility exists, but it is less integrated into the setup workflow. Get Quote | Levelogger 6 self-tests run automatically when the datalogger first connects; results appear in the settings window and Diagnostic tab (including real-time readings). Diagnostic Utility is still there. | Faster service triage. Better returns screening. More evidence before replacing hardware. |
| **Last LTC Calibration Time Visibility** | Datalogger Information shows Status, Start Time, and Stop Time in the software. | If a Levelogger 6 LTC is connected, the software also shows Last Calibration time. | Useful QA/QC improvement for conductivity work. Helps avoid "when was this last calibrated?" questions. |
| **Data Handling Tools** | Data Control just includes downloading, saving, graph manipulation, export/print. | Levelogger 6 adds the ability to view UTC time stamped data, Merge Files (separate data files into one) and a Data Analysis Function to identify minimum, maximum, and average values over user-defined intervals. | Better built-in data workflow. Less need for Excel for basic file consolidation/analysis. |
| **PC Interface Cable Feedback** | Used USB-A PC Interface Cable that has no LED or diagnostics. | Levelogger 6 adds Mk3 USB-C PC Interface Cable with an LED providing test signals and fault codes. | The Cable can tell the user whether the DRC has short, open, ground, noise, voltage, or interface faults. |
| **Dedicated Backup Memory** | Read Memory Dump option in Diagnostic Utility. No separate dedicated "secondary" data storage. | Levelogger 6 adds Recover Previous Log option back in Data Control. Dedicated backup "secondary" storage for up to 20,000 readings. | Ensures your data is always secure. |

# Levelogger Specification Comparison

| Model 3001 | Levelogger 6 and 5    single optical eye | Levelogger Edge    dual optical eyes |
|---|---|---|
| **Pressure Transducer** | Piezoresistive Silicon with Hastelloy® Sensor | ✓ |
| Calibrated Ranges | 5, 10, 20, 30, 100, 200 m, Atm. Barologger<br>15, 30, 65, 100, 300, 600 ft, Atm. Barologger | ✓ |
| Accuracy | Levelogger: ± 0.05% FS<br>Barologger: ± 0.05 kPa | ✓ |
| Resolution | 0.001% FS to 0.0006% FS | ✓ |
| Calibration | Factory – Lifetime calibration | ✓ |
| Response Time (90% Thermal Δ) | 1 minute / 10˚C change | ✓ |
| Automatic Temperature Compensation Range | Levelogger: 0 to +50°C<br>Barologger: -10 to +50°C | ✓ |
| Over-pressure Range | 2 X Full Scale | ✓ |
| **Temperature Sensor** | Platinum Resistance Temperature Detector (RTD) | ✓ |
| Temperature Accuracy | ± 0.05°C | ✓ |
| Temperature Resolution | 0.003°C | ✓ |
| **Operating Temp Range** | -20 to +80°C | ✓ |
| **Clock Accuracy (typical)** | ± 1 minute / year (-20 to +80°C) | ✓ |
| **Battery Life** | 10 Years (based on 1 reading/minute) | ✓ |
| **Size** | 22 mm x 160 mm (7/8" x 6.3") | 22 mm x 159 mm (7/8" x 6.25") |
| **Weight** | 146 grams (5.2 oz) | 129 grams (4.6 oz) |
| **Memory** | 150,000 sets of readings<br>(**Levelogger 6** has a dedicated backup memory that automatically & independently records the most recent 20,000 sets of readings). | 40,000 sets of readings |
| **Memory Mode** | Slate or Continuous | ✓ |
| **Logging Rates** | 0.125 sec to 99 hours | ✓ |
| **Logging Modes** | Linear, User-Selectable Schedule with Repeat & Pause Modes, Event, Future Start, Future Stop, Real Time View | ✓ |
| **Barometric Compensation** | High accuracy, air-only, Barologger | ✓ |
| **Display Units** | Levelogger: cm, m, ft, psi, kPa, bar °C, °F<br>Barologger: kPa, psi, mbar °C, °F | ✓ |
| **Corrosion Resistant Coating** | Baked-on coating using polymerization technology (inside and out) | Titanium based PVD |
| **Wetted Materials** | Delrin®, Viton®, 316 L Stainless Steel, Hastelloy, PFAS-free PTFE | Delrin®, Viton®, 316 L Stainless Steel, Hastelloy, Ti PVD |
| **Leveloader Gold Compatible** | No | Yes (Leveloader firmware upgrade required) |
| **Communication Interface** | USB, SDI-12, MODBUS* | ✓ |
| **Communication Speed (baud)** | 9600, 57600 with USB Desktop/Field Reader, 19.2k with Mk3 USB-C PC Interface Cable | 9600 , 38400 with USB Optical Reader |

*SDI-12 and MODBUS communication requires the use of a surface Interface Cable.



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