



## Levellogger 6 Junior

Model 3001

The Levellogger 6 Junior provides an inexpensive alternative for measuring groundwater and surface water levels and temperature. The Levellogger 6 Junior combines a pressure sensor, temperature detector, a datalogger, and a 5-year battery (based on a 1-minute sampling rate) in one compact 22 mm x 160 mm (7/8" x 6.3") stainless steel housing.

The Levellogger 6 Junior records absolute pressure using the same durable Hastelloy® pressure sensor as the Levellogger 6. The Hastelloy sensor performs well in harsh environments and withstands 2 times the overpressure without permanent damage.

The Levellogger 6 Junior's memory holds up to 75,000 sets of temperature and water level data. It records readings at user-defined intervals from 0.5 seconds to 99 hours. Accuracy is 0.1% FS with lifetime factory calibration.

If greater accuracy, more sampling options, or a wider depth range are required, the Solinst Levellogger 6 has the functionality to suit your application (see [Model 3001 Levellogger 6 data sheet](#)). For conductivity datalogging, Solinst offers the Levellogger 6 LTC (see [Model 3001 Levellogger 6 LTC data sheet](#)).



## Levellogger 6 Junior Features

- Low cost
- Robust Hastelloy pressure sensor
- Memory for 75,000 data points with dedicated backup
- 5-year battery life (based on 1 reading per minute)
- Works with all Levellogger 6 Series accessories
- 2X communication speed with new PC Interface Cable

## Levellogger 6 Junior Applications

- Monitoring water levels in wells and surface water
- Pump and slug tests
- Reservoir and stormwater runoff management
- Watershed and drainage basin monitoring
- Stream gauging, lake and wetland monitoring
- Tank level measurement



| LT Models  | Full Scale (FS) | Accuracy            | Resolution |
|------------|-----------------|---------------------|------------|
| <b>M5</b>  | 5 m (16.4 ft)   | ± 0.5 cm, 0.016 ft. | 0.02% FS   |
| <b>M10</b> | 10 m (32.8 ft)  | ± 1.0 cm, 0.032 ft. | 0.01% FS   |



## Levellogger 6 Junior Operation

Programming the Levellogger 6 Junior is the same as the Levellogger 6. Use a Desktop Reader, Field Reader, or PC Interface Cable to connect to a PC. The Levellogger Software automatically detects the device type. Programming, downloading, managing, and exporting data are intuitive. Real Time View shows live water level and temperature readings instantly, independent of programmed intervals.

The Levellogger 6 Junior outputs temperature and temperature-compensated water level readings. With the Data Wizard in the Solinst Levellogger Software, you can barometrically

compensate several Levellogger 6 Junior files at once, using a single Barologger 6 file. The Levellogger 6 Junior works with Levellogger 6 Series accessories, such as the Solinst Levellogger App Interface, Solinst Readout Unit (SRU), DataGrabber data transfer device, SDI-12/MODBUS Interface Cable, and Solinst Telemetry Systems.

These compact dataloggers are straightforward to deploy. Install them with direct read cables, stainless steel wireline or Kevlar® cord suspension, with the option of using Solinst 2" Locking Well Caps.

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## Levellogger App Interface

A smart alternative for programming, data collection, viewing and sharing, is the Levellogger App Interface that uses *Bluetooth®* wireless technology to connect all Levellogger Series products to your smart device running the Solinst Levellogger App (see [Model 3001 Solinst Levellogger App Interface data sheets](#)).



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| Model 3001                    |  Levellogger 6       |  Levellogger 6 Junior |
|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Warranty                      | 3 Years                                                                                               | 1 Year                                                                                                   |
| Pressure Transducer           | Piezoresistive Silicon with Hastelloy Sensor                                                          | Piezoresistive Silicon with Hastelloy Sensor                                                             |
| Calibrated Ranges             | 5, 10, 20, 30, 100, 200 m, Atm. Barologger                                                            | 5, 10 m                                                                                                  |
| Accuracy                      | ± 0.05% FS (Barologger 6 ±0.05 kPa)                                                                   | ± 0.1% FS                                                                                                |
| Resolution                    | 0.001% FS to 0.0006% FS                                                                               | 0.02% FS to 0.01% FS                                                                                     |
| Units of Measure              | cm, m, ft, psi, kPa, bar, (°C, °F)                                                                    | cm, m, ft, psi, kPa, bar, (°C, °F)                                                                       |
| Normalization                 | Automatic Temperature Compensation                                                                    | Automatic Temperature Compensation                                                                       |
| Calibration                   | Factory – Lifetime calibration                                                                        | Factory – Lifetime calibration                                                                           |
| Response Time (90% Thermal Δ) | 1 minute/10°C change                                                                                  | 1 minute/1°C change                                                                                      |
| Temp Comp Range               | 0 to +50°C (Barologger 6 -10 to +50°C)                                                                | 0 to +40°C                                                                                               |
| Over-pressure Range           | 2 X                                                                                                   | 2 X                                                                                                      |
| Temperature Sensor            | Platinum Resistance Temperature Detector (RTD)                                                        | Platinum Resistance Temperature Detector (RTD)                                                           |
| Temperature Accuracy          | ± 0.05°C                                                                                              | ± 0.1°C                                                                                                  |
| Temperature Resolution        | 0.003°C                                                                                               | 0.1°C                                                                                                    |
| Operating Temp Range          | -20 to +80°C                                                                                          | -20 to +80°C                                                                                             |
| Clock Accuracy (typical)      | ± 1 minute / year (-20°C - +80°C)                                                                     | ± 1 minute / year (-20°C - +80°C)                                                                        |
| Battery Life                  | 10 Years (based on 1 reading/minute)                                                                  | 5 Years (based on 1 reading/minute)                                                                      |
| Size                          | 22 mm x 160 mm (7/8" x 6.3")                                                                          | 22 mm x 160 mm (7/8" x 6.3")                                                                             |
| Weight                        | 146 grams (5.2 oz)                                                                                    | 145 grams (5.1 oz)                                                                                       |
| Memory                        | 150,000 sets of readings (separate dedicated backup for latest 20,000 readings)                       | 75,000 sets of readings (separate dedicated backup for latest 500 readings)                              |
| Communication Speed (baud)    | 9600, 57600 with USB Desktop/Field Reader, 19.2k with Mk3 USB-C PC Interface Cable                    | 9600, 57600 with USB Desktop/Field Reader, 19.2k with Mk3 USB-C PC Interface Cable                       |
| Com Interface                 | Optical high-speed: USB, SDI-12, MODBUS*                                                              | Optical high-speed: USB, SDI-12, MODBUS*                                                                 |
| Memory Modes                  | Continuous or Slate                                                                                   | Continuous or Slate                                                                                      |
| Logging Rates                 | 0.125 sec to 99 hours                                                                                 | 0.5 sec to 99 hours                                                                                      |
| Logging Modes                 | Linear, Event & User-Selectable Schedules with Repeat Mode, Future Start, Future Stop, Real Time View | Linear, Real Time View, Future Start                                                                     |
| Barometric Compensation       | Data Wizard and Barologger 6                                                                          | Data Wizard and Barologger 6                                                                             |
| Corrosion Resistance          | Baked-on coating using polymerization technology (inside and out) and Hastelloy Sensor                | 316L Stainless Steel and Hastelloy Sensor                                                                |
| Wetted Materials              | Delrin, Viton, Hastelloy, 316L Stainless Steel, PFAS-free PTFE                                        | Delrin, Viton, Hastelloy, 316L Stainless Steel                                                           |

\*SDI-12 and MODBUS communication requires a surface Interface Cable for operation.

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