Levelogger 6 Junior

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Model 3001 Data Sheet

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Levelogger 6 Junior

Model 3001

The Levelogger 6 Junior provides an inexpensive alternative for measuring groundwater and surface water levels and temperature. The Levelogger 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 Levelogger 6 Junior records absolute pressure using the same durable Hastelloy® pressure sensor as the Levelogger 6. The Hastelloy sensor performs well in harsh environments and withstands 2 times the overpressure without permanent damage.

The Levelogger 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 Levelogger 6 has the functionality to suit your application (see Model 3001 Levelogger 6 data sheet). For conductivity datalogging, Solinst offers the Levelogger 6 LTC (see Model 3001 Levelogger 6 LTC data sheet).

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

Levelogger 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 Levelogger 6 Series accessories
- 2X communication speed with new PC Interface Cable

Levelogger 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

Levelogger 6 Junior Operation

Programming the Levelogger 6 Junior is the same as the Levelogger 6. Use a Desktop Reader, Field Reader, or PC Interface Cable to connect to a PC. The Levelogger 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 Levelogger 6 Junior outputs temperature and temperature-compensated water level readings. With the Data Wizard in the Solinst Levelogger Software, you can barometrically compensate several Levelogger 6 Junior files at once, using a single Barologger 6 file. The Levelogger 6 Junior works with Levelogger 6 Series accessories, such as the Solinst Levelogger 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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Levelogger App Interface

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

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Levelogger Comparison

Model 3001	 Levelogger 6	 Levelogger 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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