

Levelogger Junior Edge

Model 3001

The Levelogger Junior Edge provides an inexpensive alternative for measuring groundwater and surface water levels and temperature. The Levelogger Junior Edge combines a pressure sensor, temperature detector, a datalogger, and 5-year battery (based on a 1-minute sampling rate) in one compact 7/8" x 5.6" (22 mm x 142 mm) stainless steel housing.

The Levelogger Junior Edge records absolute pressure using the same durable Hastelloy® pressure sensor as the Levelogger Edge. The Hastelloy sensor has excellent performance in harsh environments with better temperature compensation and thermal response time, and can withstand 2 times overpressure without permanent damage.

The Levelogger Junior Edge features FRAM memory, with a capacity of 40,000 sets of temperature and water level data points. Readings are linear at a user-defined interval between 0.5 second to 99 hours. Accuracy is 0.1% FS, with lifetime factory calibration.

If greater accuracy, more sampling options, or wider depth ranges are required, the Solinst Levelogger Edge has the functionality to suit your application (see Model 3001 Edge data sheet). For conductivity datalogging, Solinst also offers the LTC Levelogger Edge (see Model 3001 LTC Levelogger Edge data sheet).



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Features

- Low cost
- Accuracy of 0.1% FS
- Memory for 40,000 data points
- Robust Hastelloy pressure sensor
- Basic and advanced data compensation options

Operation

Programming the Levelogger Junior Edge is the same as with the Levelogger Edge. An Optical Reader or PC Interface Cable connects the Levelogger to a laptop or desktop PC. The intuitive Levelogger Software automatically detects the type of Levelogger that is connected. Programming, downloading, data management and export are intuitive tasks. The Real Time View option allows immediate viewing of live water level and temperature readings, independent of the scheduled programming intervals.

The Levelogger Junior Edge outputs temperature and temperature compensated water level readings. Using the Data Wizard in the Levelogger Software, you can barometrically compensate multiple Levelogger Junior Edge files simultaneously, with just one Barologger Edge file.

The Levelogger Junior Edge is compatible with Levelogger Series accessories, including the Solinst Levelogger App and Interface, the DataGrabber data transfer device, SDI-12 Interface Cable, and Solinst Telemetry Systems.

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

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

Level Sensor:	Piezoresistive Silicon with Hastelloy Sensor
Ranges:	5, 10 m
Accuracy:	± 0.1% FS
Resolution:	0.02% FS to 0.01% FS
Units of Measure:	cm, m, ft, psi, kPa, bar, (°C, °F)
Normalization:	Automatic Temp Compensation
Temp Compensation Range:	0°C to 40°C
Temperature Sensor:	Platinum Resistance Temperature Detector (RTD)
Accuracy:	± 0.1°C
Resolution:	0.1°C
Battery Life:	5 Years (based on 1 reading/minute)
Operating Temperature:	- 20°C to 80°C
Clock Accuracy:	± 1 minute/year (- 20°C to 80°C)
Memory:	FRAM
Maximum Readings:	40,000 sets of readings
Communication:	Optical Infrared to USB, RS232, or SDI-12
Size:	7/8" x 5.6" (22 mm x 142 mm)
Weight:	4.2 oz. (119 grams)
Wetted Materials:	316 Stainless Steel, Delrin®, Viton®, Hastelloy
Sampling Mode:	Linear, Real Time View, Future Start
Measurement Rates:	0.5 sec to 99 hours
Barometric Compensation:	Data Wizard and Barologger Edge

LT Models	Full Scale (FS)	Accuracy	Resolution
M5	5 m (16.4 ft)	± 0.6 cm, 0.020 ft.	0.02% FS
M10	10 m (32.8 ft)	± 1.0 cm, 0.032 ft.	0.01% FS

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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).



Model 3001	 Levellogger Edge CE WEEE	 Levellogger Junior Edge CE WEEE
Warranty	3 Years	1 Year
Pressure Transducer	Piezoresistive Silicon with Hastelloy Sensor	
Calibrated Ranges:	5, 10, 20, 30, 100, 200 m, Atm. Barologger	5, 10 m
Accuracy	± 0.05% FS (Barologger Edge ±0.05 kPa)	± 0.1% FS
Resolution	0.002% FS to 0.0006% FS	0.02% FS to 0.01% FS
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 Edge -10 to +50°C)	0 to +40°C
Over-pressure Range	2 X	2 X
Temperature Sensor	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	± 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	7/8" x 6.25" (22 mm x 159 mm)	7/8" x 5.6" (22 mm x 142 mm)
Weight	4.6 oz. (129 grams)	4.2 oz. (119 grams)
Memory	40,000 readings in FRAM memory, or up to 120,000 readings using data compression option	40,000 readings in FRAM memory, no data compression option
Communication Speed	9600 bps, 38,400 bps with HS USB Optical Reader	9600 bps
Com Interface	Optical infra-red: USB, RS232, SDI-12	Optical infra-red: USB, RS232, SDI-12
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 Edge	Data Wizard and Barologger Edge
Corrosion Resistance	Titanium based PVD coating and Hastelloy Sensor	316 L Stainless Steel and Hastelloy Sensor
Other Wetted Materials	Delrin, Viton, Hastelloy, 316L Stainless Steel	Delrin, Viton, Hastelloy, 316L Stainless Steel
Direct Read Capability	Yes	Yes

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