

Level1000

Water Level and Temperature Data Logger



The Level1000 is a battery powered, stand alone, submersible water level and temperature recorder. This is an all-in-one compact, portable, easy to use device that will measure and record up to 16,383 measurements. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The Level1000 makes data retrieval quick and easy. Simply plug it into an empty USB port and our user-friendly software does the rest.

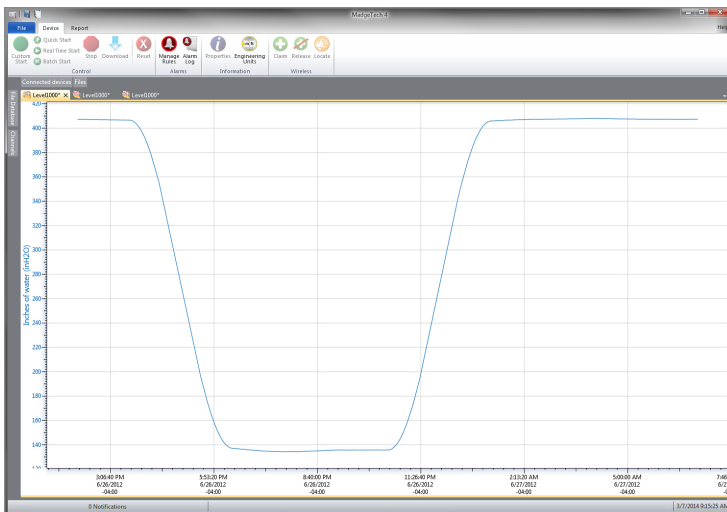
Features

- Resistant to corrosion and chemicals
- Rugged design
- User-friendly
- Reusable
- Submersible up to 100 ft
- Programmable start time
- Powerful software simplifies analysis

Applications

- Water level monitoring
- Environmental studies
- Waste water treatment
- Flood analysis
- Groundwater monitoring
- Irrigation canals
- Lake and wetland studies
- Storm water studies
- Landfill and hazardous site analysis

MadgeTech 4 Software Features



Graph View

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view

Statistics

Export to Excel

Time	Time Zone	Delta
1:13:37 PM	-0400	-00:00:00
1:14:37 PM	-0400	+00:00:00
1:15:37 PM	-0400	+00:00:00
1:16:37 PM	-0400	+00:00:00
1:17:37 PM	-0400	+00:04:00
1:18:37 PM	-0400	+00:05:00
1:19:37 PM	-0400	+00:06:00
1:20:37 PM	-0400	+00:07:00
1:21:37 PM	-0400	+00:08:00
1:22:37 PM	-0400	+00:09:00
1:23:37 PM	-0400	+00:10:00
1:24:37 PM	-0400	+00:11:00
1:25:37 PM	-0400	+00:12:00
1:26:37 PM	-0400	+00:13:00
1:27:37 PM	-0400	+00:14:00
1:28:37 PM	-0400	+00:15:00

Tabular Data View

Automation

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

MEASUREMENT	
Temperature Sensor	Semiconductor
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution	0.1 °C (0.18 °F)
Calibrated Accuracy	±0.5 °C (0 to +50 °C)
Pressure Sensor	Semiconductor strain gauge
Media Compatibility	Must be compatible with 303 stainless steel
Measurement Range	0 ft to 30 ft (fresh water only)
Resolution	0.05. in
Calibrated Accuracy	±8.3 in of water (1.0 in typical at 25 °C)*
Response Time	90% change in 1 ms
Repeatability	±0.5 %FSR; ±0.2% typical
Proof Pressure	90 PSIA

*Please note, the Level1000 does not compensate for barometric pressure changes, therefore these changes are not included in the accuracy specifications.

GENERAL	
Start Modes	Software programmable immediate start Delay start up to six months in advance
Real Time Recording	May be used with PC to monitor and record data in real time
Memory	16,383 readings per channel; 32,766 total readings
Reading Rate	1 reading every 2 seconds up to 1 reading every 12 hours
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6 V lithium battery included; user replaceable
Battery Life	1 year typical at 25 °C
Data Format	Date and time stamped °C, °F, K, °R; PSI, inches, feet, millimeters, centimeters, meters (of water column)
Time Accuracy	±1 minute/month
Computer Interface	USB (interface cable required); 2,400 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 2.03.06 or later Secure Software version 4.1.3.0 or later
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH
Dimensions	5.7 in x 1.25 in dia. (145 mm x 32 mm)
Material	303 stainless steel
Weight	8 oz (220 g)
Approvals	CE

BATTERY WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

Ordering Information

Level1000	PN 900335-00	Water Level and Temperature Recorder
IFC200	PN 900298-00	USB interface cable
TLH-5902	PN 901747-00	Replacement battery for the Level1000