



## LevelLine Water Level Loggers

The LevelLine records highly accurate water level and temperature measurements in groundwater and surface water applications. Housed inside an all titanium body is a ceramic level sensor, temperature sensor, 10-year lithium battery and a versatile datalogger with capacity for 500,000 data points.

The LevelLine Absolute uses a piezoresistive ceramic pressure sensor to provide excellent durability and long-term stability whilst delivering an impressive accuracy of 0.05% FS. A variety of level ranges are available and all of them are temperature compensated across a scale of -20 to 80 deg. C.

The LevelLine can record as much as 10 readings per second to once every 24 hours. Event based logging can be used to respond to a set level or temperature change with the option of scheduling logging which is faster or slower for a defined time frame to maximise memory and battery usage.

### Features

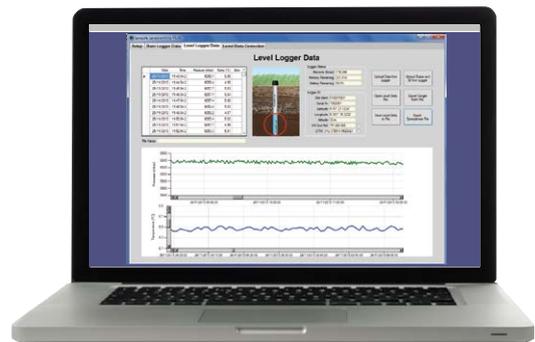
- 0.05% FS accuracy.
- 500,000 data point memory.
- 10 year battery life.
- Replaceable battery.
- Titanium body.
- 5 year warranty.
- Included LevelLink PC Software for basic and advanced data compensation.
- SDI-12, RS485/MODBUS direct out communications.
- 22mm x 186mm.

### Applications

- Groundwater level monitoring, pump tests, slug tests etc.
- Stream, lake and reservoir water level measurement.
- Wetland and flood water monitoring.
- Coastal monitoring.
- Tank level measurement.
- Long term continuous monitoring in boreholes, surface water and seawater applications.

### Leveline Battery and Logging

The LevelLine is set up using the LevelLink PC Software, LevelLine Meter or Quick Deploy Key. A variety of logging types are available these include Linear, Event Based, Schedule, Future Start, Future Stop, Deployed Start and Real Time View.



LevelLink PC Application

### Data Management, Viewing and Export

Data is downloaded into the LevelLink PC application. This intuitive software allows for data to be compensated and then exported. Basic compensation can be carried out by using a LevelLine-Baro file to correct the level data for atmospheric pressure.

Advanced features include, density correction, manual barometric pressure correction, salinity and EC correction, field zero correction, averaging and automatic depth to water corrections. A bulk data correction facility is also available to compensate multiple LevelLine files at once.

Data can be exported in raw or compensated formats into .csv formats for further processing outside of the LevelLink application.



# Leveline Water Level Loggers

## Specifications



		LEVELINE (Abs & Gauge)	LEVELINE - BARO
General	Temperature ranges (non freezing)	Operational: -20-80° C (-4-176° F) Storage: -40-80° C (-40-176° F) Compensated: -20-80° C (-4-176° F)	Operational: -20-80° C (-4-176° F) Storage: -40-80° C (-40-176° F) Compensated: -20-80° C (-4-176° F)
	Diameter	22mm (0.866 in)	22mm (0.866 in)
	Length	186mm (7.32 in)	186mm (7.32 in)
	Weight	150g (5.3oz)	160g (5.6oz)
	Materials	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone
	Output options	Modbus/RS485, SDI-12, Aquaread proprietary	Modbus/RS485, SDI-12, Aquaread proprietary
	Battery type & life	3.6V lithium; up to 10 years (see note 1)	3.6V lithium; up to 10 years (see note 1)
	External power	6 - 24 VDC	6 - 24 VDC
Memory	Size	8.0 MB	2.0 MB
	Data Records	500,000	150,000
	Log types	Linear, Event & User-Selectable Schedule with Future Start, Future Stop, Deploy Start and Real Time View	Linear, Event & User-Selectable Schedule with Future Start, Future Stop, Deploy Start and Real Time View
	Fastest logging rate & Modbus rate	10 per second	1 per minute (logging) 5 per second (Modbus)
	Fastest SDI-12 output rate	1 per second	1 per second
	Real-time clock	Accurate to 1 second/24-hr period (± 6 minutes/year)	Accurate to 1 second/24-hr period (± 6 minutes/year)
Pressure Sensor	Type / Material	Piezoresistive; ceramic	
	Range (Absolute)	10.0m (32.8 ft) 50.0m (164 ft)	20.0m (65.6 ft) 100m (326 ft)
	Range (Gauge)	10.0m (32.8 ft) 50.0m (164 ft)	20.0m (65.6 ft) 100m (326 ft)
	Maximum pressure	Max 2x range, Burst 2.5x range	
	Accuracy (FS) (see note 2)	±0.05% FS	
	Resolution	0.002% FS or 1mm whichever is greater	
	Units of measure	Pressure: mbar (psi, kPa, bar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LevelLink)	
Temperature Sensor	Accuracy Resolution	±0.1° C 0.01° C	±0.1° C 0.01° C
	Output Units	Celsius (fahrenheit available in LevelLink)	

Notes: 1) Dependent on logging rate. 2) Across factory-calibrated pressure and temperature ranges  
Upon request, Levelines can be calibrated for 0-5m range