
LeveLine
Water Level • Temperature • Conductivity • Salinity
Full range now in titanium
LEVELINE
LEVELINE
LEVELINE
LEVELINE
AQUAREAD
water monitoring instruments
LeveLine® - Community Trade Mark Registration No. 011713823
Leveline-CTD® - Community Trade Mark Registration No. 0161873380

LeveLine

Self contained water level and temperature logger with replaceable battery

The LeveLine is a self-contained data-logging device that records water level and temperature continuously during its deployment. It features a highly accurate pressure sensor and a temperature thermistor, which are powered for up to 10 years by an internal 3.6V lithium battery.

Discover LeveLine

Explore the LeveLine's key features:

Set up Options
Use PC or GPS LeveLine Meter
Planned start date / duration
Logging rate
Event trigger levels & rate
GPS deployment coordinates

Corrosion Resistant
Rugged titanium body
for corrosion resistance

Market Leading Internals
500,000 data set logging memory
10 recordings per second
Fastest logging rate

Tough
Delrin Nose Cone

High Accuracy
Highly accurate pressure and temperature sensors
Various depth ratings available up to 100m

Comms
USB cable
SDI-12 / Modbus direct output
QuickDeploy Key to start logger
GPS LeveLine Meter connection

Telemetry available
Discreet telemetry system available for concealed deployments

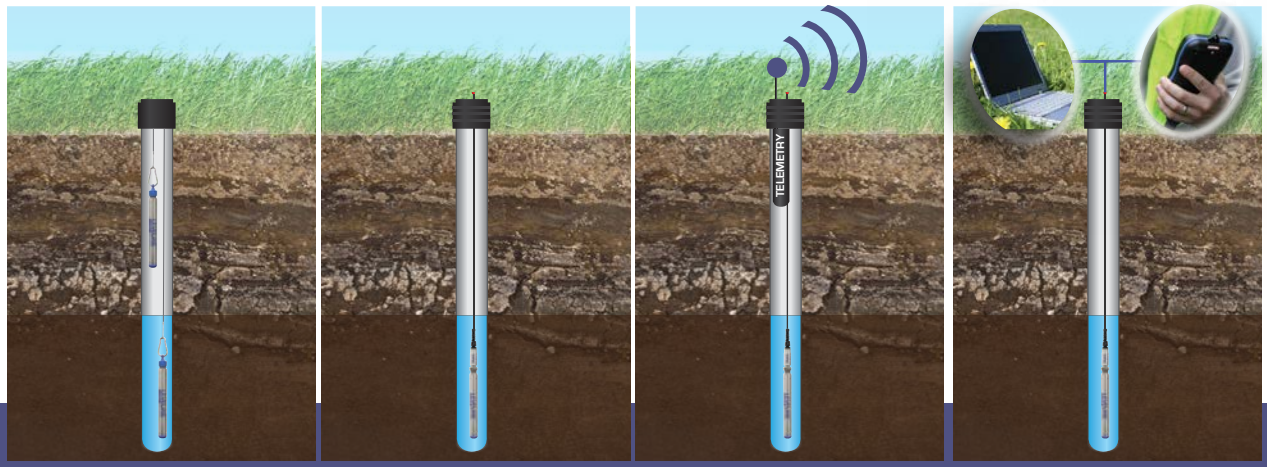
Years of Battery Life
Internal lithium battery for up to 10 years operation
Battery is replaceable when expired
Not enough? Then use external 6-24v power supply from batteries or solar panel

Capture the water level data as quickly as 10 times per second and store up to 500,000 data records on the instrument's built-in memory. All this technology is neatly sealed within a small, corrosion resistant, titanium housing (22 x 186mm) that can be deployed to measure either absolute pressure (ABS, non vented) or gauge pressure (GAUGE, vented) to depths of up to 100m.

See back pages for Sensor Specifications

LeveLine Deployment Examples

ABSOLUTE | GAUGE | TELEMETRY | REALTIME



Specifications

		LEVELINE (Abs & Gauge)	LEVELINE - BARO	LEVELINE- MINI
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)	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)	22mm (0.866 in)
	Length	186mm (7.32 in)	186mm (7.32 in)	87mm (3.43 in)
	Weight	150g (5.3oz)	160g (5.6oz)	120g (4.2oz)
	Materials	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone	Titanium body, Delrin nose cone
	Output options	Modbus/RS485, SDI-12, Aquaread proprietary	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)	N/A
	External power	6 - 24 VDC	6 - 24 VDC	6 - 24 VDC
Memory	Size	8.0 MB	2.0 MB	N/A
	Data Records	500,000	150,000	N/A
	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	N/A
	Fastest logging rate & Modbus rate	10 per second	1 per minute (logging) 5 per second (Modbus)	10 per second (Modbus Rate)
	Fastest SDI-12 output rate	1 per second	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)	N/A
Pressure Sensor	Type / Material	Piezoresistive; ceramic	Piezoresistive; ceramic	Piezoresistive; ceramic
	Range (Absolute)	10.0m (32.8 ft) 20.0m (65.6 ft) 50.0m (164 ft), 100m (326 ft)	0 to 16.7 psi; 0 to 1.15 bar	10.0m (32.8 ft) 20.0m (65.6 ft) 50.0m (164 ft), 100m (326 ft)
	Range (Gauge)	10.0m (32.8 ft) 20.0m (65.6 ft) 50.0m (164 ft), 100m (326 ft)	N/A	10.0m (32.8 ft) 20.0m (65.6 ft) 50.0m (164 ft), 100m (326 ft)
	Maximum pressure	Max 2x range, Burst 2.5x range	Max 2x range, Burst 2.5x range	Max 2x range, Burst 2.5x range
	Accuracy @ 15° C (see note 2)	±0.05% FS	±0.1% FS	±0.05% FS
	Accuracy (FS) (see note 3)	±0.1% FS	±0.2% FS	±0.1% FS
	Resolution	0.002% FS or 1mm whichever is greater	0.1mb	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 LeveLink)	Pressure: mbar (psi, kPa, bar, mbar, mmHg, inHg, cmH2O and inH2O available in LeveLink)	Pressure: mbar (psi, kPa, bar, mmHg, inHg, cmH2O, inH2O, Level: in, ft, mm, cm and m available in LeveLink)
Temperature Sensor	Accuracy Resolution	±0.1° C 0.01° C	±0.1° C 0.01° C	±0.1° C 0.01° C
	Output Units	Celsius (fahrenheit available in LeveLink)	Celsius (fahrenheit available in LeveLink)	Celsius (fahrenheit available in LeveLink)

Notes: 1) Dependent on logging rate. 2) Across factory-calibrated pressure range at a constant temperature. 3) Across factory-calibrated pressure and temperature ranges