



Applications
Groundwater
Surface water
Water quantity
Flood warning
Water quality

All-in-One Level Logger & Telemetry Solution

Reliable data for water level, temperature, and conductivity

Intuitive, wireless local operation using LinkComm software via Bluetooth Low Energy (BLE)

Connection to smart phones, tablets, and PCs operating with Android, iOS, or Windows 10

Insight into water quality with temperature and optional conductivity measurements

Vented pressure probe to compensate for changes in barometric pressure

Reliable long term operation via intelligent power management and a robust ceramic pressure cell

Low maintenance intervals of up to 10 years battery and up to >2 years desiccant functionality

Remote monitoring via cellular communication with integrated modem

Save time by managing less equipment

The ecoLog 1000 is an all-in-one instrument with a water level sensor, logger, and modem built-in. It requires no additional tools for maintenance or battery replacement. Installation and maintenance become easy with no need for additional cables or dongles. This minimizes your total cost of ownership and guarantees you won't spend unnecessary time or energy setting up or relearning your equipment.

Monitor basic water quality parameters

Gain a better understanding of water quality at your site by measuring temperature and conductivity with a rugged and accurate, 4-electrode conductivity measuring cell. This addition enables conductivity derived parameters such as Total Dissolved Solids (TDS) and salinity.





Reduce field visits by eliminating data gaps

The ecoLog 1000 has reliable system up-time and accurate measurements in every data transmission. This wealth of continuous data, sent through either HTTP(S), MQTT(S), FTP(S), or SMS keeps you better informed before field visits, so each future visit is faster and more efficient. Additionally, configure and monitor your data completely remotely with cellular communication.

Connect with variety of devices/software

The logger is simple to operate using just a smart phone or PC via integrated Bluetooth Low Energy (BLE). It integrates with LinkComm software which allows for remote configuration and diagnostics of your station.

Technical Specifications

WATER LEVEL	Measuring range	0 ... 4 m water column / 0 ... 0.4 bar	0 ... 13 ft water column / 0 ... 5.8 psi
		0 ... 10 m water column / 0 ... 1 bar	0 ... 33 ft water column / 0 ... 14.5 psi
		0 ... 20 m water column / 0 ... 2 bar	0 ... 66 ft water column / 0 ... 29 psi
		0 ... 40 m water column / 0 ... 4 bar	0 ... 131 ft water column / 0 ... 58 psi
		0 ... 100 m water column / 0 ... 10 bar	0 ... 328 ft water column / 0 ... 145 psi
	Resolution	0.001 m / 0.1 cm / 0.0001 bar	0.01 ft / 0.1 inch / 0.001 psi
	Accuracy (linearity + hysteresis)	± 0.05 % full scale	
	Long-term stability (linearity + hysteresis)	± 0.1 %/a full scale	
	Units	m / cm / bar	ft / inch / psi
	Pressure sensor	Ceramic / temperature compensated	
Temperature-compensated operating range	-5 °C (ice-free) ... +45 °C	+23 °F (ice-free) ... +113 °F	
TEMPERATURE	Measuring range	-25 °C ... +70 °C	-13 °F ... +158 °F
	Resolution	0.01 °C	0.02 °F
	Accuracy	± 0.1 °C	± 0.2 °F
	Units	°C	°F
CONDUCTIVITY (OPTIONAL)	Measuring range	5 ... 100 000 µS/cm	
	Calibrated range	+5 °C ... 45 °C	+41 °F ... +113 °F
	Resolution	1 µS/cm (5 ... 2000 µS/cm) - 0.01 mS/cm (0.10 ... 100.00 mS/cm)	
	Accuracy	±0.5 % of measured value (at least ± 1 µS/cm) (5 ... 2000 µS/cm) ±1.5 % of measured value (at least ±0.01 mS/cm) (0.10 ... 100.00 mS/cm)	
	Units	mS/cm · µS/cm	
POWER	Power supply	3.6 V / 26 Ah - Lithium power pack with connector	
	Battery life time - configuration depending	> 10 years @ average temperature of 20 °C/68 °F, 1 hour sampling and 1 transmission per day (> 5 years with conductivity variant)	
RTC CLOCK	Accuracy	± 26 s / month (at 25 °C) / < ± 3 s using SNTP	± 26 s / month (at 77 °F) / < ± 3 s using SNTP
COMMUNICATION	Cellular 4G/2G (EU)	LTE Cat-1; B3 (1800 MHz), B8 (900 MHz), B20 (800 MHz); GSM, GPRS, EDGE; 900 MHz, 1800 MHz	
	Cellular LTE-M (Cat-M1; Global)	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66	
	Local communication	Bluetooth Low Energy (BLE) 5.0 - up to 10 m (free line of sight)	
MEASUREMENT	Measured values	Water pressure & temperature	RSSI / Signal strength
		Conductivity (optional)	PBAT / Power consumption battery
		Supply voltage	Logger Humidity
	Derived values	Water level / depth to water	Salinity & Total Dissolved Solids (optional)
	Sample/storage interval	5 s / 10 s* ... 24 h	
DATA TRANSMISSION	Interval	1 min ... 1/week, 15 min ... 1/week for SMS	
	IP COM	FTP, FTPS, HTTP, HTTPS (TLS 1.2), MQTT, MQTTS	
DATA MEMORY	Measurement memory	28 MB (approx. 1,000,000 values)	
ENVIRONMENTAL	Temperature range, operating	-30 °C ... +85 °C	-22 °F ... +185 °F
	Temperature range, storage	-40 °C ... +85 °C	-40 °F ... +185 °F
	Humidity	5% ... 95 % (non-condensing)	
	IP rating logger unit	IP 67 (flood-proof up to 1 week / 1 m water column)	
	IP rating pressure probe	IP68	
DIMENSIONS	Logger unit	LxD: 525 x 50 mm (2")	LxD: 20.7 x 2.0 inch
	Pressure probe	LxD: 195 x 22 mm (<1"), 317 mm x 22 mm*	LxD: 7.7 x 0.9 inch, 12.5 x 0.9 in*
	System length	0 ... 200 m (> 200 m on request)	0 ... 656 ft (> 656 ft on request)
WEIGHT	Logger unit incl. battery pack	~ 900 g	~ 31.7 oz
	Pressure probe	~ 300 g, 420 g*	~ 10 oz, 13.8 oz*
	Pressure probe cable	~ 42 g/m, 82 g/m*	~ 0.45 oz/ft, 0.9 oz/ft*
MATERIAL	Pressure probe housing	Stainless steel 1.4539 (904 L)	
	Logger housing	Aluminum / PA-GF	
	Cable jacket	PUR	
REGULATORY	FCC / IC / CE / ACMA	   	
	PTCRB	According to NAPRD03	
	Provider certifications	Verizon Open Development Certification, AT&T IoT Device Certification	

*Device variant with integrated conductivity sensor
Please check website for country availability.