



AquaLogger

The AquaLogger is a remote logging device designed to be left on-site for medium length deployments. The battery powered unit features a large built in memory and an LED indicator. Every AquaLogger comes complete with LoggerLink PC software and USB data cable so that you can set up your logging regime at your desk.

Build

There are two types of Aqualogger available each designed to be used with specific probes:



AquaLogger-2000:

for use with the AquaPlus, AP-LITE, AP-700, AP-800 and AP-2000 probes.

AquaLogger-7000:

for use with the AP-5000, AP-6000 and AP-7000 Aquaprobes.

Each Aqualogger features an AquaConn connector to allow connection to the Aquaprobe and its extension cable.

The Aqualogger-2000 now utilises lithium batteries for extended life. The Aqualogger-7000 is used with standard C cell alkaline batteries.

LoggerLink Features

- Simple data download
- Export data as a full report or save file to your PC
- Set up the logging regime and event triggers
- Upload settings back to the AquaLogger
- Check available memory and battery life







Estimated battery life (same for both)

Logging Rate	Estmated battery life
Every Minute	2 Weeks
Every 5 Minutes	2.5 Months
Every 10 minutes	4 Months
Every 15 Minutes	6 Months
Eveery 30 minutes	1 Year
Every Hour	2 Years

AquaLogger Mechanical Specification

Dimensions (L x Dia)	AquaLogger 2000: 44mm x 250mm AquaLogger 7000: 77mm x 250mm
Weight	AquaLogger 2000: 420g AquaLogger 7000: 1500g
Data Memory	15,000 full sets inc GLP data
Atmospheric Pressure	150mb - 1150mb Accuracy +/- 1mb
Interface	USB (cable provided)
Power Supply	AquaLogger 2000: 2x Lithium C cells AquaLogger 7000: 6x Lith C cells + 2x AAA cells
Battery Life	Dependent upon logging rate and temperature.
Operating Temperature	-20°C to +70°C
Protection Class	IP67

The AquaLoggter can be used with Aquaprobes to measure the following parameters



0 - 500.0% / 0 - 50.00 mg/l Resolution 0.1% / 0.01mg/L Oxygen Accuracy 0 - 200%: ± 1% of reading. 200% - 500%: ± 10% Range ± 0 - 60.00 m (60m max displayed depth, max probe immersion 100m) Depth AP-2000/ Resolution 1cm Standard Parameters AP-5000 Accuracy Range ± 0 - 99.99 m Depth Resolution 1cm AP-7000 Accuracy ± 0.2% FS 0 - 200 mS/cm (0 - 200,000 µS/cm) Range Conductivity e scales: 0 - 9999 μS/cm, 10.00 - 99.99 mS/cm, 100.0 - 200.0mS/c Resolution (EC) Accuracy ± 1% of reading Range 0 - 100,000 mg/L (ppm) TDS* Resolution 2 Auto-range scales: 0 - 9999mg/L, 10.00 - 100.00g/L Accuracy ± 1% of reading Range 5 Ω • cm - 1 MΩ • cm 2 Auto-range scales: 5 - 9999 Ω • cm, 10.0 - 1000.0 KΩ • cm Resistivity* Accuracy ± 1% of reading Range 70 PSU / 0 - 70.00 ppt (g/Kg) Resolution 0.01 PSU / 0.01 ppt Salinity* ± 1% of reading Accuracy Range Seawater 0 - 50 ot Specific Resolution 0.1 ot Gravity* Accuracy ± 1.0 ot Range 0 - 14 pH / ± 625mV Resolution 0.01 pH / ± 0.1mV Accuracy ± 0.1 pH / ± 5mV Range ± 2000mV ORP Resolution 0.1mV Accuracy ± 5mV Range +50°C (23°F - 122°F) Temperature Resolution 0.01°C / 0.1°F (non freezing) **Accuracy** ± 0.1 °C

^{*} Readings calculated from EC and temperature electrode values

	Ammonium	Range	0 – 9,000mg/L (ppm)
		Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 – 8,999.9 mg/L
		Accuracy	± 10% of reading or 2ppm (whichever is greater)
	Ammonia [†] Chloride	Range	0 - 9,000mg/L (ppm)
		Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 - 8,999.9 mg/L
		Accuracy	± 10% of reading or 2ppm (whichever is greater)
		Range	0 - 20,000mg/L (ppm)
111		Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 - 19,999.9 mg/L
60		Accuracy	± 10% of reading or 2ppm (whichever is greater)
ISE	Fluoride	Range	0 – 1,000mg/L (ppm)
		Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 - 999.9 mg/L
		Accuracy	± 10% of reading or 2ppm (whichever is greater)
		Range	0 - 30,000mg/L (ppm)
	Nitrate	Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 – 29,999.9 mg/L
		Accuracy	± 10% of reading or 2ppm (whichever is greater)
	Calcium	Range	0 – 2,000mg/L (ppm)
		Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 - 1,999.9 mg/L
		Accuracy	± 10% of reading or 2ppm (whichever is greater)

[†] Ammonium electrode required. Readings calculated from ammonium, pH and temperature values.

	Turbidity	Range	0 – 4000 NTU
		Resolution	2 Auto-range scales: 0.0 - 99.9 NTU, 100 - 3000 NTU
		Accuracy	± 5% of auto-ranged scale
		Range	0 – 500.0 μg/L (ppb)
	Chlorophyll	Resolution	2 Auto-range scales: 0.00 - 99.99 μg/L, 100.0 - 500.0 μg/L
		Repeatability	± 5% of reading
		Range	0 - 300,000 cells/mL
	Phycocyanin (freshwater BGA)	Resolution	1 cell/mL
Optical	(II doint doi: Dory)	Repeatability	± 10% of reading
$\mathbf{\sigma}$	Phycerythrin	Range	200,000 cells/mL
\mathcal{C}	(marine BGA)	Resolution	1 cell/mL
		Repeatability	± 10% of reading
₩.	Rhodamine WT Dye	Range	0 – 500 μg/L (ppb)
<u>O</u> _		Resolution	2 Auto-range scales: 0.00 - 99.99 μg/L, 100.0 - 500.0 μg/L
	111. 2,0	Accuracy	± 5% of reading
	Fluorescein	Range	0 – 500 μg/L (ppb)
	Dye	Resolution	2 Auto-range scales: 0.00 - 99.99 μg/L, 100.0 - 500.0 μg/L
	Буе	Accuracy	± 5% of reading
		Range	0 - 10,000 μg/L (ppb) (Napthalene)
	Refined Oil	Resolution	0.1 μg/L
		Repeatability	± 10% of reading
		Range	0 – 20,000 μg/L (ppb) (Quinine Sulphate)
	CDOM / FDOM	Resolution	2 Auto-range scales: 0.0 – 9,999.9 μg/L, 10,000 – 20,000 μg/L
		Repeatability	± 10% of reading

The accuracy figures quoted throughout this document represent the equipment's capability at the calibration points at 25°C. These figures do not take into account errors introduced by variations in the accuracy of calibration solutions and errors beyond the control of the manufacturer that may be introduced by environmental conditions in the field. Accuracy in the field is also dependent upon full calibration and minimal time between calibration and use.