



# 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)

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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

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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	



#### 0 – 500.0% / 0 – 50.00 mg/L Dissolved Resolution 0.1% / 0.01mg/L Oxygen 0 - 200%: ± 1% of reading, 200% - 500%: ± 10% Depth Range ± 0 - 60,00 m (60m max displayed depth, max probe immersion 100m) AP-2000/ Resolution 1cm Standard Parameters AP-5000 ± 0.5% FS Accuracy Range ± 0 - 99,99 m Depth AP-7000 Resolution 1cm Accuracy ± 0,2% FS 0 - 200 mS/cm (0 - 200,000 µS/cm) Range Conductivity Resolution ge scales: 0 – 9999 µS/cm, 10.00 – 99.99 mS/cm, 100.0 – 200.0mS/cm (EC) Accuracy ± 1% of reading 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 Resistivity\* Resolution 2 Auto-range scales: 5 – 9999 Ω • cm, 10.0 – 1000.0 KΩ • cm Accuracy ± 1% of reading Range - 70 PSU / 0 – 70,00 ppt (g/Kg) Salinity\* 0.01 PSU / 0.01 ppt Resolution Accuracy ± 1% of reading Seawater Range 0 - 50 ot Specific Resolution 0.1 ot Gravity\* Accuracy Range 0 – 14 pH / ± 625mV Resolution $0.01 \text{ pH} / \pm 0.1 \text{mV}$ Accuracy ± 0.1 pH / ± 5mV Range ± 2000mV ORP Resolution 0.1mV Accuracy ± 5mV Range 5°C – +50°C (23°F – 122°F) Resolution 0.01°C / 0.1°F (non freezing) Accuracy ± 0,5 °C

<sup>\*</sup> 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 <sup>†</sup>	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)
Chloride	Resolution	2 Auto-range scales: 0.00 - 99.99 mg/L, 100.0 – 19,999.9 mg/L
	Accuracy	± 10% of reading or 2ppm (whichever is greater)
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)
	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)
	Ammonia <sup>†</sup> Chloride Fluoride Nitrate	Ammonium  Resolution Accuracy Range Resolution Accuracy Range Chloride Resolution Accuracy Range Resolution Accuracy

<sup>†</sup> Ammonium electrode required. Readings calculated from ammonium, pH and temperature values.

		Range	0 – 3000 NTU
	Turbidity	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
	Phycocyanin (freshwater BGA)	Range	0 - 300,000 cells/mL
		Resolution	1 cell/mL
Optical	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Repeatability	± 10% of reading
បា	Phycerythrin	Range	200,000 cells/mL
(i)	(marine BGA)	Resolution	1 cell/mL
≒	(marmo zorij	Repeatability	± 10% of reading
ب	Rhodamine WT Dye	Range	0 – 500 μg/L (ppb)
$\Box$		Resolution	2 Auto-range scales: 0,00 - 99,99 μg/L, 100,0 - 500,0 μg/L
	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
	Dye	Accuracy	± 5% of reading
		Range	0 – 10,000 μg/L (ppb) (Napthalene)
	Refined Oil	Resolution	0.1 μg/L
		Repeatability	± 10% of reading
	CDOM / FDOM	Range	0 – 20,000 μg/L (ppb) (Quinine Sulphate)
		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.