AQUALOGGE

# 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

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water monitoring instruments

- Set up the logging regime and event triggers
- Upload settings back to the AquaLogger
- Check available memory and battery life





#### 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

#### 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	

# The AquaLogger can be used with Aquaprobes to measure the following parameters



	Dissolved	Range	0 - 500.0% / 0 - 50.00 mg/L
(0	Oxygen	Resolution	0.1% / 0.01mg/L
	enygen.	Accuracy	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
Parameters	AP-5000	Accuracy	± 0.5% FS
	Depth	Range	± 0 – 99.99 m
Ψ	AP-7000	Resolution	1cm
L.		Accuracy	± 0.2% FS
0	Conductivity	Range	0 - 200 mS/cm (0 - 200,000 μS/cm)
Ē	(EC)	Resolution	3 Auto-range scales: Ο – 9999 μS/cm, 10.00 – 99.99 mS/cm, 100.0 – 200.0mS/cm
	()	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
σ		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	0 – 70 PSU / 0 – 70.00 ppt (g/Kg)
ų p	Salinity*	Resolution	0.01 PSU / 0.01 ppt
		Accuracy	± 1% of reading
σ	Seawater Specific Gravity*	Range	0 – 50 ot
10		Resolution	0.1 ot
2		Accuracy	± 1.0 ot
		Range	0 - 14 pH / ± 625mV
σ	pH	Resolution	0.01 pH / ± 0.1mV
<b>د</b>		Accuracy	± 0.1 pH / ± 5mV
Standard		Range	± 2000mV
	ORP	Resolution	0.1mV
		Accuracy	± 5mV
	Temperature (non freezing)	Range	-5°C – +50°C (23°F – 122°F)
		Resolution	0.01°C / 0.1°F
		Accuracy	± 0.5 °C
lings calculat	ed from EC and temp	erature 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)
		Range	0 – 9,000mg/L (ppm)
	<b>A</b> mmonia <sup>†</sup>	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
SE		Accuracy	± 10% of reading or 2ppm (whichever is greater)
U	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)
	Nitrate	Range	0 – 30,000mg/L (ppm)
		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.

		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
		Range	0 - 300,000 cells/mL
	Phycocyanin (freshwater BGA)	Resolution	1 cell/mL
	(in contration borry)	Repeatability	± 10% of reading
Dptical	Phycerythrin	Range	200,000 cells/mL
0	(marine BGA)	Resolution	1 cell/mL
H	(	Repeatability	± 10% of reading
2	Bhodamine	Range	0 – 500 µg/L (ppb)
	WT Dye	Resolution	2 Auto-range scales: 0.00 - 99.99 µg/L, 100.0 - 500.0 µg/L
		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
		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.

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