

AP-700/800

Basic multiparameter water quality probe

The AP-700 and AP-800 packages represent the essentials in basic water quality monitoring. Offered as complete packages you are provided with everything you need to get testing water. Packages include an Aquaprobe, a GPS Aquameter, a 3 meter cable, accessories and some RapidCal calibration solution all housed in a neat carry case for easy storage and transport.

Build

All Aquaprobes are made with the same marine grade aluminium, finished in black with hard anodising for excellent corrosion and biofouling resistance. The use of metal, as opposed to plastic, gives our products their characteristic weight and high quality look and feel. The AP-700 and AP-800 probes come with a pre-fitted 3m cable.

Sensors

The AP-700 comes with all of the common water quality testing sensors pre fitted to the probe:

pH • ORP • Conductivity • TDS • SSG • Resistivity • Salinity
• Dissolved Oxygen • Temperature

The AP-800 comes with an optical sensor port pre-fitted with a Turbidity sensor:

pH • ORP • Conductivity • TDS • SSG • Resistivity • Salinity
• Dissolved Oxygen • Turbidity • Temperature

Galvanic DO



Both the AP-700 and AP-800 feature our ruggedised galvanic DO sensor. This solid zinc electrode tip can easily be cleaned and is designed to last for many years.

Upgrades available at time of order

Both the AP-700 and AP-800 can have the DO sensor upgraded to our optical dissolved oxygen sensor. Both probes can also have a depth sensor fitted at time of order.



AP-700 with sleeve removed

Exchange the Turbidity sensor?

As the turbidity sensor is mounted in one of our sensor ports you can exchange this sensor for any of our other optical sensors, at any time.

Packages available



The AP-700 and AP-800 probes are available as complete packages. Included in the package is our GPS Aquameter, a bottle of Rapidcal, pH storage solution, batteries and other accessories.

Extension cables

Our packages come complete with a 3m cable. If you need additional length we have 10m, 20m and 30m length options. Custom lengths are also available on request.



100m cable on a reel.

All cables 20m and over come on a winding reel making them much easier to operate, especially when profiling.

GPS Aquameter

The GPS Aquameter is a hand held device with a display for live data viewing and data recording. As one of our flagship products it is included in every Aquaprobe package. It is designed to be very simple to use and to make your job easier in the field.



All currently measured data can be recorded by pressing the M+ button, as you record your dataset the Aquameter uses its built in GPS receiver to record the precise location that the measurements were taken from, with data being viewable in Google Earth.

AquaLink

Our AquaLink software is free to download from our website's download section. Use this software to download recorded data from your Aquameter, for analysis, reporting and google map creation.

AquaLink Features

- Simple data download via button
- Tick and un-tick datasets to customise your outputs
- Output a text report for all highlighted data
- Output data as a CSV file that you can open in Excel
- Output data as a .KML file for use in Google Earth



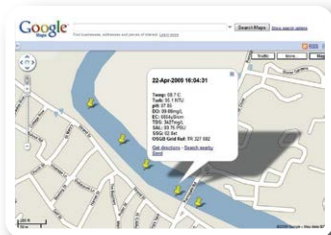
AquaLink and Google Earth screen shots



Specifications

Protection Class	IP68 (permanent immersion)
Immersion Depth	Min 75mm. Max 50m *
Operating Temperature	-5 °C - +70 °C
Dimensions (L x Dia)	290mm x 42mm
Weight	700g

* 50m submersion for period of 12 hours, 10m submersion suitable for permanent deployment.



GPS data sets viewed in Google Maps and Google Earth

Standard Parameters	Parameter	Range	0 - 500.0% / 0 - 50.00 mg/L	
		Dissolved Oxygen	Resolution	0.1% / 0.01 mg/L
		Accuracy	0 - 200%: ± 1% of reading, 200% - 500%: ± 10%	
Depth AP-2000/ AP-5000	Range	± 0 - 60.00 m (60m max displayed depth, max probe immersion 100m)		
	Resolution	1 cm		
	Accuracy	± 0.5% FS		
Depth AP-7000	Range	± 0 - 99.99 m		
	Resolution	1 cm		
	Accuracy	± 0.2% FS		
Conductivity (EC)	Range	0 - 200 mS/cm (0 - 200,000 µS/cm)		
	Resolution	3 Auto-range scales: 0 - 9999 µS/cm, 10.00 - 99.99 mS/cm, 100.0 - 200.0mS/cm		
	Accuracy	± 1% of reading		
TDS*	Range	0 - 100,000 mg/L (ppm)		
	Resolution	2 Auto-range scales: 0 - 9999mg/L, 10.00 - 100.00g/L		
	Accuracy	± 1% of reading		
Resistivity*	Range	5 Ω • cm - 1 MΩ • cm		
	Resolution	2 Auto-range scales: 5 - 9999 Ω • cm, 10.0 - 1000.0 KΩ • cm		
	Accuracy	± 1% of reading		
Salinity*	Range	0 - 70 PSU / 0 - 70.00 ppt (g/Kg)		
	Resolution	0.01 PSU / 0.01 ppt		
	Accuracy	± 1% of reading		
Seawater Specific Gravity*	Range	0 - 50 st		
	Resolution	0.1 st		
	Accuracy	± 1.0 st		
pH	Range	0 - 14 pH / ± 625mV		
	Resolution	0.01 pH / ± 0.1mV		
	Accuracy	± 0.1 pH / ± 5mV		
ORP	Range	± 2000mV		
	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	± 0.1 °C		

* Readings calculated from EC and temperature electrode values

ISE	Parameter	Range	0 - 9,000mg/L (ppm)	
		Ammonium	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†	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)		
Chloride	Range	0 - 20,000mg/L (ppm)		
	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)		
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.

Optical	Parameter	Range	0 - 4000 NTU	
		Turbidity	Resolution	2 Auto-range scales: 0.0 - 99.9 NTU, 100 - 4000 NTU
		Accuracy	± 5% of auto-ranged scale	
Chlorophyll	Range	0 - 500.0 µg/L (ppb)		
	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		
	Repeatability	± 10% of reading		
Phycerythrin (marine BGA)	Range	200,000 cells/mL		
	Resolution	1 cell/mL		
	Repeatability	± 10% of reading		
Rhodamine WT Dye	Range	0 - 500 µg/L (ppb)		
	Resolution	2 Auto-range scales: 0.00 - 99.99 µg/L, 100.0 - 500.0 µg/L		
	Accuracy	± 5% of reading		
Fluorescein Dye	Range	0 - 500 µg/L (ppb)		
	Resolution	2 Auto-range scales: 0.00 - 99.99 µg/L, 100.0 - 500.0 µg/L		
	Accuracy	± 5% of reading		
Refined Oil	Range	0 - 10,000 µg/L (ppb) (Naphthalene)		
	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.