

The **AQUAREAD WATER QUALITY RANGE**



CONTENTS

Single Parameter Packages

Entry Level Packages

Advanced Packages



- AquaPlus Package
- AP-LITE Package

These packages contain smaller probes offering single parameter water quality monitoring.

- AP-700 Package
- AP-800 Package

These are entry level multiparameter water quality monitoring packages. The probes come fitted with all of the regular water monitoring sensors to provide basic water quality data.

- AP-2000/2000-D Package
- AP-5000 Package

These are advanced multiparameter water quality monitoring packages. The probes come fitted with all of the regular water monitoring sensors and also offer the option to install additional, more advanced sensors.

Long Term Deployment

Aquaread Software

Sensor Specifications





• Full specifications on all sensors Aquaread offers.

- 7000 Package
- AquaLogger
- BlackBox

When you need to deploy your probes for longer durations the AP-7000 uses a self cleaning system to help keep the sensors cleaner for longer. Various data logging options are available.

- AquaLink
- OxiLink
- LoggerLink
- SondeLink

All Aquaread software is free to download from www.aquaread.com.



AquaPlus Package

optical dissolved oxygen • conductivity • TDS
 • SSG • resistivity • salinity • temperature

Optical Dissolved oxygen water quality monitoring package

Combined optical dissolved oxygen, conductivity and temperature sensor for portable field use. Package comes complete with 3m cable, GPS meter and carry case

Why Optical?

Traditionally, DO measurement in portable field equipment has been done using membrane covered detectors known as Clark Cells. This type of cell suffers from problems including membrane fouling, calibration instability and worst of all, oxygen consumption. During measurement, a Clark Cell will consume oxygen making it necessary to have a constant flow of water over the cell.

Optical technology eliminates all these problems allowing high precision, membrane-free, long-term stability along with infrequent calibration and immunity to fouling by sulphides and other gases.

The Aquaread AquaPlus is the only Optical DO system that measures salinity directly. This allows for automatic salinity compensation giving you the highest accuracy in any type of water.

The Tech Behind AquaPlus

The Aquaread AquaPlus works on the principle of Dynamic Luminescence Quenching. A gas-permeable material known as a luminophore is excited with short bursts of blue light, which causes molecules in the luminophore to emit red photons. By measuring the delay of the returned red photons with respect to the blue excitation, the level of dissolved oxygen present can be determined.

AquaPlus Mechanical Specification

Protection Class	IP68 (permanent immersion)	
Immersion Depth	Min 75mm. Max 100m**	
Operating Temperature	-5°C-+70°C	
Dimensions (L x Dia)	250mm x 24mm	
Weight	400g	

AquaPlus with the sleeve removed reveals the combined dissolved oxygen, conductivity & temperature sensors.

The end cap is replaceable however you can expect more than 2 years life from one cap





AP-LITE Aquaprobe Package

Choose one from eight different optical sensors for advanced single parameter monitoring

Single parameter water quality monitoring package

Simple, single parameter monitoring
with the versatile, portable
AP-LITE system

AP-LITE

The AP-LITE is a simple probe with a single optical socket. This socket is able to house any of our optical electrodes, including turbidity and chlorophyll. A temperature sensor is also included on the probe. The AP-LITE package includes our rugged 3m cable, our GPS Aquameter, a range of accessories and a rugged carry case.



The AP-LITE is commonly used with our sapphire lensed turbidity sensor, chlorophyll sensor or blue-green algae sensors. Whilst the package includes an Aquameter the AP-LITE can also be used with one of our AquaLoggers for unmanned turbidity, chlorophyll or blue-green algae monitoring.



Screw in sensors make it easy to install the various sensors available

AP-LITE Mechanical Specification

Protection Class	IP68 (permanent immersion)
Immersion Depth	Min 75mm. Max 100m**
Operating Temperature	-5°C-+70°C
Dimensions (L x Dia)	250mm x 24mm
Weight	400g



Choose from a range of optical sensors for use in the AP-LITE, see the full range in the specifications section

^{* * 100}m submersion for period of 12 hours, 30m submersion suitable for permanent deployment.



AP-700 / 800 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity • dissolved oxygen (DO) • temperature • turbidity

The cost effective, complete water quality monitoring package

Affordable multiparameter water quality testing packages that cover all the basics

AP-700 vs 800

The AP-700

pH • ORP • conductivity • TDS

SSG • Res • salinity

• dissolved oxygen • temperature

The AP-800

pH • ORP • conductivity • TDS • SSG

• Res • salinity • dissolved oxygen

• temperature • TURBIDITY

See back pages for Sensor Specifications

"The AP-700 and the AP-800 Aquaprobes have a very similar build to the more advanced AP-2000, the fitted sensors even have the same high accuracy"

These packages are ideal if you are new to water quality monitoring. They will provide you with measurements for all of the commonly monitored parameters.

Both Aquaprobes come fitted with pH/ORP sensor, a conductivity sensor a dissolved oxygen sensor and a temperature sensor. The AP-800 also features our sapphire lensed turbidity sensor.

A 3m cable comes hard wired to the probe, extension cables are available if longer lengths are required; 10, 20 and 30m as standard.

Aquaprobe Facts

- Every sensor on the 700/800 Aquaprobe is replaceable, pH/ORP sensors are user replaceable whereas the conductivity and dissolved oxygen sensors are factory replaceable
- Both the AP-700 and AP-800 can be supplied with optical DO and depth sensors on request
- The turbidity sensor on the AP-800 can be replaced with any of our optical or ISE sensors



AP-700 / 800 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• dissolved oxygen (DO) • temperature • turbidity

The cost effective, complete water quality monitoring package

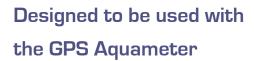
AP-700 with the sleeve removed reveals the pH/ORP sensor,

the conductivity/temperature sensor and the

dissolved oxygen sensor

Improved rugged galvanic DO sensor

Both the AP-700 and AP-800 feature the same new rugged DO sensor. The sensor tip is made from a solid zinc block meaning you can easily polish and clean the sensor to extend its life



Both Packages come with the GPS Aquameter for data collection, live readings and sensor calibration



AP-700/800 both feature a newly designed rugged galvanic DO sensor tip.

Specification

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

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



AP-2000 / AP-2000-D Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Measures more parameters than any other 2" diameter multiparameter probe

Take your portable water quality monitoring to the next level by using the advanced AP-2000 multiparameter probe

AP-2000 / AP-2000-D

The AP-2000 comes pre-loaded with a selection of sensors:

pH • ORP • conductivity • TDS • SSG • Res • salinity
• optical dissolved oxygen • temperature • depth (AP-2000-D Only)

See back pages for Sensor Specifications

Package comes complete with Aquaprobe, GPS Aquameter, 3m cable, rugged case and accessories. Various cable lengths are available;
10. 20 and 30m as standard.

There are an additional 2 ports allowing you to add more:

Aux port 1 can be fitted with either an optical sensor or an ion selective sensor (ISE)

Aux port 2 can be fitted with only an ISE sensor



Ammonium / Ammonia,

Chloride.

Nitrate,

Fluoride,

Calcium.

Optical Electrode Options:

Turbidity,

Chlorophyll,

Blue Green Algae,

Rhodamine,

Fluorescein,

Refined Oil,

CDOM / FDOM.

Aquaprobe Facts

- The IP68 rated Aquaprobe is constructed of marine grade aluminium and is designed for use in fresh, marine and waste-water applications.
- Its metal construction and weight reflect the superior build quality of the instrument.



AP-2000 / AP-2000-D Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Measures more parameters than any other 2" diameter multiparameter probe

GPS Aquameter

Every Aquaprobe package comes with a GPS Aquameter for live readings, automatic data recording and probe calibration



"Record the location of every data set using the GPS Aquameter."



3m Cable with AquaConn Connectors

The AP-2000 is fitted with our robust AquaConn metal connectors, each package comes with a 3m cable with AquaConn connectors at each end and Kevlar strands running the length of the cable for extra tensile strength

Flowcell available for every Aquaprobe

Every water quality testing probe has its own flowcell allowing you to bring sample water straight to the probe. This is ideal for ground water monitoring and some process applications



Optical Dissolved Oxygen (DO) Sensor

The AP-2000 has a factory installed and fully calibrated optical DO sensor. The sensor requires much less maintenance than the galvanic version, gives more stable readings and requires cap changes only once every 2 years



Protection Class	IP68 (permanent immersion)
Immersion Depth	Min 75mm. Max 100m*
Operating Temperature	-5°C-+70°C
Dimensions (L x Dia)	290mm x 42mm
Weight	700g

^{*100}m submersion for period of 12 hours, 30m submersion suitable for permanent deployment, depth measurement displayed up to 60m on Aquameter.



AP-5000 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Add even more sensors to your portable water quality monitoring package

Maximise your water quality data collection using the extra sensor ports of the portable AP-5000 Aquaprobe

AP-5000 Package

The AP-5000 comes pre-loaded with a selection of sensors:

pH • ORP • conductivity • TDS • SSG • Res • salinity

• optical dissolved oxygen • temperature • depth

See back pages for Sensor Specifications

Package comes complete with Aquaprobe, GPS Aquameter, 3m cable, rugged case and accessories. Various cable lengths are available;
10, 20 and 30m as standard.

There are an additional 4 ports allowing you to add more:



ISE Electrode Options:

Ammonium.

Ammonia,

Chloride,

Nitrate.

Fluoride.

Calcium.

Optical Electrode Options:

Turbidity,

Chlorophyll,

Blue Green Algae,

Rhodamine.

Fluorescein,

Refined Oil,

CDOM / FDOM.

Aquaprobe Facts

- All Aquaprobes are completely filled with resin protecting the circuitry and processors within the probe. The resin also make the probe completely water tight ensuring no leaks even at depth.
- The weight of the Aquaprobe means no external weights are required to allow the probe to drop below the surface.



AP-5000 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Add even more sensors to your portable water quality monitoring package

AP-5000 Package Contents

Full range of accessories in every package

Every Aquaprobe package comes with a range of relevant accessories including a 3m cable, calibration vessels, USB cable to connect the GPS Aquameter to your PC, RapidCal calibration solution and batteries



AP-5000 can house more than one optical sensor

The AP-5000 has one major advantage over the AP-2000, it can house more than one optical sensor in it's unrestricted Aux ports. Many applications require both turbidity and chlorophyll

monitoring at the same time, this is made possible using the AP-5000. Seen to the left is the AP-5000 fully loaded with 2 ISE and 2 optical sensors connected



With all of the sensors removed, in the image to the right, the depth sensor hole can be seen in the centre of the probe body



AP-5000 Mechanical Specification

Protection Class	IP68 (permanent immersion)
Immersion Depth	Min 75mm. Max 100m*
Operating Temperature	-5°C-+70°C
Dimensions (L x Dia)	340mm x 55mm
Weight	950g

^{*100}m submersion for period of 12 hours, 30m submersion suitable for permanent deployment, depth measurement displayed up to 60m on Aquameter.

Long to

AP-7000 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Long term monitoring made easy with the AP-7000's effective self cleaning system

Record up to 17 water quality parameters over long periods of unmanned monitoring using the AP-7000

AP-7000 Package

The AP-7000 comes pre-loaded with a selection of sensors:

pH • ORP • conductivity • TDS • SSG • Res • salinity • optical dissolved oxygen • temperature • depth

See back pages for Sensor Specifications

Package comes complete with Aquaprobe, GPS Aquameter, 3m cable and accessories. Various cable lengths are available;

10, 20 and 30m as standard

There are an additional 6 ports allowing you to add much more:



All 6 Aux ports can be fitted with either an optical sensor or an ISE from the list below

ISE Electrode Options:

Ammonium / Ammonia,
Chloride,
Nitrate,
Fluoride,
Calcium.

Optical Electrode Options:

Turbidity,
Chlorophyll,
Blue Green Algae,
Rhodamine,
Fluorescein,
Refined Oil,
CDOM / FDOM.

Aquaprobe PC KIT available

You are now able to connect your Aquaprobe direct to your PC Via the Aquaprobe PC-KIT's USB interface. Using the provided software you can take live readings, log data direct to your hard drive and calibrate probes with fully recorded calibration reports



AP-7000 Aquaprobe Package

pH • ORP • conductivity • TDS • SSG • resistivity • salinity • optical dissolved oxygen • temperature • depth

Long term monitoring made easy with the AP-7000's effective self cleaning system

AP-7000 Self Cleaning System

Easy and cost effective to maintain

The self cleaning system on the AP-7000 cleans every sensor installed on the probe including pH and conductivity. Over time the brushes can become fouled particularly during long deployments so the wiper arm is designed to be easily removed for quick and simple brush replacement:

Top right: Remove the pin from the top of the cleaning arm Right: Slide out the cleaning arm

Bottom right: slide out the brushes and quickly replace

Various Logging options

See next page for more details on logging options

GPS Aquameter



AquaLogger-7000





BlackBox



AP-7000 Mechanical

Specification

Protection Class	IP68 (permanent immersion)
Immersion Depth	Min 75mm. max 100m [*]
Operating Temperature	-5°C-+70°C
Dimensions (L x Dia)	440mm x 77mm
Weight	1350g

^{*100}m submersion for period of 12 hours, 30m submersion suitable for permanent deployment, depth measurement up to 100m.



Aquaprobe Logging Options

GPS Aquameter • AquaLogger

BlackBox • AquaTel Telemetry

Many different logging options from spot testing to long term monitoring

Whatever your logging requirements we offer many options including spot testing, short to medium unmanned logging and data delivery using telemetry

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



GPS Aguameter Mechanical Specification

Dimensions (L x H x D)	90mm x 180mm x 39mm	
Weight	425g	
Display	80 character backlit LCD	
Data Memory	1110 full sets inc GLP data	
GPS Receiver	12 channel with int antenna	
GPS Accuracy	+/- 10m in all 3 dimensions	
Atmospheric Pressure	150mb - 1150mb Accuracy +/- 1mb	
Interface	USB (cable provided)	
Power Supply	5 x AA cells. Alkaline or Ni-MH rechargeable	
Battery Life	Alkaline > 20 hours Ni-MH > 40 hours	
Operating Temperature	-20°C to +70 C°	
Protection Class	IP67	



Aquaprobe Logging Options

GPS Aquameter • AquaLogger

• BlackBox • AquaTel Telemetry

Many different logging options from spot testing to long term monitoring

AquaLogger

The AquaLogger is designed to be robust enough to handle unmanned deployments in all kinds of conditions. There are 2 types of AquaLogger available:

- 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 and AP-7000 Aquaprobes



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

Every AquaLogger comes complete with LoggerLink PC software and USB data cable so that you can set up your logging regime at your desk. Logging is initiated when the probe is connected

BlackBox

The BlackBox is a data converter that outputs our probes signals to industry standard SDI-12 or Modbus (RS485) protocols.

RackBox Mechanical Specification

Hackbox Mechanical Opecinication		
Input Voltage	10V - 14V DC	
Input Current (awake)	~ 40mA (AP-Lite / AquaPlus / AP-700 - AP-2000) ~ 100mA (AP-5000 or AP-7000 attached) ~ 500mA (AP-7000 during self cleaning cycle)	
Input Current (asleep)	< 100µA (includes current drawn by attached Probe)	
Protection Class	IP67	
Dimensions	140mm x 65mm x 30mm	
Weight	400g	
Connections	Probe socket on flying lead & 1M screened power/data cable	
Fixing	Aluminium flange with four 5mm mounting holes	
Digital Interface	User selectable between SDI-12 & Modbus (RS485)	
Update rate	All data is refreshed every 2 seconds	



The BlackBox features an internal pressure sensor to detect changes in atmospheric pressure

All data output by the BlackBox is therefore fully compensated ready to be handled/displayed by the chosen third party hardware

AquaSonde Range

pH • ORP • conductivity • TDS • SSG • resistivity • salinity optical dissolved oxygen • temperature • depth

Water quality monitoring sonde with internal memory and power

The AquaSonde brings built in data logging capabilities to our range of reliable multiparameter water quality testing probes. Their internal power allows for long term discreet deployments



The AquaSonde brings built in data logging capabilities to our range of reliable multiparameter water quality testing probes.

The AquaSondes are powered by internal lithium batteries to extend the duration of your deployments for as long as 180 days, model and logging rate dependent.

All AquaSondes feature an internal memory that is capable of storing up to 150,000 full data sets, that equates to over 3 years continuous data logging.

These logging devices can be deployed on their own for a discrete deployment or they can be deployed with a vented cable allowing for barometric compensation of measurements, specifically depth and % saturation of dissolved oxygen.

> Each AquaSonde is supplied with a QuickDeploy Key, used to initiate the probe's logging regime and SondeLink PC software for complete logger set up, sensor calibration and data collection.

> > The key has multiple functions. It seals the connector, starts the pre-programmed logging and gives a visual indication of memory and power remaining.



AquaSonde Range

pH • ORP • conductivity • TDS • SSG • resistivity • salinity
• optical dissolved oxygen • temperature • depth

Water quality monitoring sonde with internal memory and power

Logging/Event/Cleaning Rates

hours. Programmable cleaning rate (AS-7000 only)

Programmable. Fastest logging rate 0.5Hz. Slowest logging rate 120 hours. Event testing and logging on any single parameter programmable between 1 minute and 99

Vented Data Cable Option

All models feature an internal barometric pressure sensor that is used when calculating Depth and percentage saturation of Dissolved Oxygen.

If the AquaSonde is to be deployed for more than a day at a time and accurate Depth and %DO values are required, a vented cable is recommended.

For profiling, dip testing or short-term deployment during which time the change in barometric pressure will be negligible, a vented cable is not necessary.

Vent / Data Hub

This option is a termination device for the vented cable that allows a desiccant bottle to be attached and provides a USB port for data retrieval and a visual indication of AquaSonde health, battery and memory condition. By attaching a PC running SondeLink to the USB port, direct access can be gained to the AquaSonde allowing live data viewing, live data logging directly to PC, retrieval of logged data and full setup, all whilst the AquaSonde is submerged.

AquaSonde Mechanical **Specification** AQUASONDE-2000 AQUASONDE-5000 AQUASONDE-7000 IP68 (permanent immersion) IP68 (permanent immersion) IP68 (permanent immersion) Min 75mm. Max 100m* Depth Min 75mm. Max 100m* Min 75mm. Max 100m* -5°C-+70°C Temperature -5°C-+70°C -5°C-+70°C 58 x 570mm 77 x 635mm 42 x 515mm **Dimensions** Weight (Inc Batt) 0.9kg 1.9kg 3.4kg 2x 3.6V Lithium D cells. 2x 3.6V Lithium C cells. 2x 3.6V Lithium D cells. Life greater than 6 months. Life greater than 10 months. Life greater than 9 months. Memory capacity 150,000 full data sets 150,000 full data sets 150.000 full data sets *100m submersion for profiling max duration 12 hours, 30m submersion suitable for permanent deployment. **Battery life estimated at 20°C with a logging rate of 15 minutes and a cleaning rate (AS-7000 only) of 12 hours, may vary with electrode options.

Aquaread Software

All Aquaread software is available for download from the dedicated software section on our website

All Software provided

Every Aquaread product that requires PC software comes with a USB data cable, software is available to download from our web site at www.aquaread.com/software-downloads/

GPS Aquameter - AquaLink AquaPlus Meter - OxiLink

AquaLink / OxiLink Features

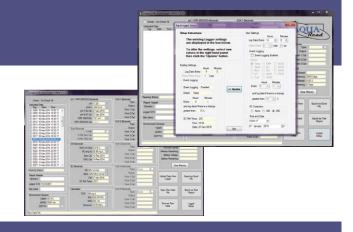
- Simple data download via button
- Tick and un-tick datasets to customise your outputs
- Output a text report for all highlighted data
- Output data as a CSV file that you can open in Excel
- Output data as a .KML file for use in Google Earth



AquaLogger - LoggerLink

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



AquaSonde - SondeLink

PC Application

SondeLink free PC application provides the following features via an integrated USB interface:

- Live data viewing
- Live data logging directly to PC
- Full calibration with calibration report generation
- Retrieval of logged data
- Logged data output to spreadsheet and text files
- Full setup utility
- Site name and GPS geotagging



Water Quality Specifications

	Dissolved Oxygen	Range	0 – 500.0% / 0 – 50.00 mg/L
		Resolution	0.1% / 0.01mg/L
		Accuracy	0 - 200%: ± 1% of reading. 200% - 500%: ± 10%
	Depth	Range	± 0 - 60.00 m (60m max displayed depth, max probe immersion 100m)
tn.	AP-2000/	Resolution	1cm
٠, ١	AP-5000	Accuracy	± 0.5% FS
<u>-</u>	Depth	Range	± 0 – 99.99 m
, w	AP-7000	Resolution	1cm
Ä		Accuracy	± 0.2% FS
ω	Conductivity	Range	0 - 200 mS/cm (0 - 200,000 μS/cm)
Ċ	(EC)	Resolution	3 Auto-range scales: Ο - 9999 μS/cm, 10.00 - 99.99 mS/cm, 100.0 - 200.0mS/cm
	(20)	Accuracy	± 1% of reading
<u></u>		Range	0 – 100,000 mg/L (ppm)
Parameters	TDS*	Resolution	2 Auto-range scales: 0 - 9999mg/L, 10.00 - 100.00g/L
		Accuracy	± 1% of reading
TO		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
7		Range	0 - 70 PSU / 0 - 70.00 ppt (g/Kg)
7	Salinity*	Resolution	0.01 PSU / 0.01 ppt
		Accuracy	± 1% of reading
(O	Seawater	Range	0 - 50 ot
7	Specific	Resolution	0.1 ot
–	Gravity*	Accuracy	± 1.0 ot
		Range	0 - 14 pH / ± 625mV
ίŌ	pН	Resolution	0.01 pH / ± 0.1mV
Standard		Accuracy	± 0.1 pH / ± 5mV
CO		Range	± 2000mV
	ORP	Resolution	0.1mV
		Accuracy	± 5mV
	Temperature	Range	-5°C - +50°C (23°F - 122°F)
	(non freezing)	Resolution	0.01°C / 0.1°F
	(non n cozing)	Accuracy	± 0.5 ℃

^{*} 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)
		Range	0 – 9,000mg/L (ppm)
	Ammonia [†]	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)
נט		Range	0 – 1,000mg/L (ppm)
	Fluoride	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)
	Calcium	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
	Dhusesussis	Range	0 - 300,000 cells/mL
	Phycocyanin (freshwater BGA)	Resolution	1 cell/mL
	,	Repeatability	± 10% of reading
TO TO	Phycerythrin	Range	200,000 cells/mL
U	(marine BGA)	Resolution	1 cell/mL
Optical	,	Repeatability	± 10% of reading
+ 2	Rhodamine	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
	Dyo	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















ISO 14001 Environmental Management

FS621752

EMS621753

Aquaread® - Community Trade Mark Registration No. 011713815 Aquaread® - Australia Trade Mark Registration No. 1436803 LeveLine® - Community Trade Mark Registration No. 011713823 Aquaprobe® - UK Trade Mark Registration No. 00003000628 Aquameter® - UK Trade Mark Registration No. 00003000627 LoggerLink® - UK Trade Mark Registration No. 3081814