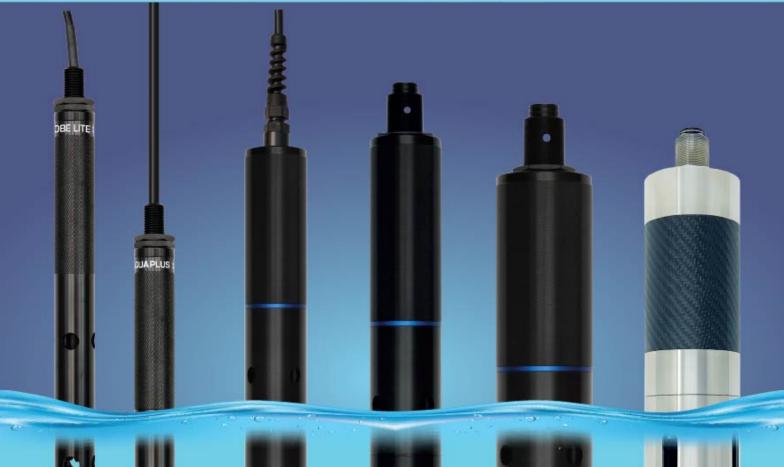
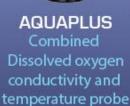


Aquaprobe Range



AP-LITE
Single-parameter
kit for optical
measurement



AP-700 & AP-800 Cost-efficient multiparameter

& AP-2000-D
Our bestseller
Measure up to
14 parameters
with a probe
only 42 mm
in diameter

AP-2000



AP-5000 Measure up to 16 parameters simultaneously



AP-PRO
New titanium probe
Up to
16 parameters
at depths of
up to 300m



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 monitoring. Choose from any of our optical sensors.



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.



AquaPlus

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 10m * *
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-700 / 800

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

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

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 package includes the Aquaprobe and its included sensors, a GPS Aquameter, a hard wired 3m cable with AquaConn connector all supplied in a carry case.



AP-700 /800 Mechanical

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

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



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

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

• The IP68 rated Aquaprobe is constructed of marine grade aluminium and is designed for

use in fresh, marine and waste-water applications.



AP-2000 / AP-2000-D

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



AP-2000/2000-D Mechanical
Specification

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

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



AP-5000

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 Aguaprobe means no external weights are required to allow the probe to drop below



AP-5000

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.



The PRO range builds on the success of the Aquaprobe series, elevating every aspect of the construction, design, features and specifications.

Every Aspect of Design Levelled Up

They bring with them new-to-industry materials allowing measurement at far greater depths, a unique measurement chamber for improved sensor stability in the most demanding applications and smart sensors that hold their calibration data, allowing for simple sensor exchange in the field.

Constructed Using Titanium and Carbon Fibre

The AP PRO is built using combination of titanium and carbon fibre, offering both exceptional corrosion resistance and high compressive strength. As a result both are capable of measuring at extreme depths of up to 1000ft (300m).

Full range of Smart Sensors



The range sees the introduction of smart sensors, sensors that hold calibration data allowing exchange without the need to recalibrate.

Sensors can be carefully calibrated in the lab and taken to the deployment site for simple exchange removing the need to calibrate in the field.

Four Auxiliary ports allow extra smart sensors to be installed diversifying monitoring options.

Unique Measurement Chamber

The protective end cap, found on all Aquaprobes, has been extended along the inside of the sleeve. When screwed onto the sleeve it creates a more stable measurement chamber for all installed sensors.

Its matt black design prevents reflection and the multiple holes in the cap allow good water flow through the system.





Measurement chamber removed from probe sleeve



Smart Sensors • pH • ORP • conductivity • TDS • SSG • resistivity
• salinity • optical dissolved oxygen • temperature • 300m depth

Our most advanced self cleaning water monitoring probe



Measurement Chamber as a Calibration Vessel

The measurement chamber can also be used for sensor calibration using the calibration cup that push-fits to the base of the probe. This surrounds and seals the holes and allows the probe to stand upright.

Utilising the measurement chamber in this way reduces the volume of calibration solution required, reducing maintenance costs and improves the quality of the calibration.

Calibration cup seals measurement chamber and allows probe to stand during calibration.

The Perfect Choice for Telemetry

Whilst the AP-PRO is the most advanced portable water quality monitoring probe in the range, it is also a perfect choice for deployment with the AquaTel telemetry device.

The AP-PRO connects directly to the Aquatel and is automatically recognised by the device. The Aquatel houses a barometric pressure sensor for live compensations for % saturation of Dissolved oxygen readings and for depth measurement.

The measurement chamber, advanced data handling software, automatic self cleaning and smart sensors make the AP-PRO the best choice for remote unmanned data collection.

AquaTel telemetry device



Protection Class	IP68 (permanent immersion)
Immersion Depth	Max 1000ft (300m)
Operating Temperature	-5°C-+70°C
Dimensions (L x Dia)	410mm x 70mm
Weight	950g
Power	Aquameter/Blackbox

Data & Communications

Bluetooth paired with a mobile app and classic wired handheld options available

Wireless communication options helping to bring your data to you

Bluelink - Bluetooth Module

View live readings on your mobile device and perform sensor calibrations

BlueLink adaptor will allow you to view probe data on your Apple or Android device

Use the mobile app to automate low flow sampling making your job easier in the field

Bluelink features a built in pressure sensor for barometric data compensations



GPS Aquameter



The GPS Aquameter is a hand held device with a display for live data viewing and data recording. 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



Portable Applications

Some examples of portable applications ideal for the Aquaprobe range



Specifications

Dissolu	Range	0 – 500.0% / 0 – 50.00 mg/L
Охуде	Dogolution	0.1% / 0.01mg/L
Cixyye	Accuracy	0 - 200%: ± 1% of reading. 200% - 500%: ± 10%
Dept	n Range	± 0 - 60.00 m (60m max displayed depth, max probe immersion 100m)
AP-200	O/ Resolution	1cm
AP-50	OO Accuracy	±0.5% FS
Depti	Range	±0 - 99.99 m
AP-70	Deschation	1cm
	Accuracy	± 0.2% FS
Conduct	ivity Range	0 - 200 mS/cm (0 - 200,000 μS/cm)
(EC)	The second second second	3 Auto-range scales: 0 - 9999 µS/cm, 10.00 - 99.99 mS/cm, 100.0 - 200.0mS/cm
(20)	Accuracy	± 1% of reading
10000	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	5Ω*cm – 1 MΩ*cm
Resistiv	ity* Resolution	2 Auto-range scales: 5 - 9999 Ω • cm, 10.0 - 1000.0 KΩ • cm
	Accuracy	± 1% of reading
	Renge	0 - 70 PSU / 0 - 70.00 ppt (g/Kg)
Salinit	y* Resolution	0.01 PSU / 0.01 ppt
	Accuracy	± 1% of reading
Seawat	er Range	0 - 50 ot
Specif	ic Resolution	0.1 ot
Gravit	/* Accuracy	±1.0 ot
	Range	0 - 14 pH / ± 625mV
pH	Resolution	0.01 pH / ± 0.1mV
	Accuracy	± 0.1 pH / ± 5mV
	Range	± 2000mV
ORP	Resolution	0.1mV
	Accuracy	± 5mV
Tempera	Renge	-5°C – +50°C (23°F – 122°F)
Inon free	Depolution	0.01°C / 0.1°F
funti 11.88	Accuracy	±0.5°C

Readings calculated from	EC and	temperature electrode value	25
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		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)
	2000 0000	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)
	30-022-17-032-1	Range	0 – 20,000mg/L (ppm)
<u> </u>	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)
		Range	0 – 1,000mg/L (ppm)
100	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 reeding or 2ppm (whichever is greater)
	2007000	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)

	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 continuous source)	Repeatability	± 10% of reading
Discount of the	Range	200,000 cells/mL
Phycerythrin (merine BGA)	Resolution	1 cell/mL
fina inc bary	Repeatability	± 10% of reading
Rhodemine	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
Djo	Accuracy	± 5% of reading
Fluorescein	Range	Ο – 500 μg/L (ppb)
7.77.75.75.75.75.75.75.75.75.75.75.75.75	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 Sulphete)
CDOM / FDOM	Resolution	2 Auto-range scales: 0.0 - 9,999.9 µg/L, 10,000 - 20,000 µg/L
100	Repeatability	± 10% of reading

A little space for your notes

Jot down the products you are interested in and give us a call to discuss your requirements on +44 (0) 1843 600 030



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ISO 14001 Environmental Management

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