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

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.

• Its metal construction and weight reflect the superior build quality of the instrument.



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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 1 week, 30m submersion suitable for permanent deployment, depth measurement displayed up to 60m on Aquameter.



Water **Quality** Specifications

	Disasterat	Range	0 - 500.0% / 0 - 50.00 mg/L
	Oxygen	Resolution	0.1% / 0.01mg/L
	Oxygen	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
	AP-5000	Accuracy	± 0.5% FS
	Depth AP-7000	Range	± 0 – 99.99 m
<u> </u>		Resolution	1cm
يہ		Accuracy	± 0.2% FS
U	Conductivity	Range	0 – 200 mS/cm (0 - 200,000 µS/cm)
Ē	(FC)	Resolution	3 Auto-range scales: 0 – 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)
N	TDS*	Resolution	2 Auto-range scales: 0 – 9999mg/L, 10.00 – 100.00g/L
		Accuracy	± 1% of reading
O		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
	Salinity*	Range	0 – 70 PSU / 0 – 70.00 ppt (g/Kg)
<u> </u>		Resolution	0.01 PSU / 0.01 ppt
		Accuracy	± 1% of reading
(0)	Seawater	Range	0 - 50 ot
	Specific	Resolution	0.1 ot
Ξ	Gravity*	Accuracy	± 1.0 ot
		Range	0 - 14 pH / ± 625mV
Ū	pН	Resolution	0.01 pH / ± 0.1mV
с Ļ		Accuracy	± 0.1 pH / ± 5mV
()		Range	± 2000mV
	ORP	Resolution	0.1mV
		Accuracy	± 5mV
	Tomporature	Range	-5°C – +50°C (23°F – 122°F)
	(non freezing)	Resolution	0.01°C / 0.1°F
	(non neezing)	Accuracy	± 0.5 °C

ISE	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 [†]	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
			+ 10% of positing on 2ppm (whichowon is gnoston)

† Ammonium electrode required. Readings calculated from ammonium, pH and temperature values.

	Turbidity	Range	0 – 3000 NTU
		Resolution	2 Auto-range scales: 0.0 - 99.9 NTU, 100 - 3000 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
σ	Dhyconythnin	Range	200,000 cells/mL
C	(marine BGA)	Resolution	1 cell/mL
	(Repeatability	± 10% of reading
د	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
$\overline{\mathbf{n}}$		Accuracy	± 5% of reading
\cup	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) (Napthalene)
		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.