

The Aquaread Pro Series is the latest innovation of water quality sensors. This improved design provides Titanium and Carbon Fibre that allows measurement up to 1000ft (300 meters) , a unique protective end cap that extends into the sleeve creating a safer measurement and calibration chamber, and optical DO, Electrical Conductivity, pH , ORP, Temperature and Depth Smart sensors. It is outfitted with a novel three-position switch ring mechanism allowing you to turn the unit off, set it to auto or activate Bluetooth mode, with an LED ring for visual conformation.

FEATURES

- Titanium& Carbon Fibre Build
- Smart Sensors with Memory
- Unique Measurement Chamber
- 1000 ft Depth Rating
- Integrated Bluetooth
- Self Cleaning

SMART SENSORS INCLUDED

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.



CALL GEOTECH TODAY

(800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • FAX (303) 322-7242

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AS-PRO CONTROL RING

The AS-PRO is fitted with a novel three position switch ring mechanism to change the function of the sonde. You can turn the unit off, set it to auto or activate bluetooth mode, with an LED ring for visual conformation.

When in Auto mode the sonde will detect if its connector has been connected to a vented cable, to an Aquameter or a PC via USB and react accordingly. When set to Bluetooth, using the SondeLink App, you can take live data readings, calibrate, setup the logging regime, check battery and memory levels and upload logged data from the Sonde to the PC.



DIMENSIONS

AP-PRO

AS-PRO

	AP-PRO	AS-PRO
Protection Class	IP68 (permanent immersion)	IP68 (permanent immersion)
Immersion Depth	Max 1000 ft (300 m)	Max 1000 ft (300 m)
Operating Temperature	-5 C - +70 C	-5 C - +70 C 410
Dimensions (L x Dia)	410 mm x 70 mm	630 mm x 70 mm
Weight	950 g	1.9 kg
Power	Aquameter/ Aqualogger	2x Lithium D Cells

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Standard Parameters

Optical 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 – 300.00 m (1000 ft max depth)
Resolution	1 cm
Accuracy	±0.04% FS

Conductivity (EC)

Range	0-200 mS/cm (0–200,000 µS/cm)
Resolution	3 Auto-range scales: 0–9,999 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: 0–9,999mg/L, 10.00–100.00g/L
Accuracy	±1% of reading

Resistivity*

Range	5Ω-cm–1MΩ-cm
Resolution	2 Auto-range scales: 5–9,999 Ω-cm, 10.0–1,000.0 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 σ _t
Resolution	0.1 σ _t
Accuracy	±1.0 σ _t

pH

Range	0–14 pH/±625mV
Resolution	0.01 pH/±0.1mV
Accuracy	±0.01 pH/±5mV

* Readings calculated from EC and temperature electrode values.

ORP

Range	±2,000mV
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

ISE Electrode

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 2 ppm (whichever is greater)

Ammonia**

Range	0–9,000 mg/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 2 ppm (whichever is greater)

Chloride

Range	0–20,000mg/L (ppm)
Resolution	2 Auto-range scales: 0.00–99.99 mg/L, 100.0–999.9 mg/L
Accuracy	±10% of reading or 2 ppm (whichever is greater)

Fluoride

Range	0–1,000mg/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 2 ppm (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 2 ppm (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 2 ppm (whichever is greater)

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

Optical Electrode

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 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 (Fresh Water Blue-Green Algae)

Range	0–300,000 cells/mL
Resolution	1 cell/mL
Repeatability	±10% of reading

Phycoerythrin (Marine Blue-Green Algae)

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

(Colored Dissolved Organic Matter/Fluorescent Diss. Organic Matter)

Range	0–20,000µg/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

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