



WATER QUALITY
SOLUTIONS



HydroTerra

Environmental Monitoring Specialists

HANDHELD WATER QUALITY METERS

Solutions from HydroTerra

Accurate Water Quality Data, When You Need It.

hydroterra.com.au



HydroTerra's diverse range of Handheld water quality meters

HydroTerra provides a comprehensive range of robust and reliable handheld water quality meters to meet diverse monitoring needs. From basic pH and conductivity measurements to complex multi-sensor readings, we have the right instrument for you.

This brochure provides an overview of our handheld solutions, categorised by the number of parameters they measure simultaneously.

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Simplified Parameter Table (more parameters available)

Meter System	pH	ORP	Con	DO (Opt.)	DO (Elec.)	Turbidity	IONS
Aqualabo NEON + PHEHT	●	●					
Aqualabo NEON C4E			●				
Aqualabo NEON OD				●			
Aqualabo NEON VB							
Aqualabo NEON OPEN	●	●	●	●		●	
Aqualabo ODEON One/X	●	●	●	●		●	
AquaRead AP-LITE						●	
Aquaread AP-700	●	●	●	●	●		
Aquaread AP-800	●	●	●	●	●	●	
Aquaread AP-2000/ 5000/ 7000)	●	●	●	●		●	●
Horiba LAQUA 300	●	●	●	●	●	●	●
Horiba LAQUA DO220					●		
Horiba LAQUA TB220-K						●	
Horiba LAQUA EC220			●				
Horiba LAQUA PC210	●	●	●				
Horiba LAQUA PD210/220	●	●			●		
Horiba U-50 Series	●	●	●	●		●	
YSI EcoSense DO200A				●			
YSI EcoSense EC300A			●				
YSI EcoSense ODO200					●		
YSI EcoSense pH100A	●	●					
YSI PRO2030			●		●		
YSI Pro20i					●		
YSI PRODSS	●	●	●	●		●	●
YSI ProQuatro	●	●	●		●		●
YSI ProSolo			●	●			
YSI ProSwap	●	●	●	●		●	●

● = Parameter comes standard, ● = Optional Parameter

1. Single Parameter Meters

1(i) AquaRead AP-LITE Single Parameter for Optical Sensors



Single parameter digital water quality sensor supporting AquaRead's range of Optical Water Quality Sensors. The AP-LITE probe is a single optical socket that works with the Aquameter Portable Meter. An alternative is the new BlueLink BlueTooth Adapter used in association with an App on your Smartphone.



The range of optical sensors that are supported by the AP-LITE probe are as follows:

- Turbidity
- Chlorophyll a
- Blue Green Algae (fresh or saltwater opt available)
- CDOM/FDOM
- Rhodamine
- Fluoresceine
- Refined Oil

1 (ii) Aqualabo NEON + PHEHT Handheld pH Meter



The NEON handheld device, when paired with the PHEHT sensor, provides precise measurement of pH, ORP, and temperature. With its integrated data logging function, NEON can store up to 30,000 measurement points in both manual and automatic modes. Data transfer to a computer is fast and cable-free via the built-in WiFi Transfer feature.

Engineered for high stability and resistance to interference, the PHEHT sensor includes integrated pre-amplification and digital signal processing. All calibration settings, measurement data, user information, and history are stored and managed directly within the sensor and seamlessly transmitted to the NEON unit.



1 (iii) Aqualabo NEON OPTOD (Stainless & Titanium) Handheld DO Meter



Always ready for use, the NEON device combined with the OPTOD sensor provides accurate measurements of dissolved oxygen in both % saturation and mg/L, along with temperature readings. NEON features a built-in data logging function capable of storing up to 30,000 measurement points in both manual and automatic modes.

Data transfer is simple and cable-free, thanks to its integrated WiFi Transfer function. Built for reliability, the OPTOD sensor includes an integrated pre-amplifier and digital signal processing, making it highly resistant to external disturbances. It employs optical luminescence technology, compliant with ASTM D888-05 and ISO 17289 standards, ensuring precise, reliable results with minimal maintenance. The only maintenance requirement is the replacement of the DO disk every two years. It does not consume oxygen during measurement, making it ideal for a wide range of environments, including those with low water flow.



1(iv) Aqualabo NEON C4E Handheld Conductivity Meter

When paired with the C4E sensor, the NEON device enables precise measurement of conductivity, salinity, and temperature. NEON includes an integrated data logging function capable of storing up to 30,000 measurement points in both.

Designed for robust performance, the C4E sensor features an integrated pre-amplifier and digital signal processing, making it highly resistant to electrical and environmental interference. All calibration parameters, measurement history, user settings, and recorded data are processed directly within the C4E sensor and seamlessly transmitted to the NEON unit for analysis and storage



1(v) Aqualabo NEON VB – Handheld Sludge Blanket detection

When used with the VB5 Sludge Detection sensor, the portable NEON device enables accurate measurement of temperature and mud veil levels in settling tanks. NEON includes a data logging function that stores up to 30,000 measurement points in both manual and automatic modes. Data transfer to a computer is made easy via the WiFi Transfer function, requiring no additional cables.

Designed to resist interference, the VB5 sensor features built-in pre-amplification and digital signal processing. All calibration data, measurement history, user settings, and readings are processed directly within the sensor and sent to the NEON handheld unit.

The measurement principle is based on infrared (IR) signal attenuation at 870 nm, detected through a 5 mm optical slot. Mud veil levels are reported as percent IR transmission. For improved accuracy, the sensor's optics are temperature-regulated using a CTN-based system that also measures the surrounding temperature.



1(vi) Aqualabo NEON OPEN



Latest field meter from Aqualabo. Always ready for use, NEON Open can be connected to one sensor among DIGISENS range of sensors allowing reading of dissolved oxygen (% and mg/L) pH, ORP, Conductivity, Salinity, Turbidity, Suspended Solid or Sludge blanket detection. NEON Open also offers a recording function (30 000 measuring points) in a punctual and automatic mode.

Has the flexibility of providing only the measurements you are interested in. If a new need arises, then add the additional sensor at a later stage.



1(vii) YSI Pro20i Portable Dissolved Oxygen Meter



The YSI Pro20i dissolved oxygen (DO) meter is a rugged, user-friendly instrument with a built-in (integrated) cable for dissolved oxygen and temperature measurements.

Choose between galvanic and polarographic DO sensors.

Both sensor types provide rapid response times achieving a 95% response within 8 seconds (with a standard membrane) while producing reliable, accurate DO data.

The Polarographic sensor delivers long-lasting performance to help reduce overall costs, while the Galvanic sensor enables immediate sampling with no warm-up time required. An internal barometer enhances measurement accuracy, and the device can store up to 50 data sets for convenient data tracking and analysis.



1(viii) YSI Pro Solo: Optical Dissolved Oxygen Meter



The ProSolo handheld is a Dissolved Oxygen field meter. It replaces the ProODO as YSI's most advanced optical dissolved oxygen field meter.

The ProSolo can be connected to the following probe assemblies:

- ODO/T (Optical DO/Temperature)
- ODO/CT(Optical DO/Conductivity/Temperature for salinity \ compensated DO measurements.)
- ProOBOD: Compatible for laboratory BOD testing

The optical DO technology is non-consumptive, therefore reduced maintenance with no membranes or electrolytes required. The instrument is rugged with an IP-67 waterproof housing and up to 48 hours of battery life. Key features include storage for 100,000+ data sets, a colour display, easy USB data export, and support for user-replaceable cables up to 100 meters. or continuous, automated monitoring in applications like flood and drought studies, watershed recharge, and lake monitoring.



1(ix) YSI Pro SWAP



The YSI ProSwap is designed for quick, field-ready sensor swapping. Using a single-port cable, users can easily connect a wide range of smart digital sensors - no recalibration needed. Built-in temperature sensing and optional depth sensors make it ideal for both spot checks and vertical profiling. Supports:

- pH
- pH/ORP
- Conductivity/Temperature
- Optical Dissolved Oxygen
- Turbidity
- Ammonium ISE
- Chloride ISE
- Nitrate ISE
- Total Algae - PC
- Total Algae - PE



Each sensor is auto-recognised with built-in calibration data storage, enabling plug-and-play performance and fast deployment in the field.

Each sensor incorporates smart sensor technology that enables sensors to be automatically recognized by the handheld. Additionally, DIGITAL sensors store calibration data, so probe assemblies can be swapped between handhelds without the need for re-calibration.

1(x) Aqualabo ODEON Open One

The ODEON Open One is designed for both field and laboratory settings. This instrument features a single input channel, allowing for the connection of one DIGISENS probe at a time. When used with a Y splitter or probe tripod, it can accommodate up to two or three sensors through the same channel respectively. Capable of storing over 100 000 records enables wide autonomy (190hrs recording). Data can be export via USB and RS-485 interfaces.

Compatible sensors:

- pH/ORP
- OPTOD sensor (Dissolved oxygen)
- Turbidity
- Conductivity/Salinity
- Conductivity/Salinity (Induction technology)
- ORP
- Sludge level detection
- SS/Turbidity/Sludge

Additionally, the handheld device is compatible with the PHOTOPD accessory, transforming it into a photometer capable of analysing over 40 additional parameters, including various ions and compounds, drastically increasing the functionality of the meter.



1(xi) YSI EcoSense pH100A Handheld pH Meter

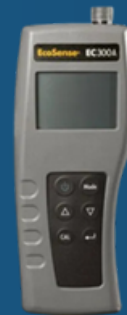


Get reliable pH, ORP, and Temperature readings with the user-friendly YSI EcoSense pH100A. This economical, IP67 waterproof meter simplifies operation with automatic buffer recognition and provides valuable electrode condition feedback for confident measurements. Ideal for diverse spot sampling in the field or lab (wastewater, surface water, aquaculture).



1(xii) YSI EcoSense EC300A Conductivity Meter

Obtain measurements of Conductivity, Specific Conductance, Salinity, TDS, and Temperature with the affordable EcoSense EC300A. Its robust 4-electrode conductivity cell ensures stable field performance across various water types. This user-friendly, IP67 waterproof meter is perfect for environmental monitoring and aquaculture checks.



1(xiii) YSI EcoSense DO200A Dissolved Oxygen Meter

Accurately measure Dissolved Oxygen and Temperature with the budget-friendly YSI EcoSense DO200A. Utilising proven electrochemical technology, this easy-to-use, IP67 waterproof meter is ideal for reliable field (wastewater, surface water, aquaculture) and lab applications, including BOD testing. Features include simple calibration, manual compensation inputs, and a 50-set memory.



1(xiv) YSI EcoSense ODO200 Optical DO Meter

Measure Dissolved Oxygen and Temperature with the EcoSense ODO200, featuring non-consumptive optical DO technology. Enjoy significantly reduced maintenance, no membranes, electrolytes, or stirring required while achieving accurate, stable readings. This IP67 waterproof, US EPA-approved meter is ideal for convenient field sampling, especially where minimal maintenance is valued.



1(xv) Horiba Laqua EC210/220: Conductivity Meter

The EC210/220 measures conductivity, resistivity, salinity, TDS, and temperature, and features auto stable, auto hold, and real-time measurement modes within a waterproof (IP67), shock-resistant design. It offers auto data logging with built-in memory capable of storing up to 500 data points for the EC210 model or 1000 data points for the EC220 model. Calibration is flexible, allowing for automatic conductivity calibration with up to 4 points or manual calibration with up to 5 points. Exclusive to the EC220, additional features include a phono jack output for PC (USB) or printer (RS232) connectivity, and a built-in real-time clock with date/time stamping to ensure GLP compliance.



1(xvi) Horiba Laqua DO210/220: Dissolved Oxygen Meter

The Laqua DO210/220 handheld meters measure dissolved oxygen concentration in ppm (mg/L) and % saturation with a galvanic DO probe. They offer auto stable, auto hold, and real-time measurement modes displayed on a monochrome LCD, all housed in an IP67-rated, shock- and scratch-resistant, non-slip casing. The DO210 model auto-logs up to 500 data points, while the DO220 doubles that capacity to 1000 points. Both models support up to two-point dissolved-oxygen calibration for the galvanic electrode. Additionally, the DO220 includes a GLP-compliant real-time clock with date/time stamping and a phono-jack output for PC (USB) and RS232-printer connectivity for seamless data collection and printouts



1(xvii) Horiba Laqua TB220-K: Turbidity Meter

The HORIBA LAQUA TB220-K is a rugged, portable turbidity meter designed for high-precision water quality analysis across environmental, industrial, and laboratory settings. The TB220-K offers ratiometric turbidity measurement using nephelometric light scatter and transmitted light signals. It has auto-ranging capability up to 2000 NTU making it suitable for a wide range of turbidity levels. High accuracy calibration is available using 4-point calibration using SDVB polymer standards (0.02, 20, 100, 800 NTU) for high accuracy. Suitable for applications including environmental monitoring, aquaculture, drinking water, wastewater treatment, and industrial process control



1(xviii) Horiba Laqua 310

HORIBA

Part of the Laqua 300 series, this single-channel handheld meter features a vivid color display and is housed in a durable, IP67-rated casing designed for demanding environments.

Compatible with:

- PH
- ORP
- EC (2-Cell & 4-Cell)
- DO (optical)
- IONS (K+, Ca²⁺, F⁻, NO₃, Cl⁻, NH₃, and custom)

Intelligent sensor recognition automatically configures the meter for the connected probe type, ensuring seamless operation. The meter can store up to 10,000 readings and data transfer is available via USB or Wi-Fi. While Auto Stable, Auto Hold, and Real-Time modes enable accurate and consistent measurement capture. For users needing compatibility with traditional electrodes, the optional 300-BNC sensor head adapter allows connection of conventional BNC and phono-style probes.



2. Bi Parameter Meters

2(i) Aqualabo ODEON Open X

The ODEON Open X is designed for both field and laboratory use. It features two input channels, allowing connection to two DIGISENS probes at a time. When paired with a probe tripod, the meter can accommodate up to three sensors on a single channel. Alternatively, a wire splitter can be used to connect two sensors through the same channel.

Compatible Sensors:

- pH/ORP
- OPTOD sensor (Dissolved Oxygen)
- Turbidity
- Conductivity/Salinity
- Conductivity/Salinity (Induction Technology)
- ORP
- Sludge Level Detection
- SS/Turbidity/Sludge



Additionally, the handheld device is compatible with the PHOTOPOD accessory, transforming it into a photometer capable of analysing over 40 additional parameters, including various ions and compounds.

2(ii) Horiba Laqua PD220/20

The Laqua PD210/PD220 handheld meters measure pH, ORP, and dissolved oxygen (galvanic) through 2 channels. They feature auto stable, auto hold, and real-time measurement modes on a LCD display, all housed in an IP67-rated shock resistant casing.

The PD210 model auto-logs up to 500 data points in its internal memory, while the PD220 doubles that to 1000 points and adds programmable auto shut-off and calibration. Both meters support automatic pH calibration up to 6 points and up to two-point DO calibration. Exclusive to the PD220 is a real-time clock with date/time stamping for GLP compliance and a phono-jack output for PC (USB) and RS-232 printer connectivity for easy data transfer and printouts. Both models are powered by 2 × AA batteries (over 500 hours runtime).



2(iii) YSI PRO2030 DO and Conductivity Meter



The rugged YSI PRO2030, simultaneously measuring Dissolved Oxygen, Conductivity, Salinity, TDS, Barometric Pressure, and Temperature. For the DO measurements choose between a long-life Polarographic sensor or “instant-on” Galvanic DO sensor.

An internal barometer and automatic salinity correction ensure pinpoint DO accuracy, while the cable-mounted four-electrode conductivity cell provides years of drift-free data. Built for the harshest environments, its impact-resistant, waterproof housing and field-replaceable sensors make maintenance simple, and US EPA approval for drinking-water and wastewater compliance.



2(iv) Horiba Laqua 320



Laqua 300's dual channel meter allowing simultaneous measurement of two parameters. Boasting a colour display and housed in rugged IP67-rated casing.

Compatible with:

- PH
- ORP
- EC (2-Cell & 4-Cell)
- DO (optical)
- IONS (K+, Ca²⁺, F-, NO₃, Cl-, NH₃, and custom)

Intelligent sensor recognition automatically configures the meter for the connected probe type, ensuring seamless operation. The meter can store up to 10,000 readings and data transfer is available via USB or Wi-Fi. while Auto Stable, Auto Hold, and Real-Time modes enable accurate and consistent measurement capture. For users needing compatibility with traditional electrodes, the optional 300-BNC sensor head adapter allows connection of conventional BNC and phono-style probes.



3. Multiparameter Meters



3(i) Xylem PRODSS

YSI's ProDSS represents the top of the line in multiparameter handheld meters. It's highly customisable with the 4-port cable assembly which can be outfitted with any four sensor as well further options to integrate GPS and depth measurement capabilities.

Sensors available:

- Optical Dissolved Oxygen
- Turbidity
- Total Algae – Phycocyanin
- Total Algae – Phycoerythrin
- pH
- ORP
- Conductivity
- Total Suspended Solids (TSS)
- Ammonium/Ammonia
- Chloride
- Nitrate



The ProDSS sensors are built for durability with rugged titanium construction and are fully user replaceable. Smart sensor technology allows the ProDSS to automatically detect connected sensors and store their calibration data. Additional features include on-screen graphing, digital signal transmission that supports cable lengths up to 100 meters, and internal memory capable of storing over 100,000 data sets. It operates on a rechargeable battery and is also compatible with 1-port ProSwap cables, providing greater flexibility in the field.

3(ii) Xylem PRO Quatro

The ProQuatro Multiparameter Handheld was designed to be used with the 4-port Quatro cable. Combine up to 4 sensors on a single cable.

Parameters:

- conductivity
- DO (polarographic or galvanic)
- and any two ISEs:
- pH
- ORP
- Ammonium
- Chloride
- Nitrate



US EPA approved for drinking water and wastewater compliance reporting. Supports cable lengths up to 30m (analogue signal) and can store over 5,000 data sets. The pro quatro can also be used with 1 port and 2 port cable options.

3(iii) Aquaread AP-700/ 800



The AP-700 and 800 are entry-level multiparameter water quality instruments that combines a marine-grade aluminium probe with a handheld GPS-equipped display unit (aquameter). Both probes offer the “big 4” parameters, with the AP-800 adding a turbidity sensor. A recent upgrade to the AP-700 and AP-800 add options for optical DO and Depth sensors.

Parameters:

- pH
- ORP
- Conductivity
- Dissolved oxygen (Galvanic DO or Optical DO options)
- Turbidity (AP-800 only)
- Optional Depth

The aquameter offers manual and automatic data logging (with GPS tagging), simple one-button data capture, and seamless data export via USB using the free AquaLink software. Extension cables are available to extend the length of the cable up to 100 m. Both units are available as complete packages that including: Aquameter, radical solution, pH storage solution, and other accessories.



Now available with either the GPS Aquameter or Bluelink.

3(iv) Aquaread AP 2000/ 5000/6000



The AP-2000, 5000 and 6000 are Aquareads advanced portable multiparameter instruments. Both units come with the standard parameters and the capability to expand. They can be connected to the traditional Aquameter or the new bluelink device bringing data directly to your phone via Bluetooth and the app.

AP 2000

The AP-2000 is the smaller of the range. Coming with the standard parameters with the ability to expand with 2 auxiliary ports. AUX1 can house any of the optical or ISE sensors and AUX2 can house any of ISE sensors. Optional depth sensor is available.

AP 5000

The AP-5000 is the larger version of the range. It comes with the standard parameters and can expand through 4 additional ports allowing you to add any combination of the ISE and optical sensors into these ports.

AP 6000

Offers the same port configurations as the AP-5000 with the addition of an inbuilt wiper that clears all connected sensors. Can be used with the aquameter, Bluelink, and Aqualogger for long term deployment.



Standard Parameters:

- pH
- ORP
- Con
- Dissolved Oxygen (Optical)

Optical Electrode options:

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

ISE Electrode Options:

- Ammonium / Ammonia
- Chloride
- Nitrate
- Fluoride
- Calcium

Packages:

AP 2000/5000/6000 are all offered in packages that include: Probe with standard parameters, Bluelink or GPS Aquameter, cable, and a variety of accessories.

3(v) Horiba Laqua 330

Laqua 300s triple-channel meter is capable of measuring three parameters concurrently. Boasting a colour display and housed in rugged IP67-rated casing.

Connect three compatible sensors:

- PH
- ORP
- EC
- DO
- IONS (K+, Ca²⁺, F-, NO₃, Cl-, NH₃, and custom)



Intelligent sensor recognition automatically configures the meter for the connected probe type, ensuring seamless operation. The meter can store up to 10,000 readings and data transfer is available via USB or Wi-Fi. While Auto Stable, Auto Hold, and Real-Time modes enable accurate and consistent measurement capture. For users needing compatibility with traditional electrodes, the optional 300-BNC sensor head adapter allows connection of conventional BNC and phono-style probes.

3(vi) Horiba U-50 Series

The HORIBA U-50 Series is a rugged, waterproof water quality meter designed specifically for field use. It can measure and display up to 11 parameters using a single probe equipped with six integrated sensors.

Sensors:

- pH
- ORP
- Dissolved oxygen (Polarographic)
- Conductivity (4 electrode)
- Turbidity
- Water depth



Turbidity can be measured using two different principles: an LED light source or a tungsten lamp source, offering variety based on application needs. It includes a backlit LCD for easy visibility of data, one-touch calibration for fast and accurate setup, and USB connectivity for quick data transfer. Offers cable lengths up to 30 meters, providing flexibility for various field environments.

3(vii) Solinst Eureka EasyProbe



Two EasyProbe options are available from Solinst Eureka, both offering high-performance water quality monitoring at a low cost.

The EasyProbe20 includes a multiprobe with temperature, dissolved oxygen, conductivity, and pH/ORP sensors in a 1.95" (50 mm) diameter instrument, a weighted sensor guard, a tool and maintenance kit, and a soft carrying case.

The EasyProbe30 includes the same as the EasyProbe20 plus a turbidity sensor with wiper in a 2.95" (75 mm) diameter instrument and optional battery pack for self-powered logging.

The EasyProbes are available with many options and accessories including: depth (level) sensors, USB adapter and data cable for connection to a Windows PC, 5, 10, 20, 30, 40, and 50 m underwater cables, integrated SDI-12 and MODBUS output for connection to third-party devices, flow cell, copper anti-fouling kit, pipe kit, telemetry kit, and calibration solutions.

The EasyProbe20 and EasyProbe30 can also be connected to the wireless manta Mobile BlueTooth device supporting handheld operation of the sondes with Android or Apple devices.

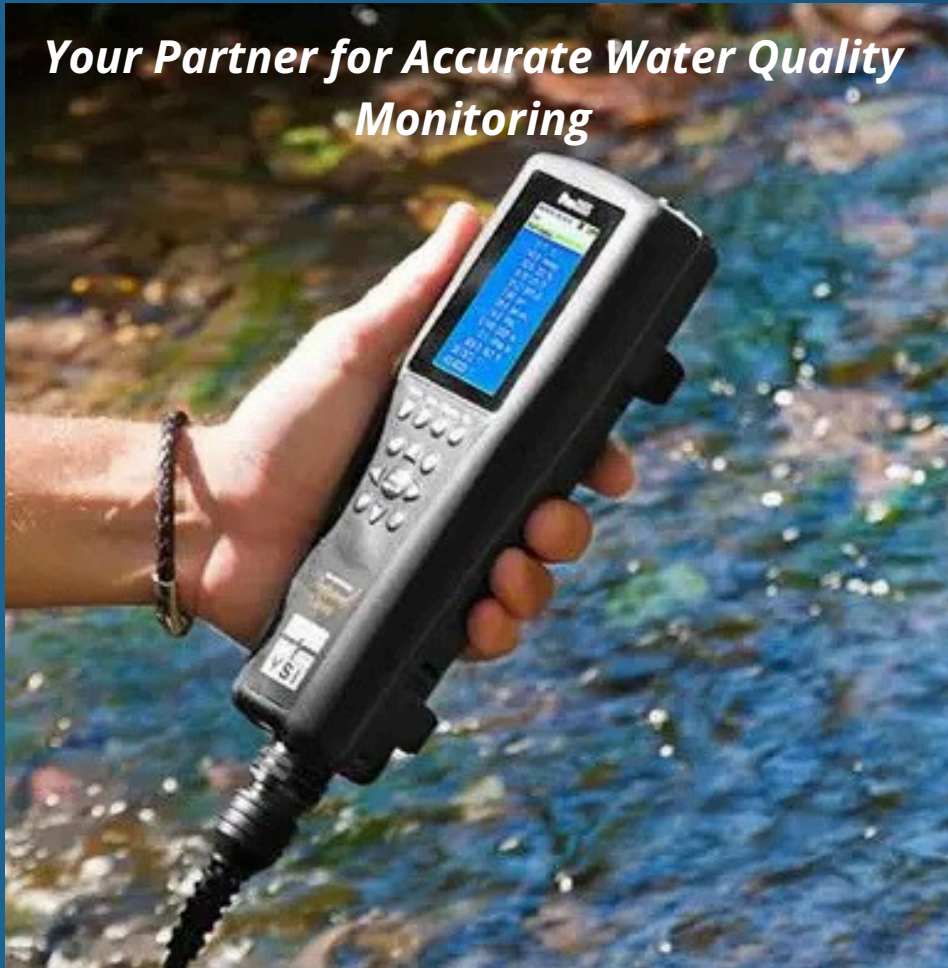




HydroTerra

Environmental Monitoring Specialists

Your Partner for Accurate Water Quality Monitoring



At HydroTerra, we are dedicated to providing robust, reliable, and user-friendly handheld water quality meters to meet a wide spectrum of monitoring demands. Our extensive selection spans single-parameter, bi-parameter, and advanced multi-parameter instruments, ensuring that whether you are conducting critical spot checks in the field, performing precise laboratory analyses, or managing essential water treatment processes, we have the right solution to deliver accurate data, anywhere you need it.

Our meters, sourced from leading manufacturers like AquaRead, Aqualabo, YSI (Xylem), and Horiba Laqua, are designed for durability, ease of use, and precision, helping you make informed decisions with confidence. From basic pH and conductivity measurements to complex multi-sensor readings including optical dissolved oxygen, turbidity, and various ion-specific electrodes, HydroTerra is your trusted partner.

Marketplace & Rental



Product Sales

Most suitable equipment and consumables for customer applications

Rental Services

Short-term monitoring equipment supply

Workshop, Support & Training



Workshop

Scheduled maintenance, calibration services and repairs in HydroTerra's Workshop.

Webinars and Training

held regularly to facilitate education



Field Services

Site Collection



Undertaking field measurements and analysing collected samples in a lab



Site Data Management

Generating publishable quality coded data files of known provenance



Site Reporting

Reporting on the sites operational and environmental compliance



DataStream™

Monitoring Systems



System Design

Developing monitoring plan and monitoring system design



System Specification

Specifying measurement points, equipment choices and data reporting



System Supply

Sourcing best software, hardware, hosting and telco options



Configure and Test

On selected systems design, calibration and alarm setup



System Install

Building and installing monitoring and sampling systems onsite.



System Oversight

Overseeing the monitoring system to ensure measurements are being captured and reported.




System Maintenance

Implementing the maintenance programs scheduled and unscheduled needs.



System Training

Deliver training programs to site operators enabling in-house maintenance and reporting.



Measure smarter with the right
handheld water quality meter.

Contact HydroTerra
Today!

sales@hydroterra.com.au
(03) 8683 0091
hydroterra.com.au