



Water Quality Instruments

Rugged reliability, intuitive software, and confidence your sensors will be accurate from calibration to field deployment, regardless of the conditions. . .so you can focus on what really matters – getting the job done right.

In-Situ® Inc. is a leading manufacturer of in-situ (on-site) water monitoring instruments for groundwater and surface water applications. Since 1976, we have provided water monitoring markets with innovative solutions, like the smarTROLL™ Handheld System with the industry's first smartphone application for environmental monitoring. While we're known for high-accuracy water quantity and quality instrumentation, we also have an expanding portfolio of products and services, including a full-solution offering for decision-quality data via easy integration with our cellular telemetry and cloud-based HydroVu™ Data Services platform.

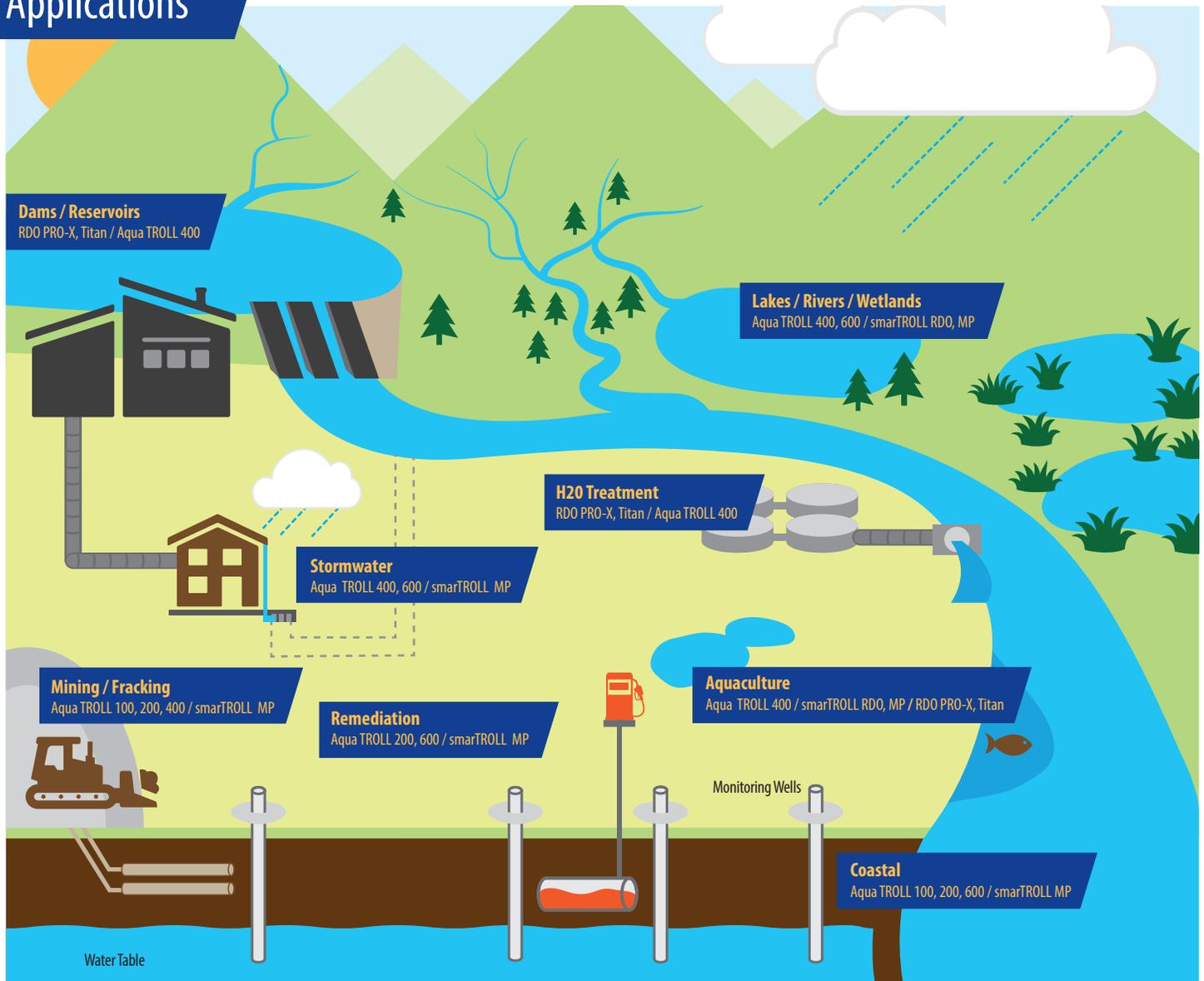
Our growing water quality platform has been engineered for maximum reliability and minimum hassle. Internal data logging, extended battery life, drift-resistant sensors, and active and passive antifouling systems are some of the features that ensure years of performance in fresh and

salt water applications, meaning you have a lower total cost of ownership and fewer trips to the field. Plus, our customizable, data-ready sondes don't require costly adapters or proprietary communication protocols. Our instruments, telemetry systems, and data services platform were built for easy integration and user-friendly operation — access to your data has never been this easy.

Our team of experts is ready to help you find the right solution for your project, and our support team is always standing by to offer complimentary 24/7 technical support and mobile help in the field. We're also happy to rent our equipment to you — fully serviced, calibrated, and ready to go.

Call or click to learn more: www.in-situ.com, sales@in-situ.com, 800-446-7488 or 970-498-1500.

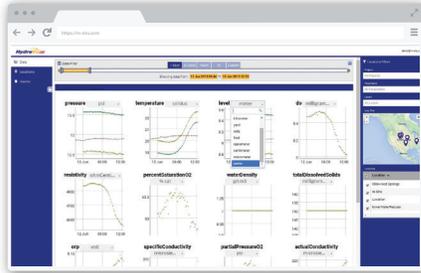
Applications



Remote Monitoring Solutions

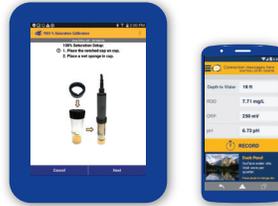
Data Services

HydroVu™
The data you need, how you want it.



In-depth data analysis

VuSitu™

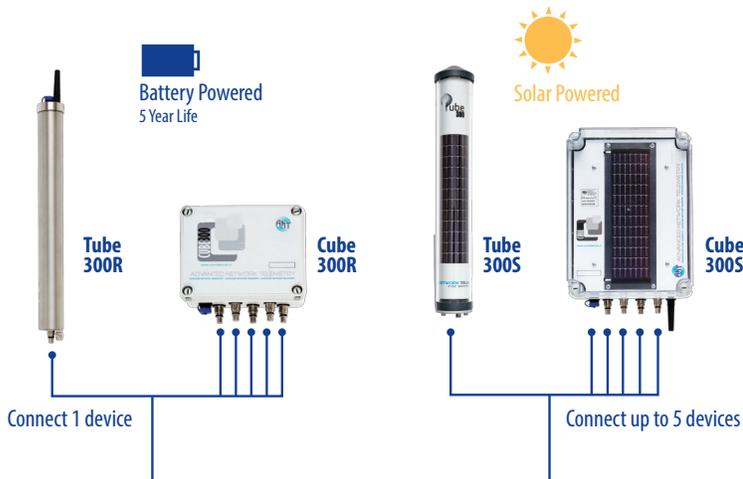


Mobile data access

HydroVu™ Data Services:

- Organize multiple projects and instruments in one cloud-based location.
- Secure, real-time access to decision-quality data anywhere, anytime.
- Simplify the task of filtering data for important results.

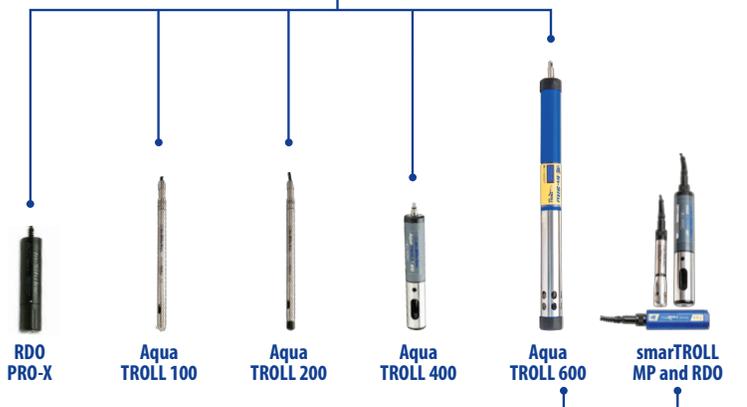
Wireless Telemetry



Wireless Telemetry:

- Economical and secure wireless monitoring systems for real-time site feedback.
- In-device alarms, plus automated data, barometric pressure compensation, tampering, and malfunction alerts.
- Compact designs for in-well or networking, depending on your unique monitoring deployment.

Instruments



Water Quality Instruments:

- Field-ready durability with accurate results in fresh and salt water applications.
- Easy-to-use spot checking handhelds with mobile device technology.
- Long-term monitoring probes with extended battery life and stable sensor technology.

*Similar solutions are also available for our Water Level Instruments.

Aqua TROLL® Instruments

Aqua TROLL® 100 Data Logger

Measures and records conductivity and temperature. Compact construction fits any deployment, and titanium electrodes and housing protect your data by preventing corrosion.

- Sub-1 inch diameter
- Full range conductivity with optimum accuracy – 5 to 100,000 $\mu\text{S}/\text{cm}$
- Sealed to withstand pressure of up to 500 psi
- Flexible communication protocols (4-20 mA, SDI-12, RS-485)



Aqua TROLL® 200 Data Logger

Measures and records water level, pressure, conductivity, and temperature. Compact construction fits any deployment, and titanium electrodes and housing protect your data by preventing corrosion.

- Sub-1 inch diameter
- Full range conductivity with optimum accuracy – 5 to 100,000 $\mu\text{S}/\text{cm}$
- Vented (gauged) or non-vented (absolute) pressure measurement
- Dynamic density compensation for accurate pressure measurement



Aqua TROLL® 400 Multiparameter Probe

Compact and durable multiparameter process probe that continuously measures 12 water parameters in a variety of applications. Standard suite of six sensors measure actual and specific conductivity, salinity, total dissolved solids, resistivity, density, optical dissolved oxygen, ORP, pH, temperature, water level, and water pressure.

- DO readings automatically compensate for salinity
- Versatile power options and real-time readings (non-powered and non-logging)
- Modbus/RS485 or SDI-12 protocols
- Real-time data access with a radio, controller, data logger, sampler, telemetry system, or SCADA/PLC system



Approved optical RDO sensor

Aqua TROLL® 600 Multiparameter Sonde

Customizable, powerful, and portable multiparameter sonde suitable for all applications. Internal power and data logging. Low power consumption with replaceable Alkaline D batteries for 9+ month life. Base sensor configuration includes EPA-approved optical RDO, pH/ORP, turbidity, conductivity, temperature, and pressure.

- Vented (gauged) or non-vented (absolute) pressure measurement
- LCD display for visual indication of overall probe functionality
- Sub-2 inch active and passive antifouling system with cleanable conductivity
- Wireless communication with smartphone interface



Approved optical RDO sensor

Handhelds and Process Probes

smarTROLL™ Multiparameter Handheld

Combines industry-leading water quality sensors with revolutionary smartphone mobility. Real-time data is transmitted wirelessly to your smartphone or tablet, allowing you to email and share data on the spot.

- Automatically compensates measurements for barometric pressure and salinity
- Mobile App makes data gathering and calibrations simple and fast
- Automatic data collection and reporting for low-flow groundwater sampling



- **Chemical parameters:** Optical dissolved oxygen, conductivity, pH, ORP, salinity, total dissolved solids, resistivity, and density
- **Physical parameters:** Air and water temperature, barometric pressure, water level, and water pressure



Approved optical RDO sensor

smarTROLL™ RDO® Handheld

Measures and records optical dissolved oxygen, air and water temperature, and barometric pressure. Data is transmitted wirelessly to your smartphone or tablet. Virtually no training required, and no calibration needed.

- Email and share real-time data on the spot
- Battery Pack with replaceable batteries (iOS) or rechargeable Power Pack (Android)



- Site tagging with photos and GPS coordinates
- RDO Fast Cap provides fast response for spot checking applications and reduces time in the field



Approved optical RDO sensor

RDO® PRO-X Optical Dissolved Oxygen Probe

Measures optical dissolved oxygen and temperature using optical technology in process applications. No calibration, conditioning, or membranes required.

- Most accurate and rugged optical DO sensor on the market
- Only probe with diagnostic tools to evaluate sensor health



- Flexible communication protocols (4-20mA, Modbus/RS485, and SDI-12)
- Standard 10m cable or twist-lock options in custom cable lengths



Approved optical RDO sensor

RDO® Titan Process Probe

Measures optical dissolved oxygen and temperature in process applications. Robust optical sensor requires no membranes and only minimal maintenance and calibrations.

- Most accurate DO probe on the market
- Titanium construction prevents corrosion in saline environments



- Long-lasting and easily replaceable smart sensor cap
- Custom cable lengths available



Approved optical RDO sensor

Key Features and Accessories



Antifouling

Prevents fouling from occurring around the probe's sensing area in coastal environments and high-fouling sites with a dual-sided wiper or specially formulated copper guard. Improve the accuracy of your data and extend the length of your deployment.



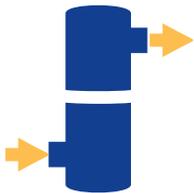
Internal Data Logging

Internal data logging for continuous monitoring. Does not require an external data logger.



Internal Battery Power

Replaceable alkaline or internally sealed lithium battery power for frequent fast sampling or long-term deployments. No external power required.



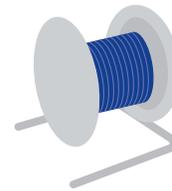
Low-Flow Systems

Use your smartphone or tablet to automate the collection of well and pumping information, monitor and record the stabilization of key water quality parameters, and automatically generate calibration and sample reports to conform to federal and regional regulations.



RDO Fast Cap

The fastest responding optical RDO sensor on the market, specifically designed for spot checking applications. When the cap expires, simply snap it off and pop on a new one.



Rugged Cable System

Durable, long-lasting cables come in custom lengths and provide real-time data communication. Manufactured to endure harsh environments, they deliver high-accuracy, precision, and reliability for years. Patented twist-lock connectors provide easy attachment and detachment and protect your investment.



Telemetry Capable

Get real-time feedback from your instruments with cellular device reporting and in-device alarms from the Tube and Cube Telemetry system. Features include 5+ year battery life, IP68 waterproof rating, optional in-well deployment, automatic barometric compensation, and optional built-in solar panels.



Mobile App Functionality

With the iSitu™ Mobile App for iOS™ and the VuSitu™ Mobile App for Android™, there's no need for expensive, bulky handheld computers to read your sensors. Use your smartphone or tablet to quickly find and recognize each of your sites, and instantly view, download, and share data.