

AND DATA TO BE ACCURATE AND RELIABLE, WATER MONITORING FOUIPMENT EVERY TIME, FROM WITH IN-SITU, YOU TRUST YOUR WATER

WE'RE IN THE FIELD 24/7, TO FLOW, TELEMETRAND AND DATA SERVICES, WE'VE GOT YOU OUALITY AND LEVEL, LINOG NOX OS HAVE TO BE. COVERED.

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SALES AND RENTAL SOLUTIONS

Total Solution Easy Integration Full Support





COMPLETE PROJECT SOLUTIONS

There's a perfect solution for your water monitoring equipment needs, and we're here to help you find it. From aquifer characterization and remediation, to energy, mining, and research, In-Situ is known for innovating reliable, top-quality water monitoring solutions that reduce field visits and equipment costs. We're committed to the customer experience. Your project deserves the best equipment and support, and we understand that every job is unique. You'll find the total solution for any project or budget with In-Situ's durable, field-tested flow, water quality and water level monitoring equipment.

We are the Manufacturer

Our team of experts is here for you - every step of the way. Most of our rental equipment is built by our factory technicians at our Fort Collins, Colorado factory, and an on-site rental facility ensures you receive the best-maintained equipment in the industry. All rental equipment is thoroughly cleaned, decontaminated, calibrated, and factory-certified to ensure proper operation on the job site, every time.

- Calibration Every purchased or rented instrument is calibrated by factory technicians at our facility to give you the most reliable data possible.
- Maximum reliability We've engineered our growing line of products to minimize hassle. Internal data logging, extended battery life, drift-resistant sensors, and active and passive antifouling systems are just some of the features that ensure years of performance in fresh or saltwater applications.
- **Inventory** We maintain a large selection of the newest equipment and technology, tested, double-checked, and ready for quick turnaround.
- Data services From telemetry to data services, our knowledgeable team will work with you to select the right equipment to meet your data and budget requirements.

Total Support

- 24/7 technical and application support Included with rentals or purchases to keep your project running smoothly by giving you the answers you need, when you need them.
- Same day shipping With our large inventory of In-Situ and third-party equipment on-hand, you can order by 2 p.m. (MT) for same day shipping on purchases, and 4 p.m. (MT) for next day delivery on rentals.
- Complimentary equipment consultations Minimize time spent researching project needs. Let us guide you through the equipment selection process so you get the right equipment for the job.



WE MAKE SURE EVERY INSTRUMENT IS PROPERLY MAINTAINED AND CALIBRATED TO THE HIGHEST POSSIBLE ACCURACY. WE'RE HERE FOR YOU FROM THE FIELD TO THE OFFICE, MAKING GATHERING AND REPORTING DECISION QUALITY DATA EASIER THAN EVER BEFORE.



Easy Integration

While we're known for high-accuracy water level and quality instrumentation, we're also expanding our portfolio of products and services to simplify the process of gathering decision-quality data via easy integration with:

- Tube and Cube Cellular Telemetry Systems Wirelessly send data anywhere to any email account or ftp server you wish and real-time parameter threshold alerts keep you updated on important changes.
- HydroVu Data Services Our cloud-based platform gives you up-to-date access to your data while simplifying the task of filtering the data for important results. Easy setup, viewing, and analysis of data means you get more from you instruments for less time and money.
- VuSitu and iSitu Mobile Apps Industry-leading Android and iOS smartphone apps eliminate the need for bulky, expensive, handheld meters. Simplify data collection and sharing, and tag sites with photos and GPS coordinates.
- Win-Situ software Our intuitive software offers a simple and painless experience for setting up your instrument and retrieving data logs.



CUSTOMIZED SOLUTIONS FOR YOUR APPLICATION

From professional-grade level data loggers, multiparameter water quality instruments, cables, water level tapes, telemetry, handhelds, sampling pumps, flow and many accessories, we offer the equipment needed for a broad range of environmental monitoring projects.

Don't just take our word for it...

"I have rented from In-Situ for over 6 years and I have confidence that equipment from their rental pool will arrive in good working condition. They have a comprehensive decontamination and maintenance program that I have come to trust." - Stephen F.

"The biggest thing is that the equipment is in good shape and working order, and that it's properly maintained. We've used equipment from other places that came to us and it didn't work right. That costs us more than anything because you have something planned, and then have to shut it down for a couple days due to equipment failure." - Ryan A.

GROUNDWATER MANAGEMENT

- AQUIFER CHARACTERIZATION PUMP AND SLUG TESTING
- LONG-TERM MONITORING
- AQUIFER STORAGE AND RECOVERY MANAGEMENT
- SALTWATER INTRUSION TRACKING

WATER QUALITY ANALYSIS

- \bullet NPDES PERMITS AND STORMWATER OUTFALL MONITORING
- TMDL PROGRAMS
- LAKE AND RESERVOIR PROFILING

REAL-TIME GEOCHEMICAL MONITORING

- ISCO, ISCR, BIOSPARGING, NATURAL ATTENUATION
- SOIL VAPOR EXTRACTION
- LOW-FLOW GROUNDWATER SAMPLING





IN-SITU RENTAL OPTIONS

There are several reasons you might consider renting environmental sampling equipment: maybe it just makes more sense to rent equipment for a project rather than buy it, or perhaps you want to try the product before you make the commitment. Whatever the reason, and whatever the project, consider the following benefits of going directly to the manufacturer for environmental equipment rentals:

- It's reliable Renting directly from the factory means you're guaranteed to get the best-maintained equipment in the industry. You will receive equipment that is ready to work as hard as you do, which means you can focus on collecting accurate data instead of troubleshooting equipment problems.
- It's quick Call by 4:00 p.m. MT and your equipment will be on your doorstep or jobsite the next morning. Rentals are available for days, weeks, or months at a time. Large rental? Need a high volume of a specific product? No problem! We maintain a huge inventory of water level and water quality testing equipment and supplies for immediate shipment.
- It's easy From product selection to technical support, application specialists are ready to provide their expertise so you get the equipment and support you need. We don't just ship instrumentation - we provide solutions.

- and used equipment that meet all factory specifications.
- Fixed monthly rate based on the term of rental.
- Maintenance and repair is included in your fixed rate during the rental period.
- Simplify budgeting with no upfront capital costs or amortization for your project.

Long-Term Discount

- Long-term options are available if you don't want to purchase the equipment. Inquire about available discounts to improve your project's bottom line.
- Consult with our knowledgeable team to find both rental and purchase options for your unique large projects.

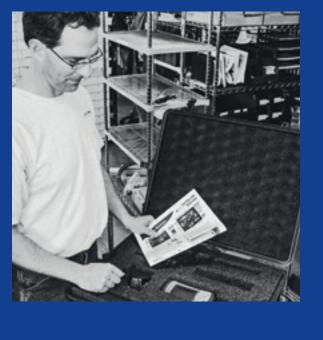
Prepaid Rental Returns

- Easy returns with pre-paid return shipping. Simply attach the pre-paid label to your package and take it to your nearest shipment center.
- Available to U.S. customers only.

RENT



For current U.S. rental pricing, please email sales@in-situ.com or visit go.in-situ.com/rental-pricing.





FACTORY SERVICE

Reliable Calibration by the Experts

As an instrument ages, a factory recalibration can return it to original factory specifications. It's more than just a calibration check, In-Situ's professional calibration service always includes an initial overall evaluation of the instrument. Calibration is performed with standards traceable to the National Institute of Standards and Technology (NIST®) where applicable. The standard and specific calibration procedure for each instrument and cable type includes pressure and temperature testing in environmental test chambers and some minor repair

Extended Warranty Programs**

Level TROLL Instrument Extended Warranty Programs

- 1 Year Extended Warranty (total 2-year warranty)...\$102
- 2 Year Extended Warranty (total 3-year warranty)...\$135

Agua TROLL Instrument Extended Warranty Programs

- 1 Year Extended Warranty (total 2-year warranty)...\$175
- 2 Year Extended Warranty (total 3-year warranty)...\$270
- 3 Year Extended Warranty (total 4-year warranty)...\$354

Agua TROLL 500/600 Extended Warranty Programs

- 1 Year Extended Warranty (total 2-year warranty)...\$495
- 2 Year Extended Warranty (total 3-year warranty)...\$995
- 3 Year Extended Warranty (total 4-year warranty)...\$1,495

Calibration Services Pricing Schedule

Aqua TROLL® 100/200 Instrument Calibration

Includes operational checks, firmware upgrades, and calibration of conductivity and pressure sensors to original factory specifications...100/\$219 & 200/\$278

Aqua TROLL® 500/600 Instrument Calibration

Calibration of factory-installed sensors (temperature and pressure) includes operational checks, hardware upgrades, calibration, and testing plus replacement of dust caps, filters, desiccants, and batteries as needed...\$338

Level TROLL® Instrument Calibration

Includes operational checks, firmware upgrades, and calibration of pressure sensor to factory specifications...\$219

Includes operational checks, calibration, testing, and replacement of dust caps, filters, and desiccants as nee'ded...\$289

7-Day Service Policy*

Preparing for your next project and want to ensure that equipment is working properly? Let In-Situ service technicians tune up your instruments. With quick turnaround times, you'll be prepared for your next deployment. If we don't ship your instrument back on the seventh day after approval/preapproval*-all service is free.

- * For complete details on our service policy, please read the U.S. Return Materials Authorization form available at www.in-situ.com/Return authorization
- ** Extended warranty programs must be purchased within 1 year of instrument purchase. Special maintenance program pricing available only while instrument is under warranty. Prices are subject to change without notice.

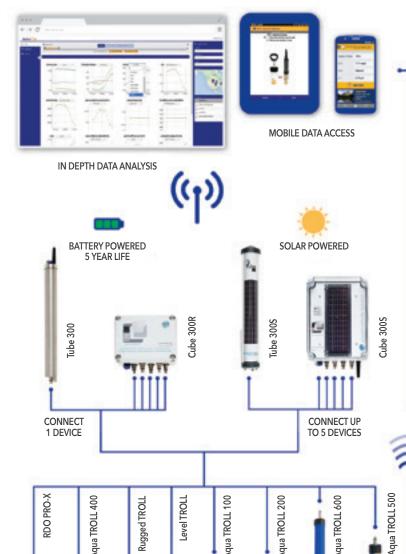


SALES AND RENTAL SOLUTIONS

SALES AND RENTAL SOLUTIONS







REMOTE WATER MONITORING SOLUTION

Simple, user-friendly experience is at the core of everything we do, and we make sure to maintain that in both our hardware and software. Our instruments, telemetry, and data services platform were designed to work together. Even the most junior person on your staff can setup and get the data you need, every time.

As you review this catalog, use the Key Features and Accessories guide (right) for finding an instrument for your application. For our latest offerings, spec sheets, technical notes, and videos, visit us at www.in-situ.com.

DATA SERVICES HydroVu™ Data Services:

- Organize multiple projects, users 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

- Economical and secure wireless monitoring systems for real-time site feedback. Pulse and 4-20 mA options.
- 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 Monitoring Instruments:

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

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.

RDO FAST CAP

The fastest responding optical RDO sensor on the market, specifically designed for spotchecking 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 systems. Features include 5+ year battery life, optional in-well deployment, automatic barometric compensation, and optional built-in solar panels.



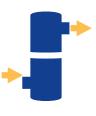
INTERNAL BATTERY POWER

Replaceable alkaline or internally sealed lithium battery power for frequent fast sampling or longterm deployments. No external power is required, although it is an option (except on Rugged TROLL 100).



INTERNAL DATA LOGGING

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



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.



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.



INTERNAL MEMORY

Internal 4 MB memory stores up to 250,000 data points, and 2 MB memory stores up to 120,000 data points.



NARROW DIAMETER DESIGN

Compact design fits narrow diameter wells. Sub-1 inch diameter instruments measure 0.72 inches (1.83 cm), and sub-2 inch instruments measure 1.03 inches (2.62 cm).



BLUETOOTH COMMUNICATIONS

Integrated Bluetooth means fewer cables, simple setup, and quick data log downloads.



SPECIALIZED LOGGING MODES

Advanced logging modes for specialized applications. In addition to linear, fast linear, and event, these products also include step linear, linear average, and true logarithmic modes.

1-800-446-7488 (toll-free in U.S.A. and Canada) · 1-970-498-1500 (U.S.A. and international)



WATER LEVEL MONITORING

Water Level Loggers, Level Meters & Monitoring System



Water Level Loggers/LevelMeters/Monitoring Systems

WATER LEVEL MONITORING



	C 100+	
GE Una Readings	1,000 00 000177 Maring	
Pressure	DAK per	0
Temperature	2439 10	0
Depth	101.16	0
Actual Conductivity	120.00 plane	0
Specific Conductivity	125.27 plane	0
Salvely	cos rov	0
Total Document States	000 per	0
% Sta	rt Recording	
d	0 D	



WE OFFER A VARIETY OF ACCURATE, RELIABLE WATER

- Rugged TROLL Com. Consolidate all site information on your Android™ device, and tag data with site photos and GPS
- Log data to your smartphone or tablet and download results in a standard .html file format, or integrate with Tube/Cube Telemetry Systems and cloud-based Hydro Vu Data Services for real-time data access and reporting.
- Save time and reduce errors with the intuitive Win-Situ PC Software platform. Quickly program data loggers, download data, graph results, and more.
- logarithmic log as the test progresses. To streamline pump tests, rent the Virtual HERMIT® Aquifer Testing Kit, offered
- Win-Situ requires: Microsoft® Windows® 2000 Professional SP4 or higher, Windows® XP Professional, Windows® 7, Windows 10 or Windows Vista®; and Google Chrome,

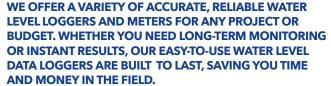


PUT THE RIGHT INSTRUMENT TO WORK **FOR YOU**

Our passion for water level testing equipment means you'll find the durability and reliability you need for your application. Use our quick reference application quide below to find the right instrument for your project. Still not sure what you need, or have a special project? Our team of equipment experts are standing by ready, willing and able to help you find the right solution.

APPLICATIONS

- SLUG AND PUMP TESTS
- LONG-TERM MONITORING AND RESOURCE MANAGEMENT
- NON-VENTED (ABSOLUTE) SENSORS
- VENTED (GAUGED) SENSORS

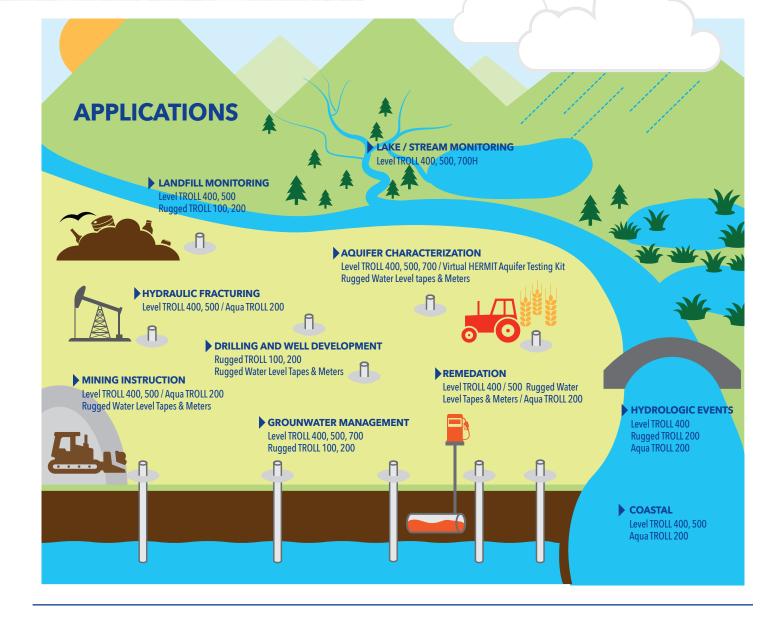


Easy-to-Use Software Included

Set-up, control, and manage data from your instruments using the included PC, mobile software, control and telemetry

- Connect wirelessly to your data loggers through the VuSitu Mobile App and Wireless TROLL Com or Wireless coordinates.

- Multi-step pump test function allows you to restart a exclusively through In-Situ Rentals.
- Firefox, or Internet Explorer®.





WATER LEVEL SOLUTIONS

trouble-free operation.

complete reliability.

Industry-leading water level monitoring backed by 40 years of performance. Level TROLL instruments yield accurate level,

You'll find an instrument suited to every application and budget.

• Telemetry and SCADA Readiness - No adapters or confusing

proprietary protocols required. Instruments include integrated

• Ultimate Flexibility - RuggedCable® Systems with titanium

• Intuitive Software Interface - Each Level TROLL comes with

twistlock connectors provide "lock" tight connections.

Detach and extend RuggedCable lengths with

Win-Situ®5 Software, featuring setup wizards for every application and user. Also compatible with VuSitu Mobile

NIST®-traceable calibration report is provided with each instrument.

• Rugged Construction - Durable stainless steel or titanium housing,

removable nose cone, and more integrated features ensure years of

• Superior Accuracy - An extensive, full scale pressure and

temperature calibration is performed and a serialized,

Modbus/RS485, SDI-12, and 4-20 mA outputs.

software when using the Wireless TROLL Com.

pressure, and temperature measurements, along with powerful data logging and flexible communications.

WATER LEVEL

WATER LEVEL

Level TROLL® 700 Data Logger

ITEM # LT700



Key Application

• Wireless TROLL Com

• Telemetry and HydroVu

• Rugged Cable Splitter

Accessories

S PURCHASE

Key Application

Accessories

S PURCHASE

Key Application

Mining/Construction

Hydraulic Fracturing

• Wireless TROLL Com

• Telemetry and HydroVu

• Lakes/Rivers/Wetlands

Aguifer Characterization

• Groundwater Management

Remediation

Accessories

• Cables

Desiccant

• Level Tapes • RCS

Coastal

Cables

Desiccant

• RCS

• Lake/Stream Monitoring

Aquifer Characterization

• Wireless TROLL Com

• Telemetry and HydroVu

Cables

Desiccant

Aguifer Characterization

• Groundwater Management





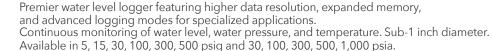












• Available in pressure ranges up to 1,153 ft (351 m) for vented and 2,274 ft (693 m) for non-vented

- Fully sealed, all titanium construction and sensors
- Automatic atmospheric compensation (vented models only)
- Advanced logging modes

RENTAL INCLUDES: Win-Situ® Software and manual. RuggedCable® System not included.

Level TROLL® 700H Data Logger

ITEM # 0089550



















- Available in vented (gauged) configuration up to 35 ft (11 m)
- Fully sealed, all titanium construction and sensors
- Automatic atmospheric compensation
- Advanced logging modes

RENTAL INCLUDES: Communication cable, Win-Situ® Software, and manual. RuggedCable® System not included.

Level TROLL® 500 Data Logger

ITEM # 0072200-90





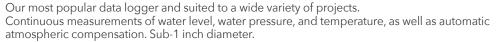












- Available in vented (gauged) pressure ranges up to 1,153 ft (351 m)
- Fully sealed, all titanium construction and sensors
- Flexible communication protocols (4-20 mA, SDI-12, RS-485)
- Low-power batteries last 10+vears

RENTAL INCLUDES: Wireless TROLL Com, Win-Situ® Software, and manual. RuggedCable® System not included

* Typical battery life when used within the factory-calibrated temperature range

Level TROLL® 400 Data Logger

ITEM # LT400

S PURCHASE

Cin-Situino. LINETROLL'

• Fully sealed, all titanium construction and sensors

Rugged TROLL® 200 Data Logger

• Titanium body with Delrin nose cone and backend

• Flexible communication protocols (4-20 mA, SDI-12, RS-485)



Measures and logs water level, water pressure, and temperature in a maintenance free system.

RENTAL INCLUDES: Communication cable, backshell hanger, Win-Situ® Software, and manual.

Measures and logs water level, water pressure, and temperature in a maintenance-free

RENTAL INCLUDES: Backshell hanger, docking station, Win-Situ® Software, and manual.

system ideal for long-term monitoring at flood-prone or high humidity sites.

• Available in non-vented (absolute) pressure ranges up to 250 ft (76 m)

• Download data via telemetry system, Rugged TROLL Docking Station,

Wireless Rugged TROLL Com, or direct-read cable (sold separately)

Our most economical option for measuring and logging water level,

• Available in non-vented (absolute) pressure ranges up to 250 ft (76 m)

Ideal for long-term monitoring at flood-prone or high humidity sites. Sub-1 inch diameter.

• Available in non-vented (absolute) pressure ranges up to 1,120 ft (341 m)









• Mining/Construction

 Hydraulic Fracturing Groundwater Management

Key Application

Remediation

Coastal

Hydrologic Events

Accessories

• Cables

• Wireless TROLL Com

• Telemetry and HydroVu

• Pumps • Level Tapes

• RCS

S PURCHASE

ITEM # 091930-50

n-Situ Inc.

Ceramic pressure sensor

Suspension wire is not included.

• Low-power batteries last 10+ years

RuggedCable® System not included.











• Landfill Monitoring • Groundwater Management

Hvdrologic Events

• Drilling/Well Development

Key Application

Accessories

- Level Tape
- Cable
- Wireless Rugged TROLL Com

S PURCHASE PURCHASE RENT

• HydroVu

Rugged TROLL® 100 Data Logger

Titanium body with Delrin nose cone and backend

or Rugged TROLL Docking Station (sold separately)

• Download data via Wireless Rugged TROLL Com and cable,

* Typical battery life when used within the factory-calibrated temperature range

In-Situ Inc.

water pressure, and temperature.

Suspension wire is not included.

• Ceramic pressure sensor

ITEM # 0091870-90











• Groundwater Management

• Drilling/Well Development

Accessories

- Level Tape
- Wireless Rugged TROLL Com
- Suspension Wire







RENTAL INCLUDES: Backshell hanger, docking station, Win-Situ® Software, and manual.

WATER LEVEL

WATER LEVEL

Virtual HERMIT® Aquifer Testing Kit









Streamline aguifer characterization events by renting the Virtual HERMIT Testing Kit, exclusively available from In-Situ Rentals. Use the kit to conduct step-drawdown and constant-rate pump tests using the the Virtual HERMIT Software for easy data management.

- Monitor an entire well field up to 15 wells
- Simultaneously configure, start, display, step, or stop all connected instruments
- Allows data downloads while tests are running
- Capture pump and recovery data on the same log without reprogramming

RENTAL INCLUDES: Virtual HERMIT Software and TROLL Com. Level TROLLs and RuggedCable® System required.

* Typical battery life when used within the factory-calibrated temperature range

BaroTROLL® and Rugged BaroTROLL® **Data Loggers**

ITEM # 0071870





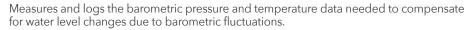








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- Use the BaroTROLL with non-vented (absolute) LevelTROLL 400 and 700, or Aqua TROLL 200
- Titanium construction and 10-year internal battery
- Use the Rugged BaroTROLL with non-vented (absolute) Rugged TROLL 100 and 200 Data Loggers
- Software post-corrects multiple data logger files from a single unit

RENTAL INCLUDES: TROLL Com, backshell hanger, Win-Situ® Software, and manual. RuggedCable® System not included.

PXD - 261 Transducer

ITEM # PXD-261













Measures water pressure with 4-20 mA output for easy connection with data loggers and controllers. This durable water pressure sensor is available in vented (gauged) pressure ranges up to 576 ft (175 m) or non-vented (absolute) pressure ranges up to 231 ft (70 m).

- Sub-1 inch diameter for easy fit
- Flexible quick-connect cables
- 316 Stainless steel construction
- Vented and non-vented options

RENT

Key Application

- Aquifer Characterization
- Step-Drawdown Tests • Constant-Rate Pump Tests
- Dewatering Projects
- Environmental Assessments
- Groundwater Development Remediation

Accessories

- Virtual Hermit Software
- Desiccant
- Level Tape
- Cables









- Remediation
- Coastal
- Mining/Construction
- Lakes/Rivers/Wetlands
- Landfill Monitoring Hydraulic Fracturing
- Aquifer Characterization
- Groundwater Management
- Hydrologic Events

Accessories

- Cables
- Wireless TROLL Com
- Baro Merge







Key Application

- Mining/Construction
- High Pressure Piping
- Long-Term Monitoring
- Municipal and Industrial
- Packer Installations

Accessories

- Level Tape Cables
- HydroVu

RuggedCable® Systems Product Highlights



RuggedCable Systems are custom-built to endure harsh environments and to last for years. Use RuggedCable Systems with:

- Level TROLL® 400, 500, and 700 Instruments Aqua TROLL® 100, 200, 400, 500 and 600 Instruments
- RDO® PRO-X (twist-lock models)
- Con TROLL® PRO System
- TROLL® Net Hub
- Tube and Cube Telemetry Systems

DURABLE RuggedCable SYSTEMS INCLUDE:

- Titanium twist-lock connectors for quick, reliable connections (2-year warranty)
- Kellems® grip for secure instrument deployment
- Small desiccant for vented systems

CUSTOMIZE YOUR CABLE

When ordering, consider the following options:

- Vented (gauged) or non-vented (absolute) cable
- Polyurethane or Tefzel® cable jacket • Customized lengths up to 1,219 m (4,000 ft)
- Twist-lock termination (female connector) on one or both cable ends
- Other custom cable configurations are available-call us for details
- Plastic or steel reel

OPTIONAL ACCESSORIES

- Large desiccant for high-humidity environments This desiccates 20 times more saturated air than the small desiccant. Use desiccant with all vented systems.
- Titanium cable extenders are used to extend cable lengths
- Rugged Cable Splitter (Vented and Non-Vented)





Water Level Tapes 02

WATER LEVEL

WATER LEVEL

Water Level Meter 100

ITEM # 0082700+





Economical water level meter with a Kevlar-reinforced polyethylene tape and stainless steel conductors. Comes standard with static and drawdown modes.

- Submersible stainless steel
- Nylon or aluminum reels (for tapes longer than 150 m or 400 ft)
- Accuracy to each millimeter or 0.01 foot
- Available in lengths up to 600 m (2,000 ft)
 Sensitivity dial filters out false signals from falling water
- Drawdown mode

RENTAL INCLUDES: Carrying bag.

Key Application • Remediation

- Mining Construction
- Aguifer Characterization
- Groundwater Management
- Drilling and Well Development



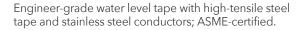
S PURCHASE RENT





Water Level Meter 200

ITEM # 0082820+



- Sensitivity dial filters out false signals from falling water
 Accuracy to each millimeter or 0.01 foot
- Available in lengths up to 600 m (2,000 ft)
- Drawdown mode

RENTAL INCLUDES: Carrying bag.

Key Application

- Remediation
- Mining
- Construction
- Aguifer Characterization
- Groundwater Management
- Drilling and Well Development

Rugged Oil-Water Interface Meter

ITEM # 0059150+



- Remediation
- Mining

Key Application

- Construction
- Aguifer Characterization
- Groundwater Management • Drilling and Well Development

PRODUCT HIGHLIGHT

Accurate Tapes



Black graduations printed indelibly into surface



Black graduations printed beneath jacket ASME Certified (EU Class II)

Black graduations printed beneath jacket ASME Certified (EU Class II)

Submersible Probes

RENTAL INCLUDES: Carrying bag.

Economical water level meter with a Kevlar-reinforced

Sensitivity dial filters out false signals from falling water
Removable, sealed electronic module

polyethylene tape and stainless steel conductors.

Comes standard with static and drawdown modes.



Conductivity/Level/Temp Probe

Stainless steel probes are pressure rated to the full length of the tape. A security link prevents tape damage by releasing the probe if it becomes stuck in a well (not available on Conductivity



Components 1- Battery Box

- 2- Signal LED
- 3- Signal buzzer
- 4- Sensitivity knob for cascading water (not an on/off switch)
- 5- Test button
- 6/7- Panel attachment knobs

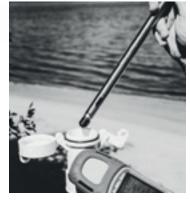


Meter).



When used in coastal environments and high-fouling sites, the TROLL Shield Antifouling Pressure Sensor Nose Cone combats biofouling of a Level TROLL 400/500/700 or Aqua TROLL 200 nstrument.

Reduced sensor fouling extends instrument deployments by up to 6 weeks and improves instrument accuracy. For best performance, replace the nose cone every 12 months



Groundwater monitoring in a coastal zone using Aqua TROLL® 200 Instrument. Learn more about the Aqua TROLL 200 on page 28.







WATER QUALITY MONITORING

Water Quality Multiprobes, Sondes, Handhelds and CTDs Monitoring Equipment



Water Quality Monitoring Equipment **WATER QUALITY MONITORING**

OUR WATER QUALITY EQUIPMENT IS DESIGNED TO GIVE YOU FIELD-READY DURABILITY WITH ACCURATE **RESULTS YOU CAN TRUST. WHETHER YOU NEED TO** MEASURE DISSOLVED OXYGEN, CONDUCTIVITY, TURBIDITY, PH OR ANOTHER PARAMETER, WE'VE GOT YOUR WATER QUALITY TESTING NEEDS COVERED.

WATER QUALITY SOLUTIONS

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. Our instruments, telemetry systems, and data services platform were built for easy integration and user-friendly operation.

- Minimal maintenance and field time Drift-resistant sensors, long-lasting battery power, and corrosion-resistant design support long-deployments. Reliable data logging and plenty of memory mean less trips to the field.
- More accurate data High-accuracy sensors come factory calibrated to give you the most reliable data possible. Our water quality smart sensors store information internally, maintaining data and calibration within the sensor for traceable results.
- Quick and easy data-sharing Get real-time data access and instant results that can be emailed on the spot using your mobile device. Intuitive VuSitu Mobile App is an all-in-one software package that provides auto-configuration, simplified calibration, directed data analysis, and automated report creation.
- Built-in support: Access free, 24/7 tech support right from the mobile app.

Wireless Communication with **Smartphone Interface**

With the $VuSitu^{TM}$ and $iSitu^{®}$ Mobile App 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.

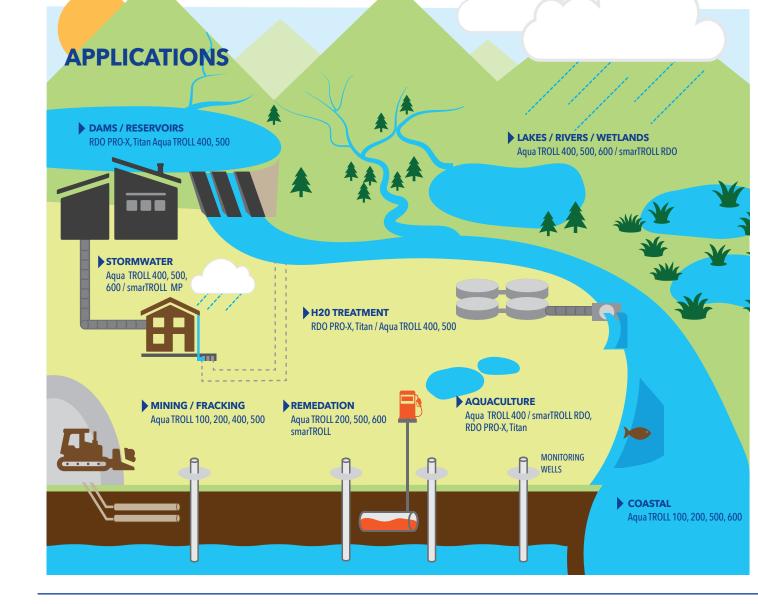
- Systems include a compact probe with field-tested smart sensors and a weatherproof clip-on battery pack with Bluetooth® Wireless Technology.
- Mobile App simplifies data collection and guides you through configuration, calibration, setup, and data management.
- Real-time results can be emailed from the field, logged to a mobile device, or exported on the spot.
- Both mobile apps are free to download.

For current U.S. rental pricing, please email sales@in-situ.com or visit go.in-situ.com/rental-pricing.

FIND THE RIGHT INSTRUMENT **FOR YOUR PROJECT**

We are driven by our passion to deliver the best water quality instruments in the industry. Our growing water quality line includes a variety of sensors: conductivity, pH, oxidation-reduction potential (ORP), optical dissolved oxygen (DO), turbidity, temperature, pressure, barometric pressure, and ion-specific parameters such as ammonium, chloride, and nitrate.

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.



WATER QUALITY

WATER QUALITY

AquaTROLL 500 Multiparameter Sonde

ITEM # 0071970+





This cost-effective multiprobe combines highly stable sensors with automated wireless or wired data collection. Use this rugged instrument as a spot-checking handheld with our VuSitu Mobile App, or easily connect to HydroVu or control system for long-term monitoring.

- Interchangeable and wet-mateable sensors
- LCD display shows instrument health and wireless connectivity
- Automatic environmental compensation and simplified calibration
- Base sensor configuration: RDO, pH/ORP, turbidity, conductivity, temperature and pressure, salinity, resistivity, total dissolved solids and density

RENTAL INCLUDES: TROLL com, calibration solution, and VuSituMobile App.

Aqua TROLL® 400 Multiparameter Probe

ITEM # AT400













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

Aqua TROLL® 200 Data Logger

ITEM # AT200











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.

- Full range conductivity with optimum accuracy 0 to 100,000 μS/cm
- Sub-1 inch diameter
- Vented (gauged) or non-vented (absolute) pressure measurement
- Dynamic density compensation for accurate pressure measurement

RENTAL INCLUDES: Conductivity calibration solution, calibration vessel, and Win-Situ ® Software.







Key Application

- Lakes / Rivers / Wetlands
- Aquaculture Stormwater
- Remediation

Accessories

- Battery Pack/Power Pack • Calibration Solutions
- Android
- HydroVu Telemetry





PURCHASE

Key Application

- Hydraulic Fracturing
- Stormwater
- Lakes / Rivers / Wetlands
- Aquaculture • Dams / Reservoirs
- Water Treatment

Accessories

- Calibration solution
- RuggedCable
- Android
- HydroVu
- Telemetry



S PURCHASE PURCHASE



www.in-situ.com

Key Application

- Remediation
- Coastal
- Mining
- Hydraulic Fracturing

Accessories

- Water Level Tape
- Calibration solution
- RuggedCable
- Communications cable HydroVu
- Telemetry

Agua TROLL® 600 Multiparameter Sonde

ITEM # 0074030+









APPROVED OPTICAL



Coastal

 Stormwater • Lakes/Rivers/Wetlands

Accessories

- Wireless TROLL Com
- RuggedCable Desiccant
- Antifouling Restrictor
- Calibration Solutions
- Low-Flow Kit
- Telemetry/HydroVu

USE AN ANDROID DEVICE WITH THE VUSITU MOBILE APP FOR INSTANT, **REAL-TIME DATA FROM**

YOUR AQUA TROLL 600.



Flexible water quality sonde with smartphone interface. Suitable for all applications.

Customizable, powerful, and portable multiparameter sonde suitable for all applications. Internal power and data logging. Low power consumption with replaceable alkaline D batteries for up to 9+ month life. Base sensor configuration includes EPA-approved optical RDO method, pH/ORP, turbidity, conductivity, temperature, and pressure. Ammonium, Chloride, and Nitrate sensors also available. Wireless Bluetooth® connection to the VuSitu Mobile App for Android or Win-Situ 5 for PC/laptop.

Wir-Situ

Compatible with low-flow system (sold separately). See page 31

Features

- Sensor diagnostics
- Sub-2 inch passive and active antifouling system for all sensors, including cleanable conductivity
- Vented (gauged) or non-vented (absolute) pressure measurement
- Site tagging, GPS coordinates, and calibration functions through the VuSitu Mobile App
- LCD display for visual indication of overall probe functionality and battery, sensor, and log status
- Internal memory plus an integrated micro SD card for data backup and download • RuggedCable options in Poly or Tefzel for use in harsh environments
- Field-tested design with corrosion-resistant housing
- Dynamic density compensation

Benefits

- Customize to your needs Flexible instrument that can be configured and modified based on the unique requirements of each site. Wet-mateable connectors and universal sensor ports allow you to change sensors on the fly, so you can monitor the parameters you need for each job.
- Minimal maintenance and field time Drift-resistant sensors, long-lasting battery power, and corrosion-resistant design support long-deployments. Active and passive antifouling systems reduce cleaning requirements and extend the life of your investment. Reliable data logging and plenty of memory mean less trips to the field.
- Get more accurate data High-accuracy sensors come factory calibrated to give you the most reliable data possible.

RENTAL INCLUDES: Communication cable, backshell hanger (for absolute units), Quick Cal solution, and Win-Situ® Software. RuggedCable® System not included.

Handhelds and Process Probes 03

WATER QUALITY

S PURCHASE

WATER QUALITY

Aqua TROLL® 100 Data Logger

















- Sub-1 inch diameter
- Full range conductivity with optimum accuracy 0 to 100,000 µS/cm
- Sealed to withstand pressure of up to 500 psi
- Flexible communication protocols (4-20 mA, SDI-12, Modbus)

RENTAL INCLUDES: Conductivity calibration solution, calibration vessel, and Win-Situ ® Software.

Key Application

- Coastal
- Mining
- Hydraulic Fracturing
- Groundwater management

Accessories

- Water Level Tape
- Calibration solution
- RuggedCable
- Communications cable
- HydroVu
- Telemetry





smarTROLL RDO® Handheld













• Lakes / Rivers / Wetlands

Accessories

- Android Phone/iPod
- Power Pack/Battery Pack

• Site tagging with photos and GPS coordinates

and reduces time in the field

RENTAL INCLUDES: VuSitu, iSitu® Software.

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)

• RDO Fast Cap provides fast response for spot checking applications

Measures and records optical dissolved oxygen, air and water temperature,

and barometric pressure. Data is transmitted wirelessly to your smartphone or tablet.

RDO® PRO-X Optical Dissolved Oxygen Probe

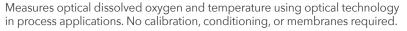
ITEM # RDOPRO











- Most accurate and rugged optical DO sensor on the market
- Only probe with diagnostic tools to evaluate sensor health
- No cap timeout
- Flexible communication protocols (4-20mA, Modbus/RS485, and SDI-12)
- Standard 10m cable or twist-lock options in custom cable lengths

Key Application

- Aquaculture

- Calibration Solutions

S PURCHASE

- Aquaculture
- Dams/Reservoirs
- Water Treatment

Accessories

- Anti-fouling guard

RDO® Titan Process Probe

• Most accurate DO probe on the market

• Custom cable lengths available

RuggedCable ® System not included.

ITEM # TITAN

ITEM # 0066820





Aquaculture • Dams/Reservoirs • Water Treatment

Accessories • Calibration Solutions

Key Application

- Power Pack/Battery Pack
- HydroVu
- Telemetry
- Cable
- ConTROLL Pro







Key Application

- Groundwater monitoring and sampling
- Remediation

Accessories

- Sampling pumps and supplies
- Water level tapes

Key Application

- HydroVu
- Telemetry







www.in-situ.com

Measures optical dissolved oxygen and temperature in process applications. Robust optical sensor

RENTAL INCLUDES: Communication cable, calibration solution, Win-Situ ® Software, and manual.

prevents back flow at the outlet.

recognize calibration standards

PRODUCT HIGHLIGHTS EPA-Approved RDO Technology Method

RENTAL INCLUDES: Flow cell, 3/8 in. barbed inlet/outlet fittings, 3/8 in. 3-way ball valve, 3/8 in. check valve, 1/4 in. barbed inlet/outlet fittings, 1/4 in. 3-way ball valve, 1/4 in. check valve,

Rigorous, independent third-party validation proves that the RDO Sensor performs to its specifications over long-term deployments. Compared to high-maintenance sensors,

• Real-time data and instant data-sharing

• Site tagging with photos and GPS coordinates

• Auto-calibration functions and smart sensors that

Kit contains everything you need to conduct low-flow

groundwater sampling with the Aqua TROLL 600 Multiparameter Sonde and VuSitu Mobile App. Low-Flow sampling equipment

oxygenation prior to analysis. The 3-way intake valve can be used

to divert flow for sample collection. The anti-siphon check valve

is used to direct the flow of water past the sensors of the Agua

TROLL 600 during purging and low-flow sample tests. The

seal between the instrument and the flow cell prevents water

requires no membranes and only minimal maintenance and calibrations.

• Titanium construction prevents corrosion in saline environments

• Long-lasting and easily replaceable smart sensor cap

Agua TROLL 600 Low-Flow Kit

Pipe thread tape, flow cell stake and instruction sheet.

• Improves performance and reduces maintenance

• Maintains its calibration for long-term deployments

• Responds quickly and provides stable, accurate readings

the RDO Sensor:

• Excels in hypoxic conditions

04 FLOW MONITORING

Control system, telemetry and Flow Sensors



FLOW MONITORING

S PURCHASE

Kev Application

• Sewer lift Stations

measurement Road culvert flow

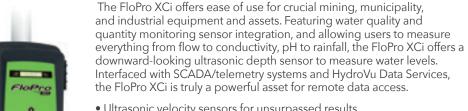
measurement Open channel flow

measurement

• Stormwater monitoring

• Partially full pipe flow

FloPro XCi



- True average velocity measurement with MASP Technology
- Connectivity to In-Situ sensors

INCLUDES: Rugged, field-prepared and waterproof encasement, easy-to-read data logger and LCD display, battery, solar panel/regulator, required cards to begin operating, velocity and level sensors.

Access cards





S PURCHASE

- Groundwater monitoring

- Irrigation flume and weir
- River pump and weather station monitoring
- Access cards



Key Application

- Dairy farm lagoon waste
- Lateral irrigation diversion
- Irrigation siphon
- monitoring



AgriFlo XCi



Vital farm equipment and on-farm sensors require steady, reliable monitoring and that's precisely what the AgriFlo XCi delivers. The AgriFlor XCi monitors diverse inputs such as irrigation flows, farm wastewater, water quality, dam levels, soil moisture, and pump and engine management systems. With no moving parts, the AgriFlo XCi offers minimal obstruction to your water flow. Waste-filled water won't hinder the AgiFlo's meter, sparing you time lost in the field and revenue spent on repairs.

- Multi-card and multi-sensor application
- Budget-friendly flow monitoring
- Remote and instant access to data via MACE WebComm and HydroVu Data services
- Easy, out-of-the-box installation to your existing pipework

INCLUDES: Rugged, field-prepared and waterproof encasement, easy-to-read data logger and LCD display, battery, solar panel/regulator, required cards to begin operating, velocity and level sensors.

HyrdoMace XCi



When data logging and telemetry for environmental monitoring is key, the HydroMace XCi offers unrivaled versatility, in a diverse range of monitoring applications from flumes to flow, weirs to water quality sensors.

- Encased and integrated data logger, powered by solar regulator and battery Rugged, weather-ready encasement
- Multi-card, multi-sensor application
- Applicable with nearly any environmental sensor
- Remote data access with WebComm and HydroVu Data; configure to FloCom+ Software
- SDI Sensor interface and built-in flume and weir equations

INCLUDES: Rugged, field-prepared and waterproof encasement, easy-to-read data logger and LCD display, battery, solar panel/regulator, required cards to begin operating. Velocity and level sensors sold separately.

S PURCHASE

Key Application

- Environmental flume and weir monitoring
- River weir measurement
- Water catchment monitoring
- Meteorological sensor monitoring
- Access cards



THE IN-SITU SOLUTION

No two water monitoring projects are the same. Your unique project needs rugged, reliable water monitoring equipment that not only delivers accurate results, but also offers numerous project solutions. Our flexible, scalable designs are the perfect partner in multiple applications. In-Situ has earned the reputation of being an innovator in the

HVFlo XCi

HVFlo XCi is the portable waterproof logging flow meter with proven Doppler velocity and level measurement sensors to produce superior results under a wide range of hydraulic operating conditions.

- Ultrasonic velocity sensors for unsurpassed results, even when pipe slope is unknown
- Mu^lti-card, multi-sensor application
 Rechargeable battery offers long-life without costly new ones
- Remote and instant access to data via MACE WebComm and HydroVu Data services

INCLUDES: Rugged, field-prepared and waterproof encasement, easy-to-read data logger and LCD display, battery, regulator, required cards to begin operating. Velocity and level sensors sold separately.



water monitoring field, bringing unsurpassed quality and intuitive

ease of application that results in reduced equipment costs and

Having field-ready and reliable water flow monitoring equipment

at your side is integral to producing the most accurate results.

Whether you're measuring total volume, flow, velocity, or level,

ensures your agriculture, wastewater, or industrial operation

open channels or closed pipes, our flow monitoring equipment

needs are met. Our unique monitoring systems offer you flexible

site monitoring in a ruggedly designed and lockable enclosure.

monitoring systems afford you complete control to log multiple

With battery, solar panels, and multi-card interface, our intelligent

time spent in the field.

Flow Monitoring Systems

sensors from a single and remote device.

S PURCHASE PURCHASE





Key Application

- Wastewater monitoring
- Stormwater monitoring
- Industrial discharge applications • Inflow and infiltration studies
- Pump station monitoring
- Sewer system capacity analysis Compliance metering
- Combined sewer overflow



FLOW MONITORING

FLOW MONITORING

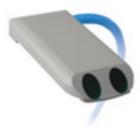
FLOW SENSORS

Featuring Doppler ultrasonic sensors for XCi devices, our flow sensors transmit ultrasonic waves of sound in the water flow for precise monitoring. Acoustic waves are then reflected via air bubbles and/or suspended solids that are detected by our sensors.

Doppler Ultrasonic Velocity Sensor

The Doppler Ultrasonic Velocity Sensor measures open channels or full pipes when pipe access is available and can be emptied for installation or maintenance. The sensor offers ease of access to monitoring points, measuring speed of dirt, bubbles, and other stream flow

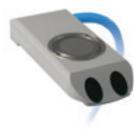
- Easy-to-install application for existing pipework with ZX SnapStrap MASP technology
- Regular and irregular operating cross-section operation
- Rugged design to withstand challenging hydraulic conditions



Doppler Ultrasonic Area/Velocity Sensor

Our Doppler Ultrasonic Area/Velocity Sensor offers measurement capabilities in both open channels or partially-full measurement depths and velocity. Featuring a capacitive pressure diaphragm to gain these measurements, access to monitoring points is required for both installation and maintenance.

- Doppler card
- Polycarbonate ZX SnapStrap for sensor pipe installation
- Ultrasonic sensors to "see" particles in water
- Compatible with HydroMace



EchoFlo

Featuring Digital Signal Processing (DSP), the EchoFlo offers level measurement in a compact, field-friendly space. The EchoFlo's compact size allows it to be implemented in a variety of applications.

- Shows obstacles using advanced surface imaging
- Affords maximum fill in small pipes and tanks
- Measures dirty media without affecting performance
- Simple, easy-to-configure functionality



Doppler Ultrasonic Insert Velocity Sensor

When used in conjunction with an EchoFlo ultrasonic depth sensor, the Doppler Ultrasonic Insert Velocity Sensor is used for full or partially full pipes.

- No moving parts to evade blockages and worries
- Easy-to-install 2" ball valve
- Able to be completely submerged
- Perfect for dirty or animal waste-laden water







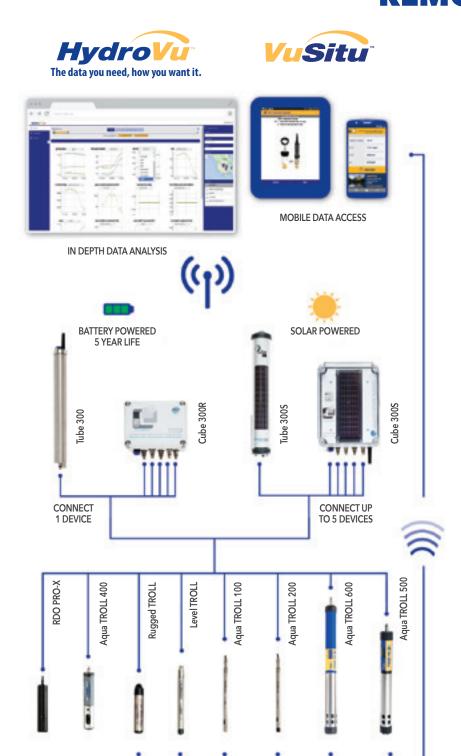
FloPro

REMOTE MONITORING

Remote Water Level & Water Quality Monitoring



REMOTE MONITORING



- ACCESS YOUR DATA ANYTIME, ANYWHERE.
- CONTROL PROJECT COSTS BY MINIMIZING TRAVEL TO DISTANT SITES.
- GET INSTANT ALERTS AND KNOW EXACTLY WHAT'S HAPPENING AT ANY MOMENT.

DATA SERVICES HydroVu™ Data Services:

- Organize multiple projects, users 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

- 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.



INSTRUMENTSWater Monitoring Instruments:

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



VuSitu™ and iSitu Mobile Apps

Real-Time Decisions

at customized intervals.

Real-Time Data/Real-Time Decisions/Real-Time Support

REMOTE MONITORING

- Quickly respond to user-defined field events or to tampering.
- Automatic alarm notifications are sent to your email or phone via text message.

• Receive automatic data log uploads to your email, FTP site, or other current data management platform

• Never miss a data point. The system recognizes missed data and sends that data on the next transmission.

• Significantly reduce site visits. Receive system status updates, diagnose problems, and perform preventative and corrective maintenance from your office.

VuSitu™ and iSitu Mobile Apps

With the VuSitu[™] Mobile App 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.

- Systems include a compact probe with field-tested smart sensors and a weatherproof clip-on battery pack with Bluetooth® Wireless Technology.
- Mobile App simplifies data collection and guides you through configuraion, calibration, setup, and data management.
- Real-time results can be emailed from the field, logged to a mobile device, or exported on the spot.
- Site information can be consolidated on a mobile device, and data can be tagged with site photos and GPS coordinates.

www.in-situ.com

• The VuSitu and iSitu Mobile Apps are free to download.





• Easily integrate systems into HydroVu Data

RELIABLE DATA ACCESS

monitorina.

thresholds.

Real-Time Data

cloud-based location.

In-Situ offers reliable access to remote site data 24 hours a

long-term aquifer monitoring, stream and tide gaging,

Tube and Cube Telemetry Systems

day. Our wireless telemetry systems and data servicesplatform

are designed for remote monitoring applications, including

flood warning, storm surge monitoring, and real-time water

For in-well deployments and low-profile installations, choose

the battery-powered Tube 300R. For higher sampling, choose

the solar-powered Tube 300S. For sites that require multiple sensors, choose the battery powered Cube 300R or the solar-

powered Cube 300S. Connect up to five instruments to one

Cube. Both the Tube and Cube Systems offer data logging and transmission, and alarm notifications for parameter

Services for real-time evaluation of site data and conditions.

• Organize multiple sites, users, and instruments in one

REMOTE MONITORING

REMOTE MONITORING







HydroVu® Data Services

ITEM # HYDROVU

S PURCHASE PURCHASE



Get real-time, decision-quality data on your remote monitoring sites anywhere, anytime, with HydroVu Data Services. HydroVu gives you up-to-date access to your data while simplifying the task of filtering the data for important results. Easy setup, viewing, and analysis of data means you get more from your instruments for less time and money. Integrate with In-Situwater level, quality, flow and telemetry systems for real-time feedback on all of your water monitoring sites. Includes up to 10,000 user-defined locations to associate with telemetry devices; up to 1,000 user-defined project groupings; and up to 250 user-defined labels.

Visit https://in-situ.com/products/data-management/hydrovu-data-services/ to request a live demonstration.

Features

- Interfaces with In-Situ telemetry and sensors natively
- Data access and backup at all times
- Store data for as long as you need it
- Turnkey advanced setup option simply connect your hardware and log in to see your data
 Rapid Zoom enables instant focus on the timeframe of data you want
- Customizable alarm notifications reported via email

Benefits

- Multiple methods for getting to the data you want Rapidly narrow your view by location, parameter, user-defined labels, or project.
- Make informed decisions Gather and analyze decision-quality data in real-time, when it's most useful.
- Stay organized Keep track of all your projects and instruments in an organized, central location. Get the latest information on all your sites without having to leave your desk.
- User management Assign and customize access based on individual users.
- Save time and money Spend less time manipulating data into your desired format, and reduce trips to the field by accessing your data fromremote locations quickly and easily.
- Reduce risk Regularly view and analyze your data to limit potential problems with your instruments, and minimize data gaps when issues do arise by receiving rapid notifications.

Instrument Pairings

- Level TROLL 400, 500, 700 and 700H
 • Rugged TROLL 200
 • Aqua TROLL 100, 200,
- 400, 500 and 600
- RDO PRO-X
- HVFlo • FloPro
- AgriFlo
- HydroMace

Telemetry Pairings

- Tube 300R and 300S
- Cube 300R and 300S



HydroVu



REMOTE MONITORING

REMOTE MONITORING

Tube 300R And Cube 300R Telemetry System

ITEM # 0062000+





- Sub-2 inch diameter
- Data logging and transmission
- Automatic barometric compensation
- Pulse input



to five instruments on a cellular network, automating data collection and providing remote configuration and troubleshooting.

telemetry unit ideal for wells with multiple sensors

or sites with multiple wells. Transmits data for up

The Tube 300R in-well cellular telemetry system

The Cube 300R is a compact, battery-powered

is capable of sending data from a single instrument.

RENTAL INCLUDES: Battery pack and 512 MB SD

Key Features

- 5+ year battery pack

S PURCHASE PURCHASE



Cube 300S And Tube 300S Telemetry Systems

ITEM # 0062030+



Solar powered telemetry systems. Cube 300S is capable of sending data from up to five instruments while the Tube 300S is an ideal unit for high frequency in-well sampling. Integrate with HydroVu Data Services to simplify the task of filtering data for important results.

RENTAL INCLUDES: Battery pack and 512 MB SD Card.

Key Features

- Integrated solar panels with rechargeable battery
- Data logging and transmission Alarm notifications for
- parameter thresholds, malfunction and tampering
- 2G and 3G units available
- Pulse and 4-20 mA

flexible and expandable site monitoring all housed in a rugged lockable enclosure. Battery, solar panels, and the unique multiple card interface enable you to control and log multiple sensors remotely from a single XCi device. Systems are ready to go right out of the box, and easily integrate with existing water quality and quantity instrumentation, as well as telemetry,

data servers, and HydroVu Data Services.

The TROLL Link 201 Telemetry System transmits

The Iridium Satellite network is optimal for extremely

Controller with local display and data logging options

monitoring locations. Low-voltage relays trigger a bell

or flashing light, while high-voltage relays can control

up to two instruments. Available in AC Model for local

AC-L Model for local SCADA/PLC control, which logs,

field deployments, which logs, displays, and transmits

data (low-voltage relays only, runs on batteries or solar).

SCADA/PLC control, which displays and transmits data;

displays, and transmits data; and DC-L Model for remote

that helps simplify process control and continuous

monitoring projects. Use for local installations with

SCADA/PLC integration, or use it for remote field

pumps or gates. Each Con TROLL PRO connects

real-time data via the Iridium Satellite network.

remote sites with no cellular signal.

MACE XCi flow monitoring systems provide smart,

Key Features

- FloPro XCi: wastewater,
- stormwater and industrial flows • AgriFlo XCi: agricultural water and wastewater flows

S PURCHASE PURCHASE PURCHASE

- HydroMace XCi: environmental monitoring and data logging
- HVFlo XCi: portable flow meter for wastewater, stormwater and industrial discharge

TROLL Link 201 Telemetry System

MACE XCi Flow Monitoring Systems

ITEM # 0051840

ITEM # 0062240



S PURCHASE

Key Features

- Remotely configure the telemetry system
- Real-time alarm notifications
- Powers attached instruments

Con TROLL PRO Process Controller

🕾 In-Situ Inc.

ITEM # CTP



S PURCHASE

Key Features

- Communication options include Modbus/RS485 and 4-20 mA
- Data transfer via Bluetooth® Wireless Technology
- Vented (gauged) or non-vented
- (absolute) pressure measurement
- Dynamic density compensation for accurate pressure measurement

TROLL Net Hubs

ITEM # NETHUB



Connects up to four or eight instruments into your telemetry or SCADA/PLC system. The hub is ideal for long-term remote site monitoring and process control, including applications like aquifer characterization and nested well monitoring. You can customize the system by linking a variety of In-Situ sensors, and even connect multiple hubs to network up to 16 devices. The Net Hub supports twist-lock or stripped-and-tinned cables.



PURCHASE

Key Features

- Low power consumption (8-36 VDC)
- Solar or 9 V battery power • Each cable has a max
- length of 4,000 feet (1,219 m)
- Modbus/RS485 communications protocol (no SDI-12 or 4-20 mA)









Environmental
Monitoring System
Accessories



ACCESSORIES



EVERYTHING YOU NEED TO COMPLETE THE JOB. FROM PUMPS AND PIDS TO **CALIBRATION SOLUTIONS** AND EXTRA CABLES, YOU'LL FIND IT HERE.

- **Key Accessories** • Device communication
- Deployment equipment • Batteries
- Calibration solutions and kits
- Maintenance
- and replacement parts

 Desiccant
- Antifouling
- Low-flow kits
- Well accessories & pumps

CUSTOMIZED SOLUTIONS

We want to help you get the job done, from start to finish.
We stock of full line of accessories ready to ship so you can get started on your project faster and with less hassle.
Whether you purchase new equipment, rent, or rent-to-own, our Sales and Rental Teams will assist you.

A limited selection of our accessories is included in this catalog. For our full offering of accessories, please visit www.in-situ.com.



Android Tablet

Use with the VuSitu App and the Rugged TROLL, Level TROLL, Aqua TROLL and smarTROLL instruments.



Wireless TROLL Com

Provides wireless communication between Rugged TROLL, Level TROLL, Aqua TROLL and smarTROLL instruments and a PC/laptop or mobile device. #0031240



TROLL Communication Device

Connect a Level TROLL or Aqua TROLL to a PC. Direct-connect (USB) or Cable connect (USB), #0056150



ACCESSORIES



Wireless Rugged TROLL Com

Provides wireless communication between a cabled, deployed Rugged TROLL 100 or 200 and a PC/laptop or Android mobile device. #0031220



iPod Touch - 32 Gb

Use with the iSitu App and the smarTROLL MP or smarTROLL RDO Handheld for instant, real-time data. #0071890



Rugged TROLL **Direct-Read Cable**

Connect a Rugged TROLL 200 Data Logger or Rugged BaroTROLL Data Logger directly to a computer or other logger. #0087300+



Rugged TROLL Docking Station

IP68-rated iPhone5

shock-proof and waterproof

iPod Touch Case

Dirt-proof, snow-proof,

up to 6.6 feet (2 m).

#0072110. #0062420

Rugged Cable

Splits off a single female

multiple instruments in

a single water column.

Vented and non-vented.

twist-lock connector to attach

an In-Situ instrument; chain

Splitter

#0095500

Program and download data from a Rugged TROLL 100 or 200 Data Logger. #0091970 USB



Tube-Cube Computer **Setup Cable**

Programs a Tube or Cube Telemetry system. #0063540 ÚSB, #0062260 serial



Communication Device Kit

Connects a stripped-and-tinned RDO PRO-X Probe, RDO PRO Probe, RDO Titan, or Aqua TROLL 400 Instrument to a computer. #0081100



Rugged Cable

Provides real-time data communication for In-Situ instruments. #0052000



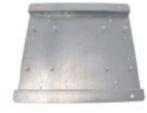
smarTROLL Cable

Connect the smarTROLL Multiparameter Handheld or smarTROLL RDO Handheld Probe to the smarTROLL Battery Pack or smarTROLL Power Pack #0099120+



Suspension Cable

Suspends instruments in deployment areas. #0066470 50 ft (15.24 m), #0066460 150 ft (45.72 m). #0066450 300 ft (91.44 m)



Cube 300S Pole Mounting Bracket

Mount a Cube 300S Telemetry System to a wall. #0062330

www.in-situ.com



Tube 300R In-Well Bail

Secures a Tube 300R inside a well. #0060240



Power Pack/Wireless TROLL Com Charger

Provides power from any wall outlet to a USB cable: #0065780. North American wall outlet only to a USB cable. #0065770



TROLL Battery Pack

Supplements internal battery power for Level TROLL, Aqua TROLL, or BaroTROLL Data Loggers. #0051450



TROLL Replaceable Battery Pack

Replaceable battery pack that supplements internal battery power for Level TROLL, Aqua TROLL, or BaroTROLL Data Loggers. #0090000



smarTROLL Battery Pack for iOS

Supplies power to a smar TROLL probe and communicates wirelessly with an iOS device. #0099110



pH Calibration Kit

Ideal for multi-point calibrations. Contains a set of three NIST-traceable pH solutions for both pH and ORP. #0032080 full range pH only, #0032120 full range pH plus ORP.



smarTROLL Power Pack for Android

Supplies power to a smarTROLL probe and communicates wirelessly with an Android device. #0031230



Tube And Cube 300R ExterNal Antenna

Improve the cellular signal quality received by a Tube 300R deployed inside a well casing. The antenna is installed on the top of the well. #0062240



Tube-Cube Replacement **Battery Pack**

#0062280 Lithium (Tube 300R, Cube 300R), #0062290 Nickel Cadmium (Tube 300S, Cube 300S).



Quick Cal Solution

For fast 1-point calibration checks of pH, ORP, and conductivity on the Aqua TROLL 500/600. #0033250



Dissolved Oxygen Field Calibration Kit

Perform 2-point dissolved oxygen calibrations on Aqua TROLL 400/500/600, and smarTROLL Multiparameter Handheld #0080830 AT600 #75600



Aqua TROLL 500/600 Maintenance Kit

Includes everything you need to keep your Agua TROLL 600 Multiparameter Sonde in excellent condition. #0078940







ACCESSORIES





Cleaning Supplies

Alconox® Powder Detergent (4 lb box) #0029740. LiquiNox® concentrated liquid detergent (1qt.). #0029740



Nitrile Gloves

Powder-free nitrile gloves. 6mm thickness, available in Small through Extra Large sizes. 25 pairs per box #0029700; #0029710; #0029720; #0029730



Desiccant Refill Kit

Replacement desiccant for the large, extra large, and outboard desiccants. #0029140



Large Desiccant (Titanium Connector)

Protects instruments and cables during deployments. #0051810



Agua TROLL 500/600 RDO-X Sensor Cap

Everything you need to replace your RDO-X Cap for the Agua TROLL 500/600 Multiparameter Sonde. #0079790



RDO-X Sensor Cap Replacement Kit

Replace your RDO Cap for the RDO PRO-X Probe manufactured after 1/1/2014. #0088720



RDO Sensor Fast Cap Kit

Replacement for expired RDO Fast Cap for the smarTROLL Multiparameter Handheld or smarTROLL RDO Handheld. #0077700



TROLL Shield Antifouling Conductivity Sensor

Copper conductivity sensor quard. Extends Aqua TROLL 100/200 deployments by up to six weeks. #0085190



Large Desiccant (ABS Connector)

Protects instruments and cables during deployments. #0053550



Extra Large Desiccant (Titanium)

Protects instruments and cables during extended or humid deployments, #0090420



Replacement **Desiccant Bag**

Desiccant pack for enclosures. #0087630



Replacement **Desiccant Tube**

Desiccant tube for enclosures. #0058260



RDO PRO Antifouling Guard

Reduce biological fouling of RDO PRO and RDO PRO-X Probes. #0081300



TROLL Shield Antifouling Pressure Sensor

Copper pressure sensor nose cone combats biofouling and extends Aqua TROLL 200 and Level TROLL 400/500/700 deployments. #0081480



Replacement pH/ORP Sensor

Replacement pH/ORP sensor for the Aqua TROLL 400 and smarTROLL MP Handheld. #0060000



TROLL Shield Complete Antifouling System for Aqua TROLL 200

Antifouling nose cone and conductivity guard for Aqua TROLL 200. #0085400



Aqua TROLL 500/600 Port Plug

Sensor port plug for the Agua TROLL 500/600. #0063510



Aqua TROLL 500/600 Antifouling Restrictor

Prevents biological fouling from accumulating on the Agua TROLL 500/600 Multiparameter Sonde. #0076100



Aqua TROLL 500/600 Weighted Restrictor

Adds approx. 7 pounds to the overall instrument weight for profiling, deep wells, and high-flow. #0031350



Aqua TROLL 500/600 **Wiper Port Plug**

Wiper port plug for the Aqua TROLL 500/600. #0064630



smarTROLL Multiparameter **Low-Flow Kit**

Everything you need to conduct low-flow groundwater sampling. #0094250



Pumps

Sampling, peristaltic, submersible, and portable bladder pumps available for rent through In-Situ Rentals. #0096350 and more.



Tubing

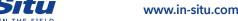
Polyethylene (PE) or Teflon-lined Polyethylene (TLPE) tubing available in 100 or 500 foot lengths. Silicone pump head tubing, size 15; available in 10, 25, and 500 foot (3.04, 7.62, 152.4 m) lengths. (Multiple items)



Geotech Pump Bladder

Replacement Polyethylene (PE) or Teflon-lined Polvethylene (TLPE) 1.66 x 18 pump bladder. Available in singles and as a case of 12 (PE only). #0072340; #0072490; #0072350





ACCESSORIES



Vented Locking Well Cap

2 in. #0020370 4 in. #0020390



Vented Well Cap

Vented well cap for 2 or 4 in. wells. (WELL CAP 2", WELL CAP 4").



Expandable Locking Well Cap

2" #0029760; 3" #0029770; 4" #0029780; 6" #0029790; 8" #0029800. TROLL® Quick Link and hanger are sold separately.



Well Dock and Sleeve

Creates a secure anchor point for cables and suspension wires at the top of a well. 2 in. #0004690 4 in. #0004700 6 in. #0020650



Agua TROLL Bail Kit

Includes everything needed to secure an Água TROLL 600 Multiparameter Sonde in a deployment location. #0079780



MiniRAE 3000 W/ **10.6 eV Lamp**

Handheld VOC monitor. #96190



Bailers

PVC, 0.7 x 36 in. #0029830; PVC. 1.5 x 36 in. #0029840: Polyurethane, 1.5 x 36 in. #0029850; Biodegradable, 1.5 x 36 in. #0029090

MACE Doppler

Ultrasonic Insert

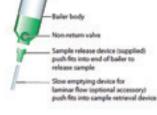
For use in full pipes or partially full pipes when used in

conjunction with a depth sensor.

For use in 4" (100 mm) to 100"

Velocity Sensor

(2500 mm) pipes. See www.macemeters.com



Slow Emptying Device (Voc Tips) For 1.5 Inch Bailer

The Slow Emptying Device attaches to the end of 1.5 in. bailers. #0029080



Global Water Fp111 Flow Probe

Water velocity instrument for measuring flows in open channels and partially filled pipes. #0073030



SELECT AN INSTRUMENT AND LOW FLOW CELL KIT:

Includes: Instrument, flow-through cell with baseplate, Flow-Sense or VuSitu low-flow software, a Windows or Android handheld, cables, QuickCal calibration solution (1), bubbler, and rugged shipping case.



Aqua TROLL 600 Low-Flow Kit

- Conductivity
- pH/ORP • RDO





Aqua TROLL 500

- Conductivity
- pH/ORP
- RDO
- Turbidity



SELECT A LOW-FLOW PUMP:

Centrifugal

• 200' max sampling depth • SS Geosub w/100, 150, or 200 ft cable

Controller

• SS Geosub (120V AC, 2.6A)

Options

- 100 or 500ft of polyethylene (PE) or Teflon-lined PE (TLPE) tubing
- DC/AC inverter

Bladder

- 180' max sampling depth
- 0.675x18 (0.75" wells)
- 0.850x18 (1" wells)
- 1.66x18 (2" wells)

Controller

• Geocontrol Pro controller and 100 psi compressor (12V DC 7.5A, includes battery/charger)

Options

- 100 or 500ft of polyethylene (PE) or Teflon-lined PE (TLPE) tubing
- Additional PE or PTFE bladders

Peristalic

- 27' max sampling depth
- Geopump with easy-load II pump head (12V DC, 6A, includes battery/ charger and 4' of silicone tube)

Controller

• Not required

Options

• 10, 25, or 500ft of silicone pump tubing



SELECT AN AIR QUALITY DETECTOR IF EXPLOSIVE GASES MAY BE PRESENT:

Handheld photoionization detector

• Measures volatile organic compounds (VOC) from 0 to 15,000ppm with < 3 seconds



SELECT ADDITIONAL OPTIONAL ITEMS:

- PE or PVC bailers
- Alconox powdered detergent
- LiquiNox liquid detergent
- Nitrile gloves
- pH/ORP/turbidity/conductivity/DO calibration solutions
- Filters for metals analysis
- Additional Quickcal

For bundle pricing and to place your order, please contact us at the numbers listed below.















APPLICATIONS

Applications & Technical Notes



1 Low-Flow Groundwater Sampling

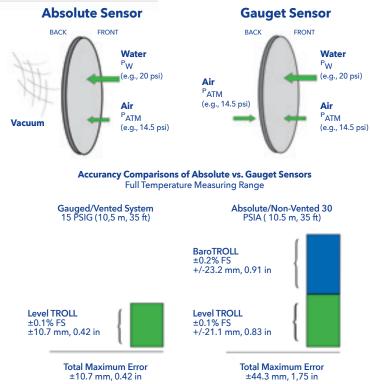
APPLICATIONS



ABSOLUTE SENSORS

Absolute (non-vented) sensors respond to atmospheric pressure and pressure head above the sensor. Measurements are read in psia (pounds per square inch absolute) relative to zero pressure.

- Provide flexibility Non-vented sensors work for all applications, provided that a barometric record is kept and data is post corrected. Instruments may be deployed on suspension wire. When using direct-read RuggedCable® System, you can download data without altering the position of the instrument, thus maintaining consistency over the deployment period.
- Require compensation Compensate for atmospheric pressure with barometric pressure data by using a BaroTROLL® Instrument. Use Win-Situ® Baro Merge™ Software to simplify post correction of data.



FOR A VARIETY OF APPLICATIONS AND ACCURACY REQUIREMENTS, IN-SITU® INC. OFFERS BOTH NON-VENTED (ABSOLUTE) AND VENTED (GAUGED) WATER LEVEL LOGGERS. WE'LL HELP YOU SELECT THE BEST INSTRUMENT FOR YOUR APPLICATION. IN-SITU LEVEL TROLL®, RUGGED TROLL®, AND AQUA TROLL® INSTRUMENTS ARE CALIBRATED OVER THE FULL PRESSURE AND TEMPERATURE RANGE OF THE INSTRUMENT AND SHIP WITH A NIST®-TRACEABLE CALIBRATION REPORT.

Gauged Sensors

Gauged (vented) sensors cancel out the effects of atmospheric pressure fluctuations by applying atmospheric pressure to both sides of the transducer's sensing diaphragm. Measurements are in psig (pounds per square inch gauge) relative to atmospheric pressure.

- Provide accurate results Vented sensors eliminate atmospheric influences from readings in real time. With RuggedCable® Systems, you can download data without altering the instrument's position.
- Save time and reduce errors A system that includes a vented Level TROLL and RuggedCable System eliminates the need to post correct data.
- Require desiccant- For optimum performance and to maintain vented cable, use with desiccant.



LOW-FLOW GROUNDWATER SAMPLING

Save time in the field and simplify sampling events with our accurate water quality instruments and easy-to-use software. Assess water quality over time or get instant results from the field.

Low-Flow Purging and Sampling

Low-flow purging and sampling (ASTM standard D67771) is a well-known method of extracting groundwater samples from a well at a very low rate (less than 500 mL/min) in order to minimize contaminant volatilization and amount of wastewater generated. Once key water quality parameters stabilize, a sample can be taken with the assurance that it is representative of the formation water. Well-defined federal and regional guidelines are in place to ensure consistent sampling procedures and data quality.

The In-Situ Low-Flow Sampling System and VuSitu Mobile App improves sampling efficiency, minimizes errors, and produces professional and defensible reports.

Key Advantages

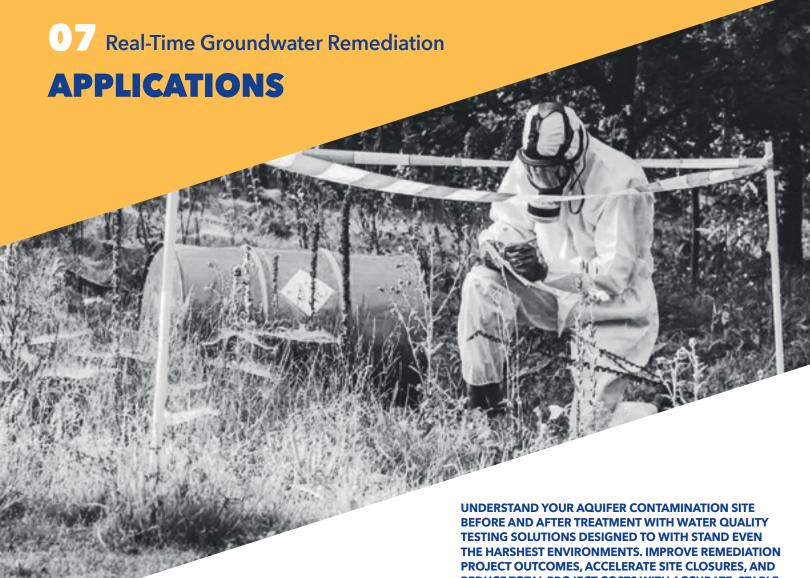
- Automated Test Setup User, site, well, and pump information is retained by the software and can be used at any sampling event. Simply select the sampling location from a pick list at each sampling event and all historical information is available.
- Automated Data Collection Stabilization criteria are set for each monitored parameter and data collection intervals are defined by time or pumped volumes. The software automatically calculates and displays variance during the sampling event.

- Automated Test and Calibration Reports After stabilization, stored data can be exported to Microsoft®Excel®. VuSitu automatically generates full calibration and sample reports that conform to federal and regional regulations. You'll eliminate calculations and transcription errors. Plus, you can customize reports to better meet your clients reporting requirements.
- Mobile App Technology VuSitu is a free mobile app that runs on your Android mobile device. Tag sites with GPS coordinates and photos, run live data polling with mark functionality, and instantly share data and reports via email with key stakeholders.









REAL-TIME MONITORING SOLUTIONS

Rent or purchase equipment from In-Situ for your next remediation project. You'll save time and money by using In-Situ's durable instruments and chemical-resistant RuggedCable® Systems (Tefzel®). Plus, you receive free 24/7 project support.

Monitor SVE, DPE, & Air Sparging System

In-Situ offers two options for tracking vacuum pressure and water level. For the highest level of accuracy, use LevelTROLL 500 or 700 and BaroTROLL® Instruments. To simplify deployment, monitor trends, and reduce costs, choose the sub-2" Aqua TROLL® 600 Multiparameter Sonde with barometric pressure and level sensors.
For air sparging applications that require dissolved oxygen (DO), vacuum pressure, and water level monitoring.

- Measure and log all required parameters.
- Monitor performance indicators in real time.
- Monitor radius-of-influence in real time with the Virtual HERMIT.
- Kit and vented cable extender

REDUCE TOTAL PROJECT COSTS WITH ACCURATE, STABLE INSTRUMENTS THAT PROVIDE REAL-TIME MONITORING.

Track Performance of ISCO, ISCR, & Biosparging Systems

Use the sub-2" Aqua TROLL 600 Water Quality Instrument for in-situ monitoring of remediation progress. The Aqua TROLL 600 includes durable sensors that stand up to harsh

- Measure and log up to 18 parameters with a sub-2" device, including barometric pressure/vacuum pressure, conductivity, DO, pH, ORP, temperature, and water level.
- Improve performance and reduce maintenance with the EPA-approved optical Rugged Dissolved Oxygen (RDO®) Sensor.
- Sonde gives you real-time data access and instant results that can be emailed on the spot using your mobile device and the VuSitu Mobile App.
- Easily integrate with In-Situ telemetry systems and HydroVu Data Services for real-time feedback on all of your remote water monitoring sites.
- Deploy one instrument to save time and money.
- Use Tefzel® RuggedCable® Systems that can be decontaminated and used in harsh environments.

REAL-TIME MONITORING SOLUTIONS - INSTRUMENT SELECTION GUIDE

In-Situ Inc. offers real-time monitoring solutions suitable for most every phase of the site cleanup process. From groundwater sampling and aquifer test equipment for site characterization, to down-well physical and geochemical sensors for injection pilot studies, our systems provide rapid delivery of decision-quality data. Practitioners and stakeholders can reach their remediation goals more guickly, safely, and at a lower cost than with the use of traditional assessment and monitoring approaches.

APPLICATION	DO*	EC	PH/ORP	ТЕМР	TURBIDITY	VACUUM OR BARO PRESSURE	WATER LEVEL	IN-SITU SOLUTION
			CHARACTE	RIZATIO	N AND REME	DIAL INVESTIGATION	N	
DNAPL Thickness								Level TROLL 500
Groundwater Sampling	•	•	•	•	•			Aqua TROLL 600/500 Low-Flow System
Pump Test						•	-	Virtual HERMIT Aquifer Test Kit and BaroTROLL
Slug Test								Level TROLL 500/700
Tidal or Tracer Study				•				Aqua TROLL 200
				SO	URCE TREATN	MENT		
Air Sparging Soil Vapor Extraction	•						•	Aqua TROLL 600
Dual Phase Extraction						•	-	Aqua TROLL 600 or Level TROLL 500 and BaroTROLL
Soil Vapor Extraction						-	•	Aqua TROLL 600 or Level TROLL 500 or Virtual HERMIT Kit with vented Cable Extender
				PL	IME TREATM	ENT		
Enhanced Bioremediation	•	•	•	•		•		Aqua TROLL 400/500/600 or AT400 with Con TROLL PRO System
ISCO/ISCR	•	•	•	•		•	•	Aqua TROLL 400/500/600
Surfactant- Enhanced ISCO	•		•	•	•	•	•	Aqua TROLL 600
Pump-and-Treat	•	•	•	•	•	-	-	Aqua TROLL 600 or Level TROLL 500/700 with Con TROLLPRO System
				LONG	-TERM MONI	TORING		
Groundwater Sampling	-	•	•	•	•			Aqua TROLL 600
Monitored Natural Atteniation	•	•	•	•				Aqua TROLL 600
Pump and Troat	_		_			_		Aqua TROLL 600 or Level

Pump-and-Treat

TROLL 500/700 with Con

TROLL PRO System

APPLICATIONS

Making a Slug

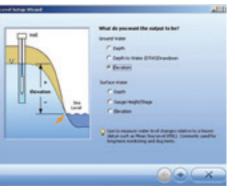
A slug can consist of a solid object that can slide into a well or a known volume of water. A simple way to make a solid slug is to get a section of PVC pipe that will fit down a monitoring well fill it with sand, cap both ends, and put a screw eye on one end. You could also fill a bailer with sand and seal the bailer. Butler (1998) provides additional guidance on designing and conducting a slug test.

AQTESOLV Software for Aquifer

AQTESOLV Software from HydroSOLVE, Inc. is a powerful tool that enhances analysis of data collected from Level TROLL Instruments. Designed to analyze pump and slug test data, AQTESOLV allows for the easy import of data for analysis and curve matching to multiple solutions and aquifer types.

Learn more: www.in-situ.com, sales@in-situ.com, 1-800-446-7488 or 970-498-1500.

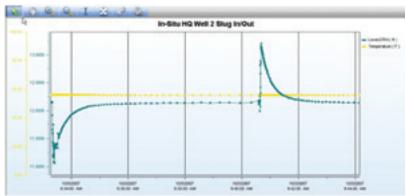




WILLIAM HOW MAN MAN HALL

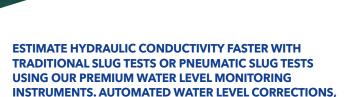


Win-Situ 5 Software wizards help you create a site profile, adjust the level reference, select the parameters of record, and set a logging rate and start time. The software then summarizes your settings for review to ensure your instrument is configured correctly.



Win-Situ® 5 Software allows real-time viewing and graphing of the data as it is being logged to the Level TROLL® Instrument's internal memory. Data is stored and available for analysis within Win-Situ Software or can be exported to other programs.

Data from Win-Situ Software can be exported to AQTESOLV Software for further analysis. AQTESOLV allows the user to select the aquifer model and apply the desired solution (e.g., Bouwer-Rice) to the data. A line is drawn over the data points within the recommended head range.



POST-PROCESSING AND DATA EXPORT HELP STREAMLINE

Win-Situ® 5 Software allows real-time viewing and graphing of the data as it is being logged to the Level TROLL 700 Instrument's memory. Data is available for analysis within Win-Situ 5 Software and can be exported to AQTESOLV Software for further analysis and to apply the desired solution (e.g., Bouwer-Rice) to the data.

DATA ANALYSIS FOR FASTER RESULTS.

Field Equipment

A slug test typically implies that you are only conducting an aquifer test at a single well location. Before you perform a slug test, you will need the following field equipment:

- Measure and log all required parameters. Level TROLL 700 with appropriate length of cable.
- Win-Situ 5 Software running on a laptop computer for
- Level TROLL 700 operation.
- Rugged Tablet.
- VuSitu Moble App.
- Water Level Tape 200.
- AQTESOLV Software.
- Personal protective equipment.

Slug Testing

Slug Testing

APPLICATIONS

Conducting aquifer pumping tests can be expensive and can require significant investments in labor and time. Contaminated water must be treated or transported out of the test area. As an alternative to pumping tests, many hydrologists perform slug tests for the following reasons: to determine estimates of hydraulic conductivity (K), to obtain results more quickly than with a pumping test, to develop small scale studies, to collect very good data in low K layers and to reduce expenses.

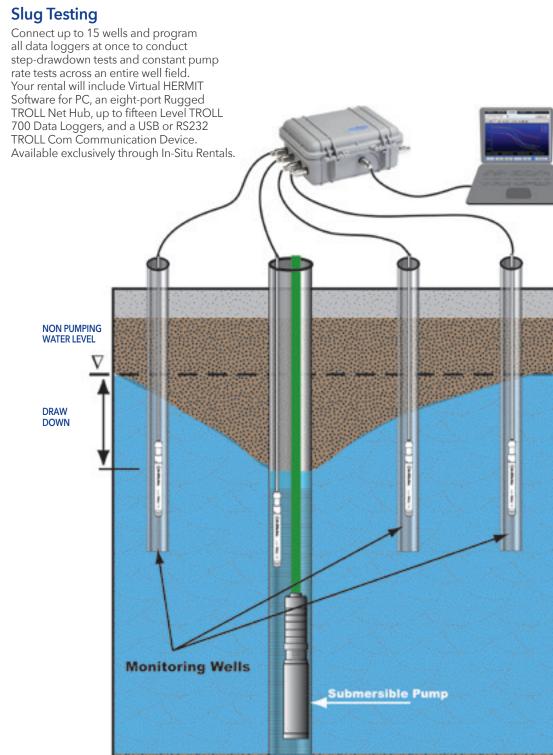
Slug tests require the depression or elevation of static water in a well and the measurement of time it takes to equilibrate. This is accomplished by inserting a slug into a well, causing the water level to rise, or by removing the slug, causing the water level to fall. Time is measured until the water level returns to its original static position. Measurements are logged at an extremely rapid sampling rate, typically as fast as the instrument will allow. Alternatively, a logarithmically decaying sampling rate can be used. A valuable reference for all facets of slug testing is The Design, Performance, and Analysis of Slug Tests by J.J. Butler, Jr. (1998).

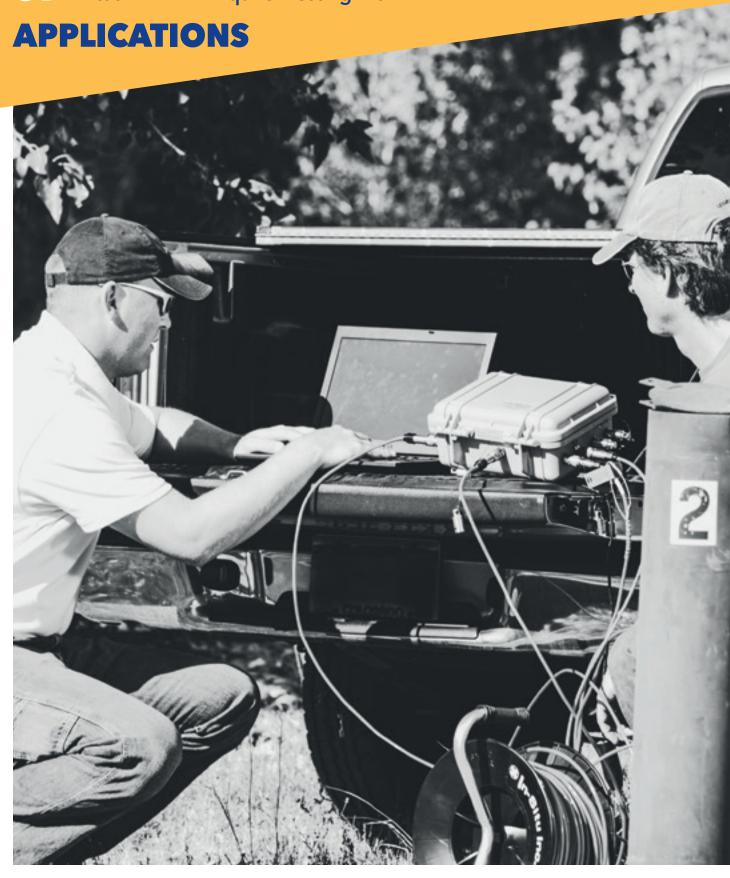
In-Situ offers one of the most accurate and complete ranges of water level instruments on the market today. The Level TROLL 700 Instrument offers Fast Linear (4 times/second), Step Linear, and True Logarithmic sampling rates for slug testing.





APPLICATIONS





RENTAL TERMS & CONDITIONS

Terms, Conditions & Agreement

Rental Period

The rental period begins one business day after shipment of equipment to customer, unless Saturday delivery is requested, in which case billing begins on Saturday. Billing continues through the day before the equipment is received in Ft. Collins, Colorado. In-Situ® Inc. (ISI) does not bill for Saturday and Sunday if the equipment is received by ISI on Monday. In cases where customer picks up equipment from ISI, the rental period starts on the day the equipment is picked up and ends the day of return delivery to ISI. The minimum rental period is one day (24 hours).

Shipment

The customer is responsible for shipping charges in both directions. All instrumentation is examined, checked, and cleaned prior to shipment to assure performance. All equipment is shipped standard Federal Express overnight, unless otherwise specifically stated on the purchase order by the Customer. ISI agrees to ship equipment to Customer in compliance with all applicable federal, state, and local rules, regulations, and procedures. Customer agrees to comply with all applicable federal, state, and local rules, regulations, and procedures when returning equipment to ISI and to return the equipment in its original shipping containers, whenever possible. Department of Transportation (DOT) regulations apply to shipments containing potential hazardous material. ISI may ship equipment containing lithium batteries, considered potentially hazardous by the DOT. These regulations apply for shipments either to the Customer from ISI or from the Customer to ISI. Federal laws provide for penalties if such regulations are not followed. ISI is required

by law to report any violations known to it. Further information about shipping can be obtained from ISI.

Cancellation

Orders that are cancelled less than 24 hours from ship date may be charged a \$100 restocking fee. If an order is cancelled after equipment has been shipped, Customer agrees to pay charges incurred by standard rental period as defined above, plus all shipping charges.

Customer Obligations

Equipment is to be returned to In-Situ Inc. by the customer in good condition and repair, wear from reasonable and proper use excepted. Cleaning and decontamination charges will apply if such service is deemed necessary. The customer is responsible for damage to equipment due to abuse, misuse, or negligence and agrees to pay repair or replacement cost. The customer shall not make any modifications, additions, or improvements to the equipment and shall use it only for the purpose and in the manner which the manufacturer intended. Product descriptions and specifications in ISI Catalog reflect representations made by the manufacturers and do not constitute guarantees or warranties of ISI.

Inspection

Customer agrees to inspect the equipment on receipt and notify ISI immediately of any damage to the equipment. In the event of any failure caused by shipping, Customer agrees to contact ISI within one day following discovery of the problem for return instructions, and Customer agrees to return the failed equipment with ISI's instructions.

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- AMCO Clear is a registered trademark of GFS Chemicals, Inc.
- AQTESOLV is a registered trademark of HydroSOLVE, Inc.
- Delrin, Kevlar, Teflon and Tefzel are registered trademarks of E.I. du Pont de Nemours and Company U.S.A. and other countries.
- FedEx and FedEx Priority Overnight are registered trademarks of FedEx.
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- LaMotte is a registered trademark of LaMotte Company.
- NIST is a registered trademark of the National Institute of Standards and Technology.
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- Tygon is a registered trademark of Saint-Gobain Performance Plastics.
- UPS is a registered trademark of United Parcel Service.
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Rental Agreement

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