In-Situ

YOUR EYES IN THE FIELD

WATER LEVEL
Instruments

www.in-situ.com

APPLICATIONS

FROM DATA LOGGERS TO TELEMETRY TO DATA SERVICES, IN-SITU IS YOUR SOURCE FOR THE MOST TRUSTED AND COMPLETE LINE OF WATER MONITORING PRODUCTS AND SERVICES.
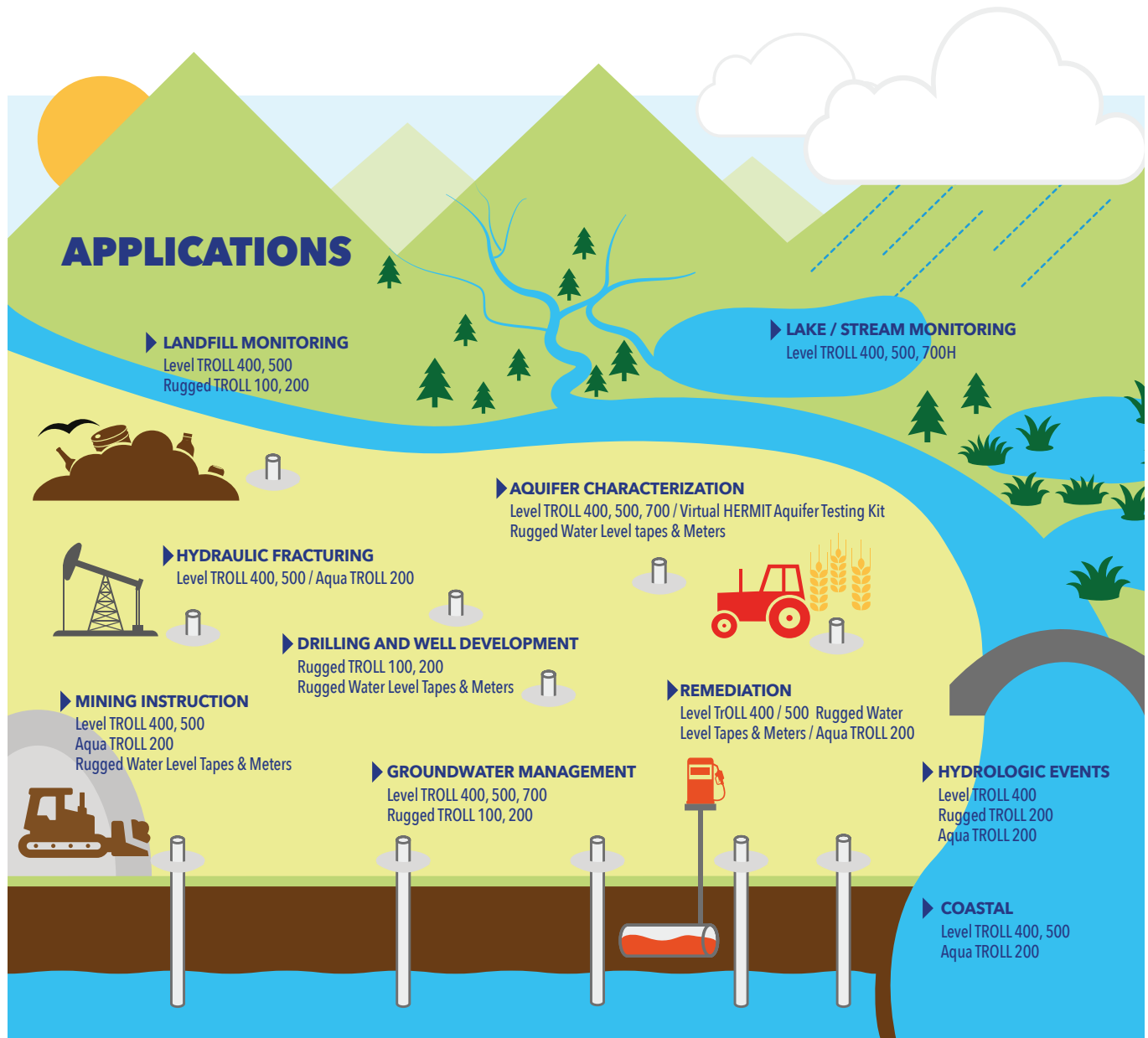
In-Situ Inc. is a leading manufacturer of in-situ (on-site) water monitoring instruments for groundwater and surface water applications. Since 1976, we have provided water monitoring professionals with innovative solutions, such as the Aqua TROLL 500, with the industry's first mobile app, for low-flow groundwater sampling and environmental monitoring.

Our environmental monitoring solutions include high-accuracy water quantity, quality and flow instrumentations. We are also known for our products and services to support remote access to decision-quality data via easy integration with VuLink™, our game-changing cellular telemetry device, and our cloud-based HydroVu™ Data Services platform.

In-Situ offers a full line of accurate, reliable water level data loggers and meters for any project and budget. Whether you need long-term monitoring or instant results, our fully sealed, solid-titanium Level TROLL® data loggers are built to last, saving you money and time in the field.

Our easy-to-use instruments, telemetry and data services platform are designed to work together, so even your most junior staff member can set up the equipment and get the data you need. It used to be a challenge to collect, analyze and share your data. But now, from your mobile device to your laptop to the cloud, your data is where you need it, when you need it.

Our team of experts can 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.

APPLICATIONS

LANDFILL MONITORING
Level TROLL 400, 500
Rugged TROLL 100, 200

LAKE / STREAM MONITORING
Level TROLL 400, 500, 700H

AQUIFER CHARACTERIZATION
Level TROLL 400, 500, 700 / Virtual HERMIT Aquifer Testing Kit
Rugged Water Level tapes & Meters

HYDRAULIC FRACTURING
Level TROLL 400, 500 / Aqua TROLL 200

DRILLING AND WELL DEVELOPMENT
Rugged TROLL 100, 200
Rugged Water Level Tapes & Meters

MINING INSTRUCTION
Level TROLL 400, 500
Aqua TROLL 200
Rugged Water Level Tapes & Meters

REMEDIATION
Level TrOLL 400 / 500 Rugged Water
Level Tapes & Meters / Aqua TROLL 200

GROUNDWATER MANAGEMENT
Level TROLL 400, 500, 700
Rugged TROLL 100, 200

HYDROLOGIC EVENTS
Level TROLL 400
Rugged TROLL 200
Aqua TROLL 200

COASTAL
Level TROLL 400, 500
Aqua TROLL 200

LEVEL TROLL® DATA LOGGERS

Level TROLL® 400 Data Logger

Measures and logs water level, water pressure, and temperature in a maintenance-free system 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 1120 ft (341 m)
- Fully sealed, all titanium construction and sensors
- Flexible communication protocols (4-20 mA, SDI-12, RS-485)
- Low-power batteries last 10+ years

Level TROLL® 500 Data Logger

One of our most popular data loggers, suited to a wide variety of projects. Continuous measurements of water level, water pressure, and temperature, as well as automatic atmospheric compensation. Sub-1 inch diameter.

- Available in vented (gauged) pressure ranges up to 1153 ft (351 m)
- Fully sealed, all titanium construction and sensors
- Flexible communication protocols (4-20 mA, SDI-12, RS-485)
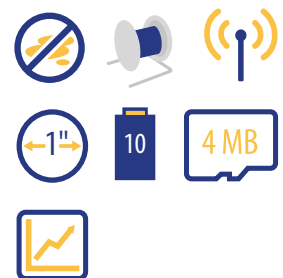- Low-power batteries last 10+ years

Level TROLL® 700 Data Logger

Premier water level logger featuring higher data resolution, expanded memory, and advanced logging modes for specialized applications. Continuous monitoring of water level, water pressure, and temperature. Sub-1 inch diameter.

- 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)
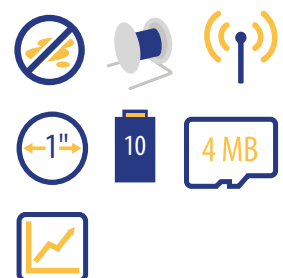- Advanced logging modes

Level TROLL® 700H Data Logger

The most accurate water level data logger on the market, meeting the USGS surface water specification of ±0.01 foot. Continuous monitoring of water level, water pressure, and temperature. Sub-1 inch diameter.

- Available in vented (gauged) configuration in pressure ranges up to 35 ft (11 m)
- Automatic atmospheric compensation
- Advanced logging modes
- OSW-Compliant data to meet USGS Office of Surface Water specifications

BaroTROLL® and Rugged BaroTROLL® Data Loggers

Measures and logs the barometric pressure and temperature data needed to compensate for water level changes due to barometric fluctuations.

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

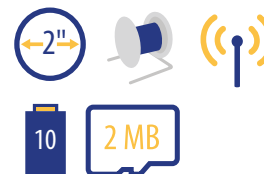# RUGGED TROLL® & CTD DATA LOGGERS, AND WATER LEVEL TAPES & METERS

Rugged TROLL® 100 Data Logger

Our most economical option for measuring and logging water level, water pressure, and temperature.

- Available in non-vented (absolute) pressure ranges up to 250 ft (76 m)
- Titanium body with Delrin nose cone and backend
- Ceramic pressure sensor
- Download data via Rugged TROLL Docking Station (sold separately)

Rugged TROLL® 200 Data Logger

Measures and logs water level, water pressure, and temperature, and features a cabled setup for direct read or telemetry data access.

- Available in non-vented (absolute) pressure ranges up to 250 ft (76 m)
- Titanium body with Delrin nose cone and backend
- Ceramic pressure sensor
- Download data via telemetry system, Rugged TROLL Docking Station, or direct-read cable (sold separately)

Aqua TROLL® 100 and 200 Data Loggers

Measure and record water level, water pressure, conductivity, and temperature with the Aqua TROLL 200, or only conductivity and temperature with the Aqua TROLL 100.
Unique conductivity cell allows for a wide, accurate measurement range in a narrow diameter instrument (sub-1 inch).

- Full range conductivity with optimum accuracy – 5 to 100,000 μS/cm
- Dynamic density compensation on the Aqua TROLL 200
- Copper antifouling conductivity guard available; copper antifouling nose cone also available for the Aqua TROLL 200 only (both sold separately)
- Aqua TROLL 200 is available in pressure ranges up to 692 ft (210m) for vented or 658 ft (200m) for non-vented

Virtual HERMIT® Aquifer Testing Kit

Connect multiple wells and program all data loggers at once to conduct step-drawdown tests and constant pump-rate tests across an entire well field. Available exclusively through In-Situ Rentals.
- Supports up to 15 wells per system
- Simultaneously configures, starts, displays, steps, or stops all connected data loggers
- Allows data downloads while tests are running
- Uses research-grade Level TROLL 700 Data Loggers

Water Level Meters

Durable, easy-to-read level meters in various lengths. Include static and drawdown modes.

- Water Level Meter 100: Economical water level tape with a Kevlar-reinforced polyethylene tape and stainless steel conductors
- Water Level Meter 200: Engineer-grade water level tape with high-tensile steel tape and stainless steel conductors; ASME-certified
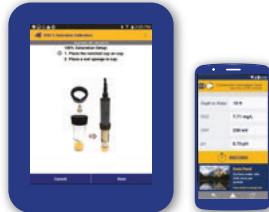
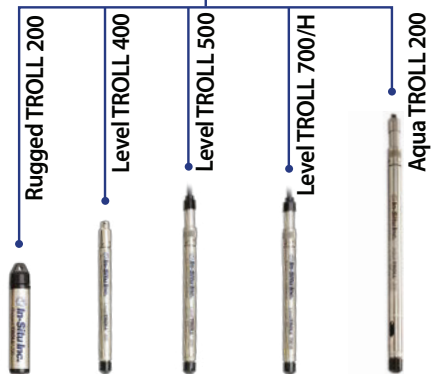# REMOTE MONITORING SOLUTIONS

HydroVu™

VuSitu™

IN-DEPTH DATA ANALYSIS

MOBILE DATA ACCESS

DATA SERVICES

HydroVu™ Data Services:

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

TELEMETRY

- In-well device features one-press set up, expanded coverage, and two-to-five times the battery life of other devices.
- Free cellular data out of the box for a limited number of parameters and readings once per day, no set up required.
- Includes continuous GPS, encrypted connections, enhanced in-device alarms, desiccant-free operation, and IP68 waterproof rating.

VuLink™

Rugged TROLL 200 | Level TROLL 400 | Level TROLL 500 | Level TROLL 700/H | Aqua TROLL 200

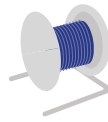## INSTRUMENTS

Water Level:

- Vented and non-vented data loggers for every project and budget.
- Fully sealed, titanium design well-suited for even the harshest environments.
- Simple setup and data retrieval with field-ready connectors and intuitive software.

KEY FEATURES AND ACCESSORIES

ANTIFOULING

Specially formulated copper antifouling guard and/or nose cone combats biofouling in coastal environments and high-fouling sites, improving the accuracy of your data and extending the length of deployment by up to six weeks.

INTERNAL BATTERY POWER

Internally sealed lithium battery power for frequent, fast sampling or long-term deployments. No external power is required, although it is an option (except on Rugged TROLL instruments).

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).

RUGGED CABLE AND RUGGED TROLL DIRECT-READ CABLE SYSTEMS

Durable, long-lasting cables come in custom lengths and provide real-time communication. Patented twist-lock connectors provide easy, secure attachment and detachment, protecting your investment.

SPECIALIZED LOGGING MODES

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

TELEMETRY CAPABLE

Remote monitoring made easy with secure and reliable in-well telemetry, featuring setup with one button press, global cellular coverage, and extraordinary power savings. Both alkaline and lithium batteries supported.

ADDITIONAL ACCESSORIES

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.

BAILERS

Bailers for straight-forward collection and visual examination of water samples in different environments. Available in PVC, Polyurethane (weighted), and biodegradable models, and in 0.7 x 36 inch and 1.5 x 36 inch sizes.

WELL CAPS

Vented well caps and vented locking well caps for 2 or 4 inch wells. Expandable locking well caps for 2, 3, 4, 6, and 8 inch wells.

PUMPS

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

For our full offering of accessories, please visit www.in-situ.com

In-Situ

CALL OR CLICK TO PURCHASE OR RENT

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

www.in-situ.com