







Environmental Water Level Brochure




Professional Loggers

Our rugged, solid-titanium dataloggers are built to last for low-maintenance deployments. 3D factory calibration supports reliable data collection. Compact design fits sub-1-inch diameter wells, while low-power batteries offer 10+ years of life. Flexible communication protocols simplify setup and integration.

			
Level TROLL 400	Level TROLL 500	Level TROLL 700	BaroTROLL
Water level, pressure and temperature data	Water level, pressure and temperature data	Water level, pressure and temperature data	Barometric pressure and temperature data
Non-vented (absolute) pressure ranges up to 1120 ft (341 m)	Vented (gauged) pressure ranges up to 1153 ft (351 m)	Vented pressure ranges up to 1153 ft (351 m) or non-vented pressure ranges up to 2274 ft (693 m)	Use with non-vented Level TROLL 400 and 700 or Aqua TROLL 200
		Higher resolution data, expanded memory, advanced logging modes	Post-correct absolute level data in HydroVu

Specialized Loggers

	Level TROLL 700H <ul style="list-style-type: none">Exceeds USGS surface water accuracy specification of ± 0.01 footAdvanced logging modesVented (gauged) pressure ranges up to 35 ft (11 m)Automatic atmospheric compensation
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Non-Contact Level Sensors

Level TROLL NC

The Level TROLL NC is a high-performance, 80 GHz FMCW radar sensor designed for non-contact water level measurement. It features a twist-lock connector and intuitive VuSitu mobile app compatibility for easy setup and data collection.

- Exceeds USGS surface water accuracy specification of ± 0.01 foot
- Measurement ranges of 49 ft (15 m), 98 ft (30 m) and 164 ft (50 m)
- Narrow 5-degree beam angle for installation flexibility
- VuSitu displays radar echo curve to assess signal return
- Customize Active Zone settings or change Peak Detection to enhance accuracy



Practical Loggers



Rugged TROLL 100 and 200

- Water level, pressure and temperature data
- Non-vented (absolute) pressure ranges up to 250 ft (76 m)
- Titanium body with Delrin nose cone and backend
- sub-2-inch
- Ceramic pressure sensor
- 2 MB of memory

Select the Rugged TROLL 200 for cabled setup with direct read or telemetry data access.



Rugged BaroTROLL

- Barometric pressure and temperature data
- Use with non-vented (absolute) Rugged TROLL 100 and 200
- Post-correct absolute level data in HydroVu

CTD Loggers

Sub-1-inch design fits any deployment. Titanium construction prevents corrosion. 3D factory calibration ensures full-range sensor accuracy. And dynamic density compensation collects accurate water level data in environments where salinity may vary. Available in flexible communication protocols (4-20mA, SDI-12, RS-485).



Aqua TROLL 100

Measures and records

- Conductivity
- Temperature



Aqua TROLL 200

Measures and records

- Conductivity
- Temperature
- Water level
- Pressure

Water Level Meters

Durable, easy-to-read level meters come in various lengths to suit every project. Take static level readings, then switch to drawdown mode for low-flow and pumping tests. The IP68-rated probe can be submerged up to depths of 1,000 ft (300 m). Corrosion-resistant probe and protected electronics prevent wear and tear.



Water Level Meter 100

- Kevlar-reinforced polyethylene tape and stainless steel conductors
- Ideal for well drilling and pump installation



Water Level Meter 200

- Engineer-grade, high-tensile steel tape and stainless steel conductors; ASME-certified
- Ideal for measuring depth-to-water in wells, boreholes, direct-push equipment and standpipes

Connected technology that's easy to use.

All In-Situ equipment, telemetry, software, cables and accessories are designed to work together in a shared ecosystem for flexible configurations and seamless expansion of your monitoring network.



VuSitu® Mobile App

Intuitive app for iOS and Android provides guided setup tools and instant cloud uploads to HydroVu for automatic, secure data storage.



HydroVu® Data Services

Secure cloud platform offers network-wide visibility, customizable alarms, and simplified data access and management.



Accessories

Universal cables and connectors support multiple applications and deployment configurations.



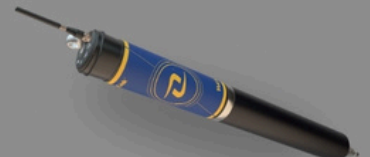
Instrumentation

Rugged, reliable instrumentation is quick to set up and deploy, and easy to maintain.



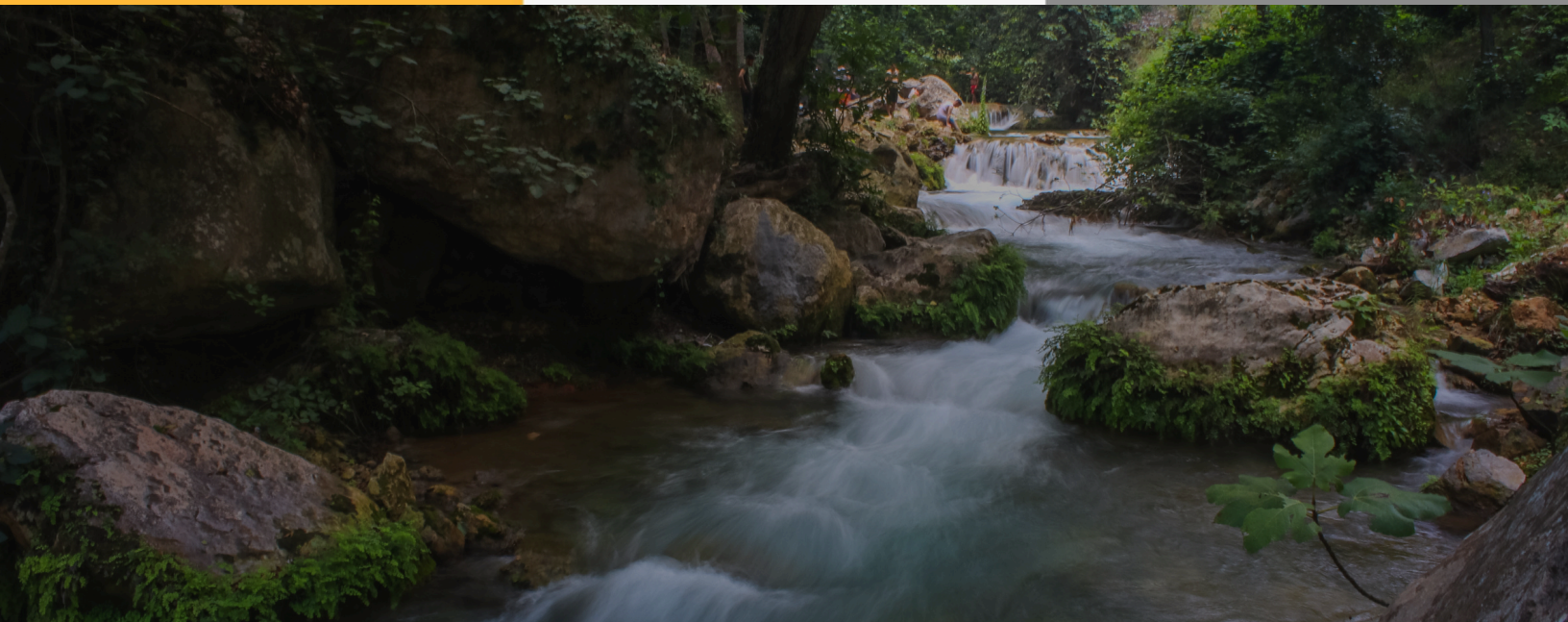
TROLL® Com PLUS

Bluetooth® connectivity streamlines field data access, enabling live graphing and data visualization features with VuSitu.



VuLink® Telemetry

One-touch activation offers seamless setup for access to real-time data from virtually anywhere.



Applications

Rugged, reliable instrumentation, telemetry and software simplify water level monitoring in a range of applications.

- Surface Water
- Profiling
- Groundwater
- Mining and Industrial
- CTD Monitoring
- Aquifer Characterization
- River and Lake Stage
- Saltwater Intrusion
- Dredging
- Remediation
- Stormwater
- Low-Flow Sampling
- Flood Warning
- Tide Gauging
- Stream Gaging
- Effluent



In-Situ

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In-Situ Support

Reliable equipment is just the beginning. Our knowledgeable technical support and service teams provide timely assistance to ensure peak performance in the field.