

VuLink is an advanced data logger and cellular telemetry device, engineered to seamlessly integrate with In-Situ water quality, level, and buoy systems. Offering a comprehensive turnkey solution, VuLink is known for its ease of setup, robust durability, and enduring power capabilities. This ensures a secure, uninterrupted view of your field instrumentation and the critical data it collects, empowering you with precise insights for informed decision-making.

## FEATURES

- Cellular Connectivity: Remain connected to your data anywhere, anytime.
- Long-Lasting Power: Dependable performance that goes the distance.
- Easy Setup: User-friendly configuration gets you up and running quickly.
- Complete Monitoring Solution: Part of In-Situ's comprehensive monitoring ecosystem.
- Reliable Data Logging: Meticulously record data with precision.
- Durable Build: Crafted to endure diverse environmental conditions.
- Remote Data Access: with HydroVu Data Services

## APPLICATIONS

- Ongoing Groundwater Monitoring
- Buoy System Installation
- River Level Gauge
- Stormwater Runoff
- Monitoring Stormwater
- Municipal Discharge
- Industrial
- Mine Water

## ACCESSORY:

The VuLink omnidirectional antenna is a valuable addition to the VuLink data logger, designed to boost cellular reception, especially when the logger is installed below grade or encased. This low-profile antenna is effortlessly easy to install on the exterior of a casing or buoy. It's strategically designed to provide an unobstructed signal to the VuLink data logger, ensuring seamless data transmission and enhanced operational efficiency.

## ANTENNA SPECS:

- Compatible Cellular Bands: 5G/4G/3G
- Installation: Peel and Stick Adhesive
- Cable Length: 1.5M (5-feet)
- Rated: IP67
- Thickness: 7.9mm (0.3-inches)



CALL GEOTECH TODAY

**(800) 833-7958**

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue Denver, Colorado 80205

(303) 320-4764 FAX (303) 322 7242

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## Technical Specifications

<b>Battery</b>	3 x D cell (1.5V - 3.6V) Alkaline Li-SOCl <sub>2</sub> [Lithium Thionyl Chloride] Li-MnO <sub>2</sub> [Lithium Manganese Dioxide] supported. <i>Li-MnO<sub>2</sub> [Lithium Manganese Dioxide] recommended for best performance.</i>
<b>Operation Time</b> 24 hour reporting, Li-MnO <sub>2</sub> 24 hour reporting, Alkaline Hourly reporting, Li-MnO <sub>2</sub>	Up to 12 years* Up to 3 years* Up to 2 years*
<b>Clock Accuracy</b>	<1 minute drift per year with ability to synchronize to network provided time for accuracy +/-1 sec.
<b>Network Type</b>	4G LTE Category M1 (LTE-M)/NB-IoT (Narrow Band) with 2G fallback.
<b>Bands</b>	<b>LTE Global</b> - B1(2100), B2(1900), B3(1800), B4(AWS1700), B5(850), B8(900), B12(700), B13(700), B18(800), B19(800), B20(800), B28(700) <b>Verizon</b> - B4(AWS1700), B13(700) <b>2G Quadband</b> - B2(1900), B3(1800), B5(850), B8(900)
<b>Network Protocols</b>	HTTPS(HydroVu),FTP,SMS(alarms)
<b>Data Provider</b>	Built-in free** global roaming (see Network List Addendum for details: in-situ.com/VuLinkNetworks), additional single 4FF slot for 3rd party SIM support
<b>Antenna</b>	SMA-M connector
<b>GPS</b>	Up to 3m accuracy, built-in antenna
<b>File Format (non-HydroVu)</b>	CSV
<b>Remote Setup</b>	Supported
<b>Diameter</b>	47 mm(1.85 in)
<b>Length</b>	485 mm (19.1 in)
<b>Weight</b>	1.0 kG (2.2 lb) with included alkaline batteries and carabiner, excluding antenna.
<b>Material</b>	Polyphenylene Sulfide (housing), Polyvinyl Chloride (battery cover), Titanium (Twistlock connector, ring, eyebolt), 316 Stainless Steel (carabiner), Silicone (keypad cover), Brass (SMA antenna connector), Polycarbonate (label), FKM Fluoroelastomer (O-rings)
<b>Storage Temperature</b>	-20°C to 60°C (-4°F to 140°F)
<b>Operating Temperature</b>	-20°C to 50°C (-4°F to 122°F) (Li-SOCl <sub>2</sub> /Li-MnO <sub>2</sub> ), 5°C to 40°C (41°F to 104°F) (Alkaline)
<b>Ingress Protection</b>	Device: IP68 System: Up to IP68 per antenna specification
<b>Instrument Protocols</b>	Modbus over RS-485, Pulse low/high frequencies (max 40 kHz)

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<b>Connectors</b>	1 In-Situ Twistlock (supports multiple instruments via Rugged Cable Splitter, TROLL Net Hub, or Load-Bearing Universal Adapter)
<b>Power</b>	Total maximum of 75mA provided to connected instruments at 16V (intended typically to power a single instrument)
<b>Simultaneous Connections</b>	Up to 8 instruments (total maximum of 75mA provided to connected instruments at 16V)
<b>Venting</b>	Built-in on all models, no desiccant required
<b>Barometric Compensation</b>	Built-in on all models for automatic compensation of non-vented level readings
<b>Barometer Accuracy</b>	+/-1hPa
<b>Alarms</b>	Configurable based on instrument readings and device parameters, second reading/re-reporting schedule available when in alarm state.
<b>Wireless Setup</b>	Supported via Bluetooth Low Energy
<b>Logging Rate</b>	1 minute to 7 days
<b>Transmission Rate</b>	5 minutes to 7 days
<b>Warranty</b>	2 Years

\* Measured at a temperature of 23°C (73° F), LTE-M network connectivity, internally-powered instrument

\*\* Free up to 1 transmission of 24 data points per day for life of instrument, additional plans can be purchased



**Continuous GPS** – HydroVu uses VuLink’s GPS to automatically locate and mark devices on maps, syncing devices and locations, increasing data quality, and making it easier to track free-floating buoys.



**Encrypted Connections** – VuLink and HydroVu offer SSL encryption of your data.



**Free Global Cellular Data** – VuLink and HydroVu offer free data up to 1 transmission for 24 data points per day. Additional plans can be purchased. No more worrying about provisioning SIM cards and checking multiple systems for data usage. VuLink works with all LTE networks that support LTE-M1/NB-IoT.

**Expanded Connectivity** – VuLink also can read high frequency and low frequency pulse inputs, configured in VuSitu. And the device’s new Load-Bearing Universal Adapter can connect to anything.

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