

Water Monitoring

In-Situ Cellular Network Telemetry Systems

In-Situ's economical and secure wireless systems easily interface with In-Situ instrumentation providing real-time data from remote sites. Each cellular network helps to control project costs by minimizing travel time and allows data access anywhere, anytime.

BENEFITS

- Built for extended deployments
- Streamline data collection when interfaced with HydroVu Data Services
- Compatible for Pulse Input
- Real-time parameter alerts
- Low-maintenance
- Internal barometric sensor compensates pressure automatically
- Data logging and data transmission (direct read or wireless)
- Available with high speed 3G GSM (AT&T) quad band wireless configuration

SYSTEMS INCLUDE:

- Selected Tube & Cube System
- Stub Antenna
- Optional Non-Vented or Vented Twist Lock Connector
- Lithium Battery Pack
- 512 MB SD Card – Data Loss Protection
- Quick Start Guide

OPTIONAL ACCESSORIES

- HydroVu Data Services with cellular service, SIM Card, and Cloud Visualization
- Hanger Kit for Tube 300R
- Rugged Cable Splitter (vented or non-vented)
- TROLL Net Hub connects up to 5 instruments with Tube 300 models only

TELEMETRY SYSTEMS

Tube 300R Telemetry System

In-well cellular telemetry system capable of sending data from a single instrument.

Features:

- 5+ year battery pack
- Fits in 2" well casing and low-profile
- IP68 Rating
- Connects up to 5 instruments with a Troll Hub (sold separately)



Tube 300S Telemetry System

Solar powered telemetry system capable of sending data from a single instrument.

Features:

- Integrated solar panels with rechargeable battery
- IP65 Rating
- Connects to 1 instrument

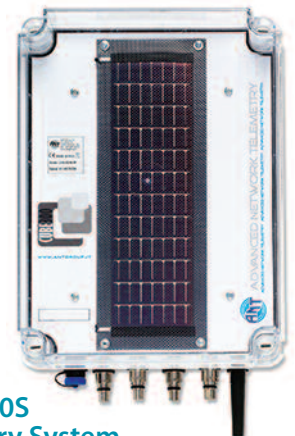


Cube 300R Telemetry System

Compact telemetry system capable of sending data from up to five instruments.

Features:

- 5+ year battery pack
- IP65 Rating
- Connects up to 5 instruments



Cube 300S Telemetry System

Solar powered telemetry system capable of sending data from up to five instruments.

Features:

- Integrated solar panels with rechargeable battery
- IP65 Rating
- Connects up to 5 instruments

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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In-Situ Cellular Network Telemetry Systems

SPECIFICATIONS

General	Tube 300R	Tube 300S	Cube 300R	Cube 300S
Operating Ranges¹	Temp: -20-70°C (-4-158°F) Humidity: 95% max. n.c.	Temp: -20-70°C (-4-158°F) Humidity: 95% max. n.c.	Temp: -20-70°C (-4-158°F) Humidity: 95% max. n.c.	Temp: -20-70°C (-4-158°F) Humidity: 95% max. n.c.
Diameter, Maximum	Tube: 5 cm (1.97 in.) Top cap: 5.2 cm (2.05 in.)	Tube: 7 cm (2.75 in.) Top cap: 7.5 cm (2.95 in.) (with solar panel)	NA	NA
Dimensions	Length: 48 cm (18.9 in.)	Length: 48 cm (18.9 in.)	20 x 18 x 8.5 cm (7.87 x 7.1 x 3.35 in.)	36 x 24 x 13 cm (14.2 x 9.4 x 5.1 in.)
Weight with Battery	1730 g (3.81 lbs.)	1670 g (3.68 lbs.)	1345 g (2.965 lbs.)	3100 g (6.83 lbs.)
Materials	Stainless steel	Methacrylate, 5 mm thick	GW PLAST 75	GW PLAST 75
Ratings	IP68 (cannot operate submerged)	IP65	IP65	IP65
Power Internal Battery	Battery Lithium 10.8V/19000 mAh	Solar panels integrated NiCd 7.2V/1400 mAh	Battery Lithium 10.8V/19000 mAh	Solar panels integrated NiCd 7.2V/1400 mAh
Connectors	1 twist-lock connector	1 twist-lock connector	5 twist-lock connectors	5 twist-lock connectors
Operation Time	Up to 5 years when logging every 10 min. and uploading data 1/day	Solar panel power: Unlimited, depending on sunlight exposure and programmed activities	Up to 5 years when logging every 10 min. and uploading data 1/day	Solar panel power: Unlimited, depending on sunlight exposure and programmed activities

Common Specs

Sensor Compatibility	Aqua TROLL® 100/200 Data Loggers; Aqua TROLL 400 Multiparameter Instrument; Aqua TROLL 600 Multiparameter Sonde, BaroTROLL® Data Logger; Level TROLL 400/500/700/700H Data Loggers; Rugged Troll 200; RDO Pro-X
Communication Antenna	GSM quad band — 850, 900, 1800, 1900 MHz (capable of GPRS, SMS, email, and FTP); 2G available SMA connector with stud antenna or optional external antenna for Tube 300R
Data Access/Storage Data Access Data Storage Data Format	Via email or FTP; via cable; and real-time via GSM/GPRS direct call or HydroVu data services SD Flash memory, 512 MB (not replaceable) CSV file
Programming Programming Mode Operation Mode	Through ANT tool communication software, via cable, or remotely via landline or GSM modem Through communication software tool via direct connection to a PC or remotely through GSM modem or landline modem. 1. Up to 8 programmable events/day; data transmission; or SMS transmission 2. Automatic data logging (reading interval: 1 minute to 24 hours) 3. Alarm transmission (SMS) 4. Data logging and batch transmission of stored data. Connect up to 5 probes and log all available (includes data from internal barometric pressure sensor).
Interfaces Serial Interfaces	RS232 or RS485 software selectable (with automatic RS232 switching when a PC connection is detected)
Alarm Capability Capacity Sources SMS limits	The unit can generate an alarm if tilted or disconnected; if exceeds critical temperature values or parameters threshold values; or if battery levels reach critical. Via SMS. 2 recipients Up to 8 alarm sources Can be programmed
Real-time Clock/Calendar	Built-in
Sensors	Built-in barometric pressure sensor included with non-vented systems, which automates barometric pressure compensation for non-vented water level sensors. Built-in temperature sensor
Warranty	1 year
Notes	*Refer to Alarms section in manual. Alarm sources: reset, temperature, tilt sensor, data send failure, low battery, probe reading out of range, tamper, log memory full or error, and probe reading error. Specifications subject to change without notice.

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