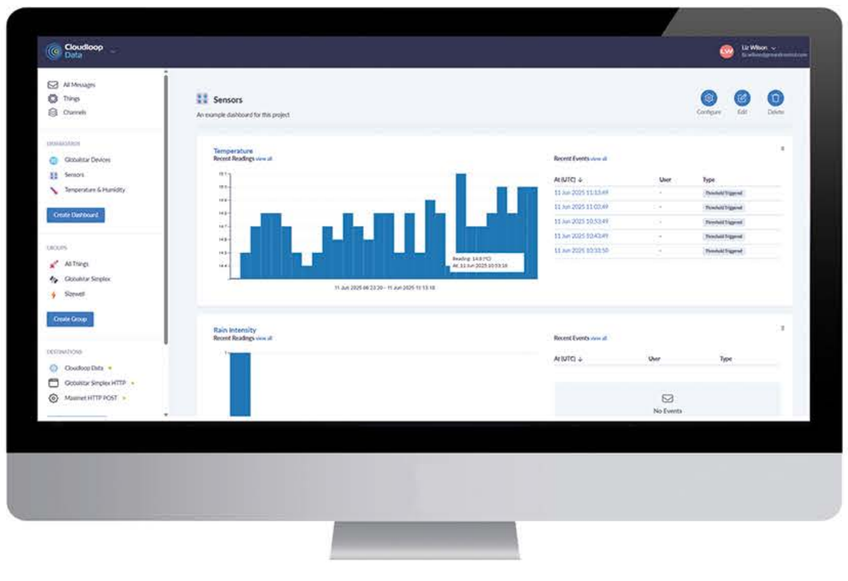
RockBLOCK RTU

Flexible, satellite-enabled micro-data logger



RockBLOCK RTU is a micro data logger built for remote sensor capture in harsh, off-grid environments. Housed in a rugged IP68 shell, it offers two dry-contact digital inputs, one configurable 0–10V/4–20mA analog channel, and both BLE- and Cloudloop-based configuration. It runs directly from 8–32VDC (solar-or battery-backed) and sips as little as 380mW (SBD version) at hourly reporting intervals - perfect for long-term environmental monitoring where every milliwatt counts.

Select the connectivity that fits your mission: real-time IridiumSBD for instant data delivery, or NTN NB-IoT for low-power, low-cost bulk reporting. Either way, RockBLOCK RTU brings global satellite reach to applications like water level logging, soil moisture sensing, or industrial telemetry - no site visits required and seamless data flow via Ground Control's Cloudloop platform.

Key Features

Connectivity	Iridium SBD or NTN NB-IoT (coming soon)
Sensor Modes	Analog or Digital
Cloud Access	Cloudloop Data + Insights
Power	Battery, solar, or external power
Send Frequency	Configurable (10 sec to multi-hour)
Form Factor	Compact, rugged, encased

Real-time Connectivity

Solar/Battery Power

Cloud Storage

Sensor Logging

Actionable Insight

Ground Control

USA
+1 800 773 7168

UK
+44 (0) 1452 751 940

www.groundcontrol.com
hello@groundcontrol.com

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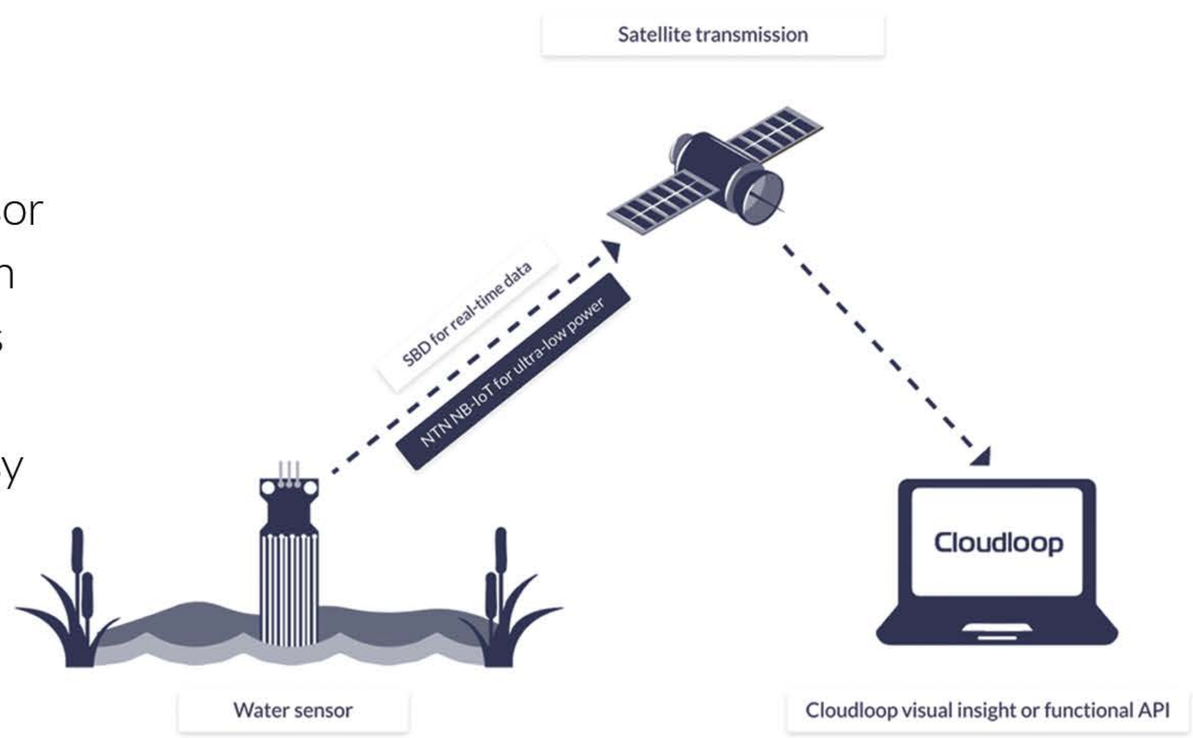
How it works

1. **Connect your sensor**
2. **RockBLOCK RTU logs data and prepares it for transmission**
3. **Sends via Iridium SBD or NTN NB-IoT (depending on model)**
4. **Cloudloop Data routes the payload**
5. **Cloudloop Insights visualizes the sensor readings**

Cloudloop supports routing to AWS, custom endpoints, or your own app via REST API.

Cloudloop Data Insights

Cloudloop Data Insights provides real time visibility of sensor readings, with threshold-based alerts for anomaly detection and continuous monitoring. It logs and archives time series data for trend analysis, auditing, and compliance, while normalizing inputs from diverse sensor types to enable easy comparison. Pre-integrated data destinations simplify onward integration and analysis.



Technical Information

Parameter	Specification
Inputs	4 x analog/digital (configurable)
Interface	RS-232 / UART serial, GPIO header
Enclosure	Rugged, sealed IP-68
Cloudloop Services	Data routing, dashboard, API access
Dimensions	137mm diameter x 40mm depth

Use Cases

Pipeline valve state monitoring

Off-grid temperature, voltage, or flow sensing

Environmental compliance data collection

Smart agriculture and tank level monitoring

Emergency or tamper switch alerting

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