



Xsense RTL 2G
Datalogger for
Real-Time
Monitoring



Xsense RTL 2G Datalogger for Real-Time Monitoring Owner's Manual

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Xsense RTL 2G Datalogger for Real-Time Monitoring



Product Information

Introduction

The Xsense® 2G & Cat-M1(4G/5G) datalogger is a compact device for real-time monitoring built for today's world. It was designed from the ground up to use a non-lithium battery, and it supports easy battery replacement by the user, as per EU standards, for extended use or reuse. Temperature, relative humidity, light, shock/acceleration, and barometric pressure sensors are currently offered, with many additional sensors and extensions planned for the future.

Some novel features are

- Ability to manually force test cellular connectivity
- Optional BLE access for reconfiguring device or offloading readings
- Optional USB-C power port for powering unit for extended use or as an emergency power source

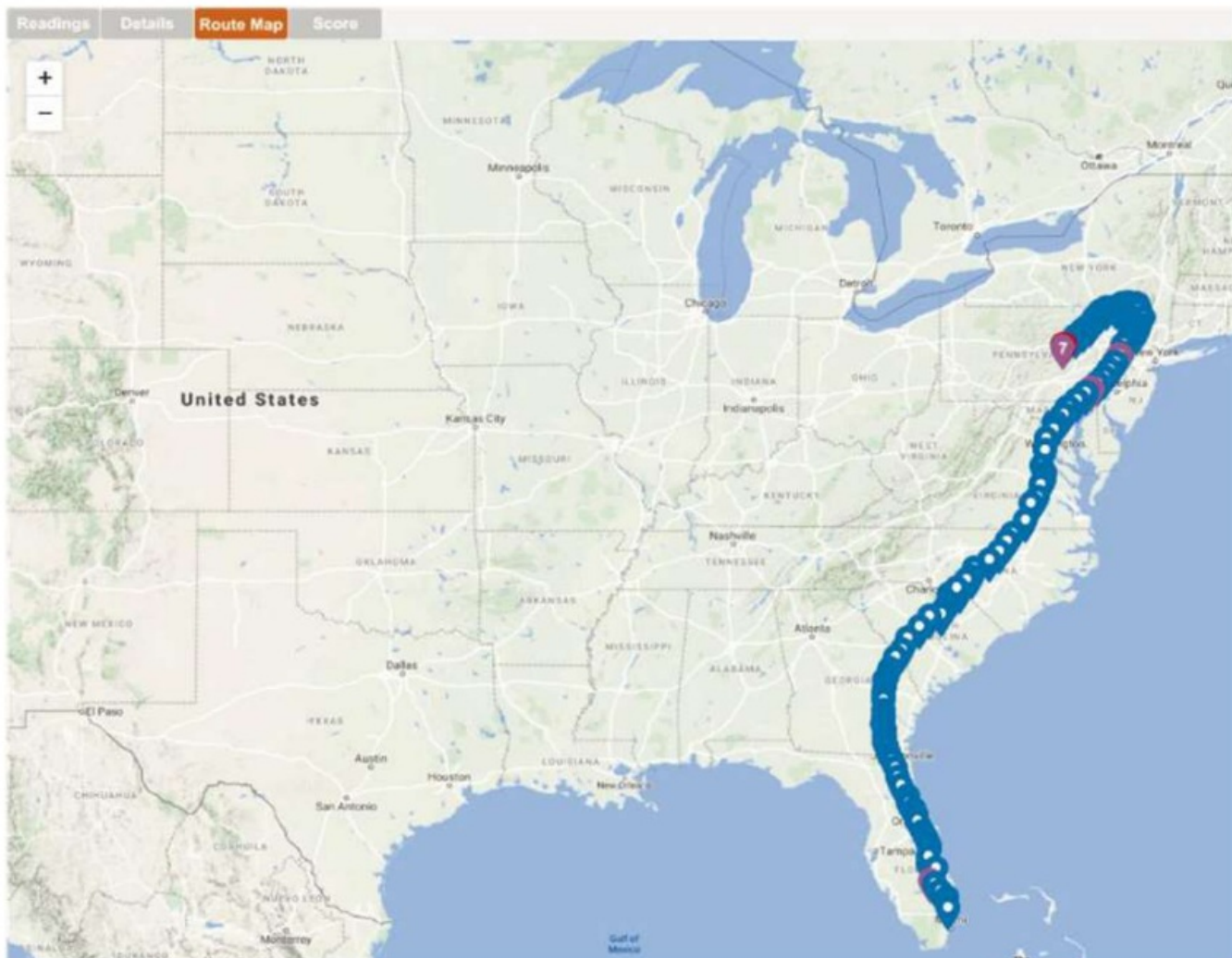
It is simple to use. Register your device in Xsense®. Turn it on. And place it wherever you want (within range of a cellular signal) to get live measures of environmental and location information.

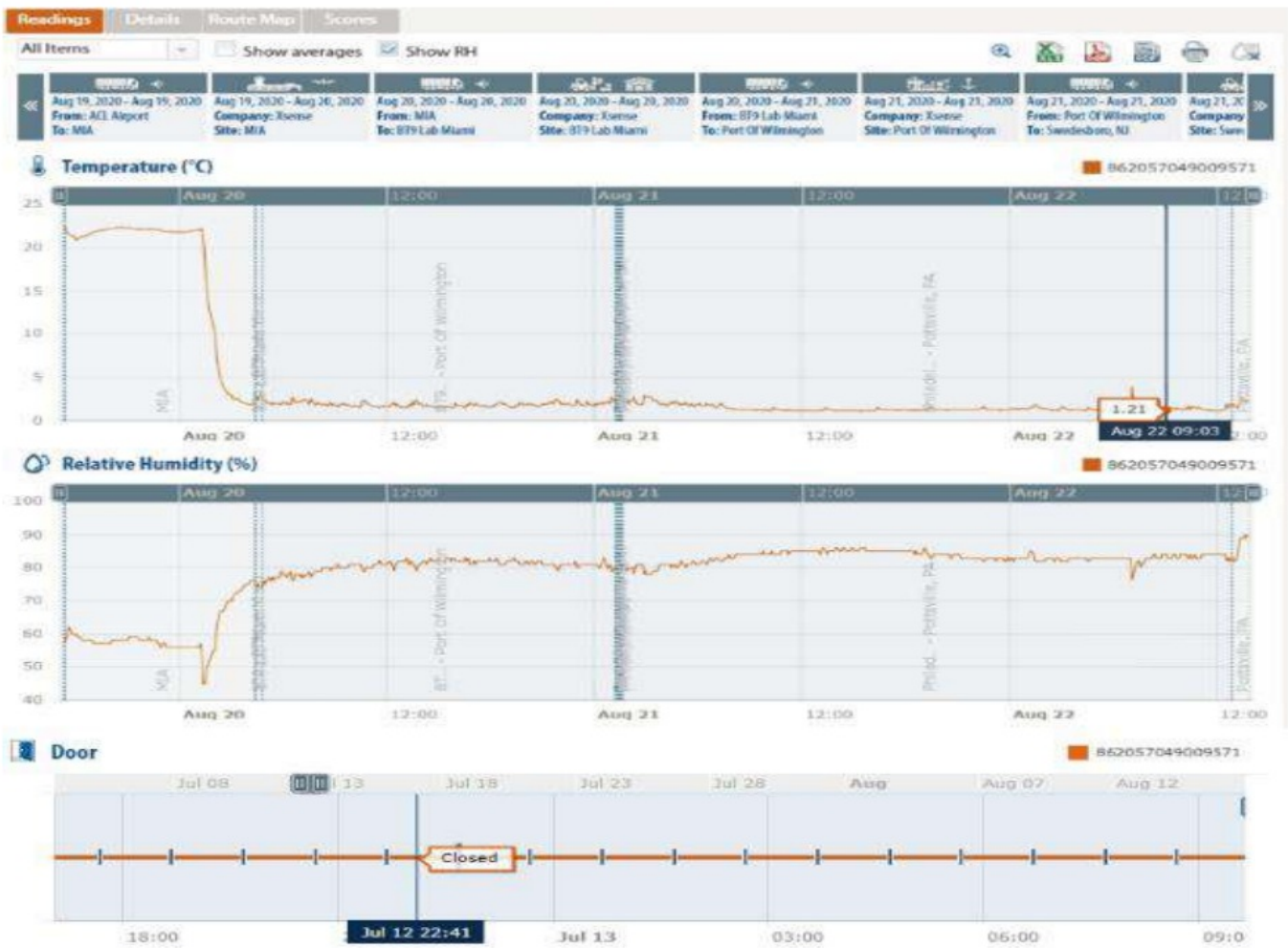
It comes with a cellular SIM card pre-installed.

The datalogger comes with access to Xsense® Cloud which includes such features as:

- Route tracing and trip segmentation
- Smart data access security
- Automatic alerts
- Quality metrics
- Automatic notifications at destination and waypoints
- In-app messaging and alerts (Android and iOS)
- Arrival time estimations Post-analysis reports

Stay informed anywhere, anytime.





Applications

- One-way shipments
- Round-Trip shipments
- Last mile
- Fixed location monitoring
- Asset tracking

Device Specifications

Cellular Network	LTE Cat-M1 (4G) & 2G
SIM Card	Pre-installed global nano SIM card
Battery Type	Non-Rechargeable
Operating Options	Single Use / Reusable
Certified Modes of Transport	Air, Road, Rail, Ocean
Operating Life	Up to 18 days (15-minute reporting interval) Up to 35 days (30-minute reporting interval) Up to 70 days (1-hour reporting interval)
Operating Temperature Range	-30°C to +60°C
Transmission Interval	Configurable, 5 to 120 minutes
Logging Interval	Configurable, 1 to 120 minutes
Memory Capacity (Offline Logger)	12,000 readings
Secondary Communication Channel	Bluetooth BLE 5.2 via Xsense® Mobile App
Alternative Power Source	Standard USB-C Cable (Cable Output: 5V/1A)
Regulatory Certifications	FCC; CE; RTCA/DO-160 – Pending
Storage Conditions	Temperature: +10°C to +35°C
Dimensions	97 mm x 111 mm x 29 mm 3.8 in x 4.37 in x 1.14 in
Weight	Up to 240 g / 8.5 oz
Patents	Pending

Sensors

Sensor	Range / Accuracy	Precision	Calibration
Temperature (TB)	± 0.2°C (from 0°C to 60°C) / ± 0.3°C (under 0°C) ± 0.36°F (from 32°F to 140°F) / ± 0.54°F (under 32°F)	0.1°C / 0.18°F	Factory calibrated (NIST)
Relative Humidity	± 3% (from 0 to 85%) / ± 4% (from 85 to 100%)	1%	Factory calibrated (NIST)
Light	0.01 to 157,000 Lux (±10%) Door open > 15 Lux	???	Factory calibrated

Product Usage Instructions

Setting Up the Device

1. Insert a compatible SIM card into the device.
2. Charge the device using the provided USB-C power port.
3. Turn on the device and follow the on-screen instructions for initial setup.

Data Monitoring and Alerts

1. Download the companion app on your Android or iOS device.
2. Pair the device with the app using Bluetooth Low Energy (BLE).
3. Receive real-time alerts and notifications on your phone for route tracing, trip segmentation, and quality metrics.

Data Analysis and Reporting

1. Access post-analysis reports through the app for detailed insights.
2. Utilize in-app messaging for communication and alerts related to the monitored data.

Maintenance and Care

1. Keep the device within the specified operating temperature range for optimal performance.
2. Clean sensors periodically to ensure accurate readings.
3. Avoid exposing the device to extreme conditions to prolong its operating life.

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum

distance 20cm between the radiator and your body.

- This Class B digital apparatus complies with Canadian ICES-003.

IC Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

FAQs

- **Q: How do I reset the device?**

A: To reset the device, press and hold the power button for 10 seconds until it powers off. Then, turn it back on as usual.


- **Q: Can I use a different SIM card with the device?**

A: It is recommended to use a compatible SIM card provided by the manufacturer to ensure proper functionality and connectivity.

- **Q: How often should I calibrate the sensors?**

A: The sensors come factory calibrated (NIST), but it is advisable to recalibrate them periodically according to usage and environmental conditions for accurate readings.

Documents / Resources

	<p>Xsense RTL 2G Datalogger for Real-Time Monitoring [pdf] Owner's Manual RTL 2G, RTL 2G Datalogger for Real-Time Monitoring, Datalogger for Real-Time Monitoring, Real-Time Monitoring, Monitoring</p>
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References

- [User Manual](#)

Manuals+, Privacy Policy

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