USER GUIDE

LT5GEO-E-S

LogTag

Distributed by AKRIBIS

LogTag® North America Inc.

LogTag® LT5GEO Family

User Guide

www.logtag.com

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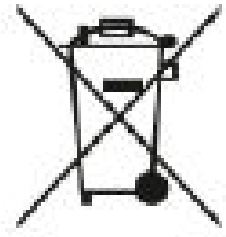
Safety Information



The LogTag® LT5GEO Cellular data logger contains a non-replaceable non-lithium battery.
Avoid exposing the device to extreme temperatures, as this may damage the battery and pose a risk of injury.
Keep out of reach of children.

Liability

LogTag® North America's standard warranty terms apply. A copy can be requested by emailing support@logtagrecorders.com.

Additionally, LogTag® North America shall not be held liable:

- If the LT5GEO was used beyond LogTag® North America's stated limitations.
- For any claims due to the improper storage or use of the device.
- For any problems with refrigeration units.
- For the quality of the monitored goods, if any.
- For incorrect readings if the device was used with a low battery.
- For any consequential loss.

Disclaimer

The LT5GEO monitors environmental conditions, including temperature, humidity (internal sensor model only), light, and shock, but does not assess the quality of the goods it accompanies. Its purpose is to indicate whether further evaluation or testing of the product is necessary.

Battery Life

The batteries in the LT5GEO are designed to power the device for the time specified in the specification charts, provided:

- A strong signal is available where the LT5GEO is deployed.
- The location and transmission interval is every 24 hours.
- The device is stored and operated according to LogTag® North America's recommendations.

Regulatory Compliance

These modules have been tested and comply with FCC, IC RSS-210, CE, and SRRC regulations for intentional transmitters. These regulations set limits designed to provide reasonable protection against harmful interference in approved installations.

This equipment generates, uses, and may emit radio frequency energy. If not installed and used as instructed, it may cause interference to radio communications. However, interference-free operation in all installations is not guaranteed.

Operation is subject to the following conditions:

- Any modifications or changes not expressly approved by the responsible party may void the user's authority to operate the equipment.
- The device is not approved for hand-held operation. The minimum safe distance for RF exposure is ≥ 200 mm.

Introduction

The LogTag® LT5GEO data logger automatically uploads real-time temperature, humidity (internal sensor model only), light, and shock sensor data to your LogTag® Online cloud account via the cellular connection.

At set intervals, the LT5GEO uploads data to your LogTag® Online cloud account, where it can be viewed, analyzed, shared with others, or downloaded for further analysis.

The LT5GEO logger family encompasses the following logger models from LogTag®.

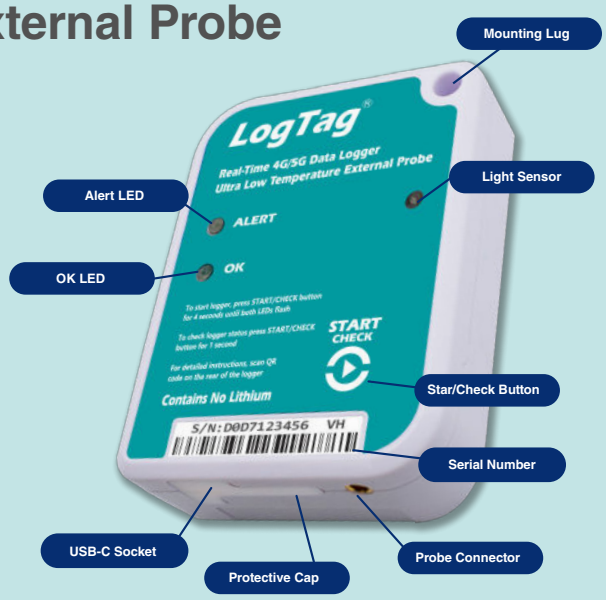
Logger Model	Internal Sensor	Standard External Probe	Ultra-Low External Probe
Single-Use	LT5GEO-S	LT5GEO-E-S	LT5GEO-LE-S
Multi-Use	LT5GEO-M	LT5GEO-E-M	LT5GEO-LE-M

Features

The LogTag® LT5GEO features our familiar LogTag® family feel design, with a user-friendly single-button operation and its LED status lights for at-a-glance monitoring. There are two physical designs in the LT5GEO family which are outlined below.

Internal Sensor

External Probe



Sensors

The LT5GEO family loggers feature multiple sensors that vary depending on the logger model.

	Internal Sensor	Standard External Probe	Ultra-Low External Probe
Temperature Measurement Range	-30 °C to +70 °C (-22 °F to +158 °F)	-40 °C to +99 °C (-40 °F to +210 °F)	-90 °C to +40 °C (-130 °F to +104 °F)
Humidity Measurement Range	0% RH to 100% RH	Not Available	
Light Sensor Range	Detects exposure to light from 0-120,000 lux		
Shock Sensor Range	Samples impact events at 25Hz (-16 to 16g)		

Airplane Mode

The LT5GEO transmits sensor data at set intervals. When a flight is detected, Auto Flight mode triggers and automatically disables cellular transmission. When landing is detected, Auto Flight mode is deactivated and automatically resumes data transmission.

Power Supply

The LT5GEO is charged via a USB-C cable and requires an external 5V USB power supply to ensure proper and stable charging of the logger. This power supply can also be used to permanently power the LT5GEO for continuous monitoring applications.

LogTag® Online Subscription

Each single-use LT5GEO includes 3 months of access to LogTag® Online, including email and in-app notifications. SMS, WhatsApp, and VoiceCall notifications require a paid LogTag® Online Subscription and Notification Units, which can be purchased separately.

Each multi-use LT5GEO includes a 1-year paid LogTag® Online Subscription, including 500 Notification Units for SMS, WhatsApp, and VoiceCall notifications. To continue using the multi-use logger with LogTag® Online after the first year, purchase a 1-year LT5GEO Renewal Code.

Note: Adding an LT5GEO logger to a LogTag® Online account activates its included access or subscription. Once activated, this access cannot be paused or transferred. Single-use access expires 3 months after the logger is added to the account. Multi-use LogTag® Online Subscription expires 1-year after the logger is added to the account.

Recommended Logger Placement

For the best opportunity to establish a cellular connection and upload data to LogTag® Online, place the LT5GEO near the container door, at the top of the cargo or pallet stack, and outside packaging materials where practical.

For shipments using insulated packaging, or applications where packaging may reduce cellular signal strength, we recommend using an LT5GEO model with an external temperature probe. This allows the logger to be positioned for better cellular connectivity while the probe monitors the required temperature location.

Cellular connectivity depends on the availability and coverage of local cellular networks. Following these placement recommendations gives the LT5GEO the best opportunity to establish a connection and transmit recorded data to LogTag® Online.

Cellular Coverage

Cellular service is available across a wide range of countries. Supported countries are determined by the SIM service provider and are subject to change over time. Cellular service availability for your intended shipment countries should be confirmed before dispatch.

What You Need

In addition to a fully charged LT5GEO Cellular Data Logger, you will need:

- A PC, tablet, or mobile device with a modern web browser, set up with your LogTag® Online account
- A USB-C cable to charge the device
- A compatible external probe for External probe loggers (see the list of compatible probes in the specification tables)
- A 5V/5W USB wall power supply

Charging the LT5GEO

Note: Fully charging the LT5GEO before first use is strongly recommended.

For shipment monitoring or when you do not want to continuously connect your logger to a power supply, the logger must be fully charged to ensure maximum trip duration. This includes single use loggers. The LT5GEO features a rechargeable NiMH battery that is charged via a USB-C cable.

To charge the logger:

- Open the protective cap from the bottom of the device.
- Plug the USB-C end of the cable into the socket and connect to a power supply.

The logger indicates charging by illuminating the red Alert LED. When fully charged, the green OK LED will stay illuminated.

Note: If the battery is empty, the logger will not function until recharged.

Note: The LT5GEO will prioritize signaling the alarm status over the charging status if it has been added to a Location in LogTag® Online, and is connected to external power.

Standby Mode

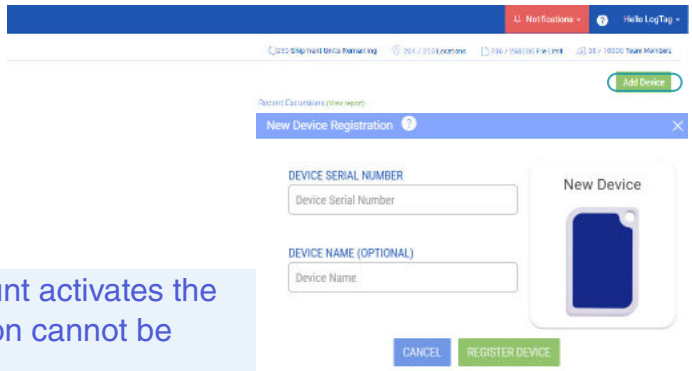
Out of the box: The LT5GEO is shipped in standby mode. The logger should be charged and configured before you begin recording.

Continuous Monitoring

Configuring for Continuous Monitoring

The LT5GEO is configured through LogTag® Online. If you are using your logger for **Shipment Monitoring**, go to **page 11**. Follow the below steps when using your logger for **Continuous Monitoring**.

Step 1: Start by navigating to LogTag® Online at https://logtagonline.com/login and login.

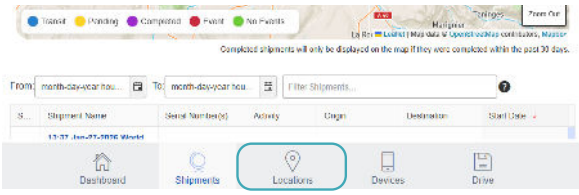


Step 2: Register your logger

- Select “Add Device”
- Enter device serial number and device name.
- Click “Register Device”

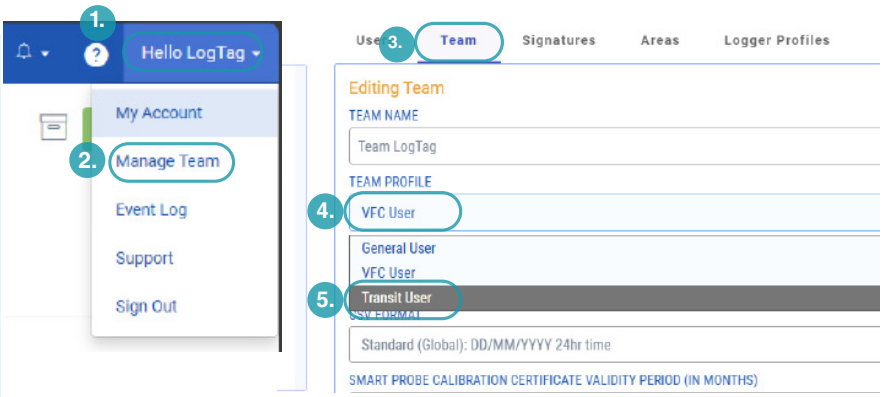
Note: Adding the LT5GEO to a LogTag® Online account activates the included subscription. Once activated, the subscription cannot be paused or transferred.

Step 3: Create a new location by navigating to the **Locations tab**. Click “Add a Location” in the top right of your screen. You will be prompted to enter your location details and team details:



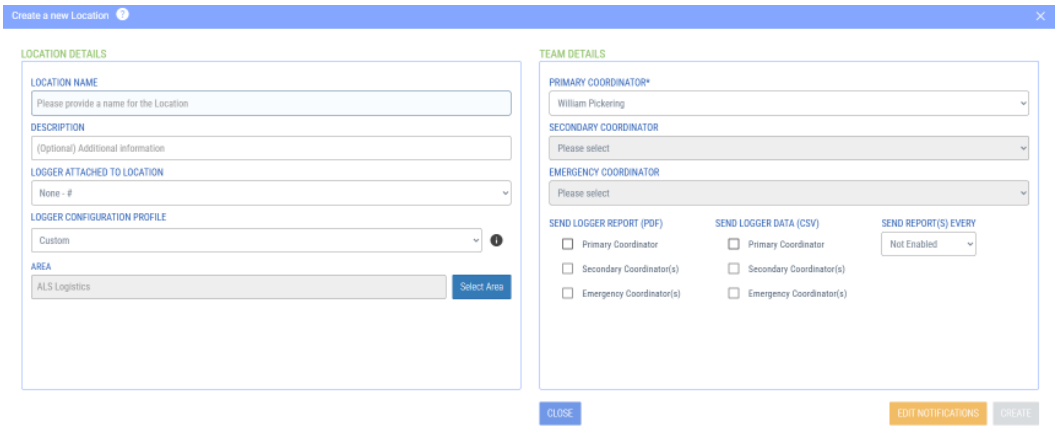
- Provide your location name
- Add your logger
- Choose your saved logger configuration profile, or create a new logger configuration profile.

Note: If you do not see the Locations Tab, this means you have a **Transit User** profile type. To change it, the profile owner will need to click on their name, go to **Manage Team**, select **Team**, then change the **TEAM PROFILE** type to **VFC User** or **General User.**



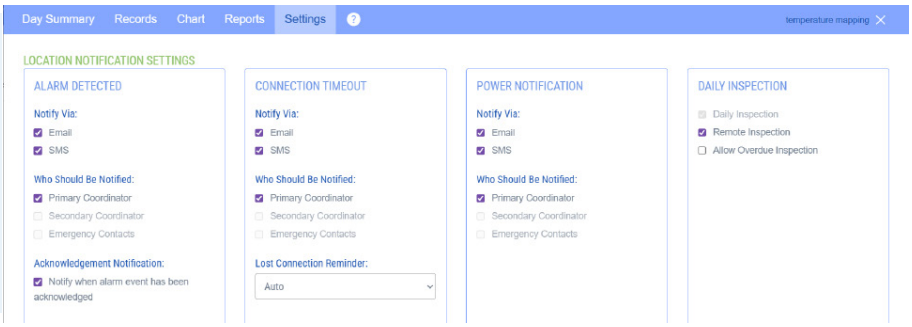
Step 4: To configure your logger, select the configuration profile from the dropdown list. To create a new profile, select **Create new**. Here you can:

- Provide a new profile name
- Set recording delay
- Set alarm settings for lower and upper threshold alarms



Step 5: Enter your team details. This will determine who will receive which notifications and reports. These can be edited later as needed. Once complete, click “create”.

Note: Transmission intervals are fixed for LT5GEO loggers. When using the loggers’ battery, the interval will be 1 hour, if you have external power supply connected, the interval will be 10 minutes. The logger will attempt to transmit during an alarm regardless of transmission interval.

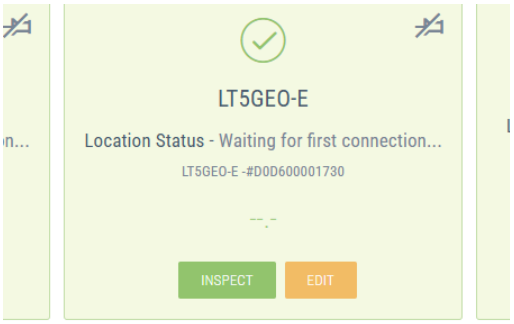


Step 6: To set up notifications via VoiceCall*, SMS*, WhatsApp*, and Email, click “Edit Notification”.

You can designate primary, multiple secondary, and emergency contacts. Each will receive alerts through their assigned notification method when triggered event occurs. The log report will also highlight any excursions.

Step 7: Once configuration is complete, scroll down and select “Save” to complete.

Step 8: After the location has been created, the location status can be reviewed from the Locations tab. After the logger has completed its first data upload, you will also see the latest temperature reading.



You can edit your location settings at any time. Click “edit” on the location you want to make changes, then you can amend or delete your location.

* Requires notification units

Starting Your LT5GEO

Note for **External Probe models only**: Before you start using your **external probe logger,** please ensure your external probe is connected to your logger.

1. Press and hold the **Start/Check** button for 4 seconds and stop when the green and red LED's flash in sequence.

Note: If the red ALERT LED remains solid for 3 seconds after the green and red flashing sequence, then your LT5GEO has a low battery and requires charging. Charge your logger before adding it to a shipment, or connect it to external power in continuous monitoring applications.

Hold the **Start/Check** button.

Green and Red LEDs flash in sequence.

Once started, the logger will:

- Begin recording environmental and positioning data and transmit it to LogTag® Online.
- Connect to your LogTag® Online account and check for any configuration updates.

If you selected start delay, readings will be recorded and uploaded to LogTag® Online after the start delay has elapsed.

During Recording

While the logger is recording, the LT5GEO transmits recorded environmental data to the LogTag® Online via cellular connectivity, allowing you and your team to view your data from anywhere, anytime.

The LT5GEO internal sensor loggers record the following environmental and location data:

- Temperature, Humidity, Geo-location, Light level, and Shock

The LT5GEO external probe loggers record the following environmental and location data:

- Temperature, Geo-location, Light level, and Shock

Note: The first connection to LogTag® Online requires the logger to register with your local carrier network. This can take time and delay the first data upload.

Cellular Coverage

Cellular service is available across a wide range of countries. Supported countries are determined by the SIM service provider and are subject to change over time. Cellular service availability for your intended shipment countries should be confirmed before dispatch.

Logger Alerts and LED Indicators

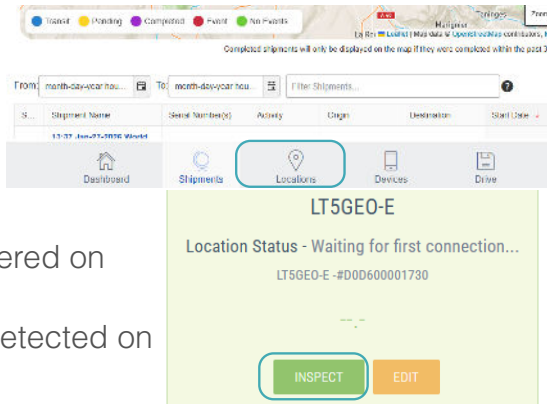
The LT5GEO features two LED lights, providing an at-a-glance display of the logger's status. If the logger is indicating that an alarm has been triggered, depending on the notification settings, you will receive an alert notification.

Green OK LED	Red Alert LED	Visual	Indicates
Logger State: Recording **Action:** None			
1 blink every 4 seconds		- - - -	Logging normally
1 blink every 8 seconds		- -	Logging stopped, data to be uploaded
	1 blink every 4 seconds	- - - -	Logging, alarm triggered
	1 blink every 8 seconds	- -	Logging stopped, alarm triggered, data to be uploaded
Logger State: Recording **Action:** Press the Start/Check button for 1 second			
Solid for 3 seconds		—	Battery OK, logging normally
	Solid for 3 seconds	—	Logger is recording, battery level is not sufficient to upload data to LogTag® Online
Flashing		- - - - - -	Battery OK, last upload attempt was unsuccessful. Transmission will resume at next upload interval
	Flashing	- - - - - -	Logger recording, battery level not sufficient to upload data to LogTag® Online, the last upload attempt was unsuccessful
Logger State: Stopped or Standby **Action:** None			
Solid		—	Connected to power, charging complete
	Solid	—	Connected to power, charging
Logger State: Stopped or Standby **Action:** Press the Start/Check button for 1 second			
Solid for 3 seconds		—	Battery OK, ready to start recording
	Solid for 3 seconds	—	The battery level is not sufficient for a trip, charge your logger

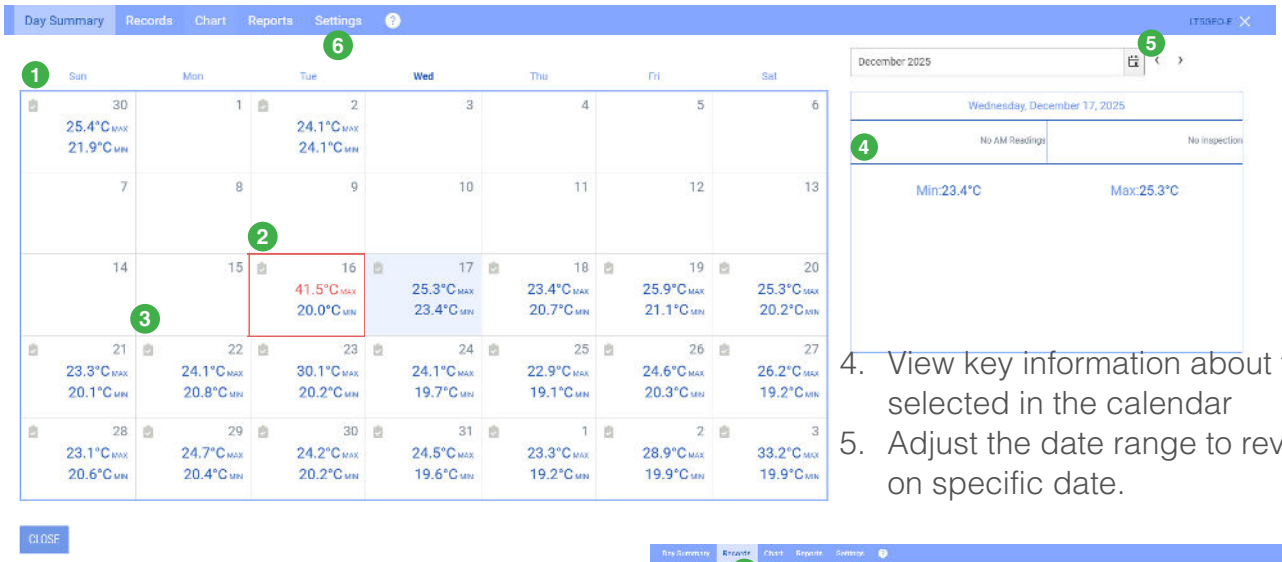
Accessing Continuous Monitoring Data

Continuous Monitoring readings:

To access data in a location, go to the **Locations Tab**, click **Inspect** on the location you want to view.



1. The **Day Summary** displays a calendar with daily minimum and maximum values.
2. The day is marked with a red outline when an alert has been triggered on that day.
3. The **MIN/MAX** shows the minimum and maximum temperature it detected on the day.

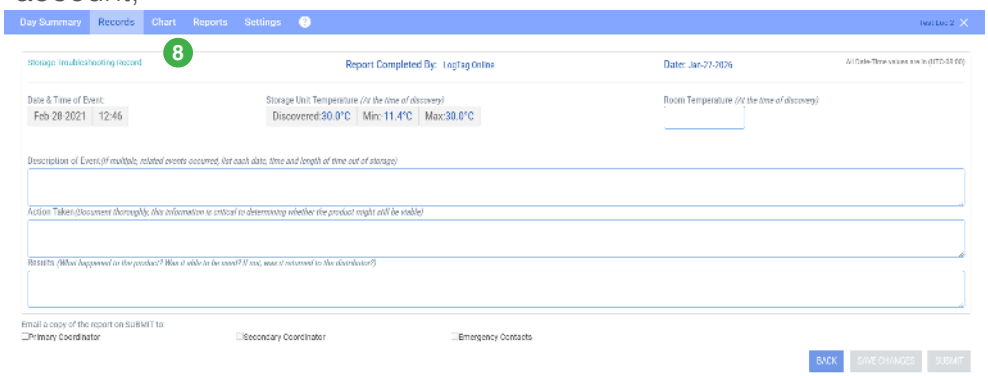


4. View key information about the date selected in the calendar
5. Adjust the date range to review data on specific date.

6. You can change your configuration, alert settings in **Settings** tab.
7. **Records tab** shows a list of any unacceptable storage events, such as data that are outside alarm limits. You can add details to the incident in trouble shooting report.

7a. Click on **Create Report** to add details about the incident. This helps create a record of steps taken in your account, ensuring all the relevant information is easy to access at audit time.

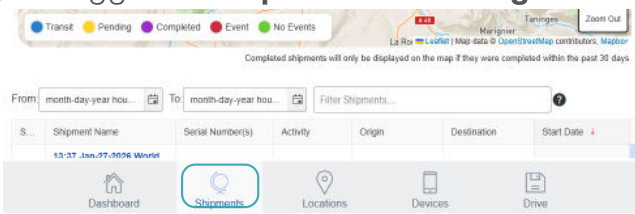
8. Complete the relevant boxes of the incident report and click **submit**. A copy of the report will be emailed to key personnel.



Shipment Monitoring
Configuring for Shipment Monitoring

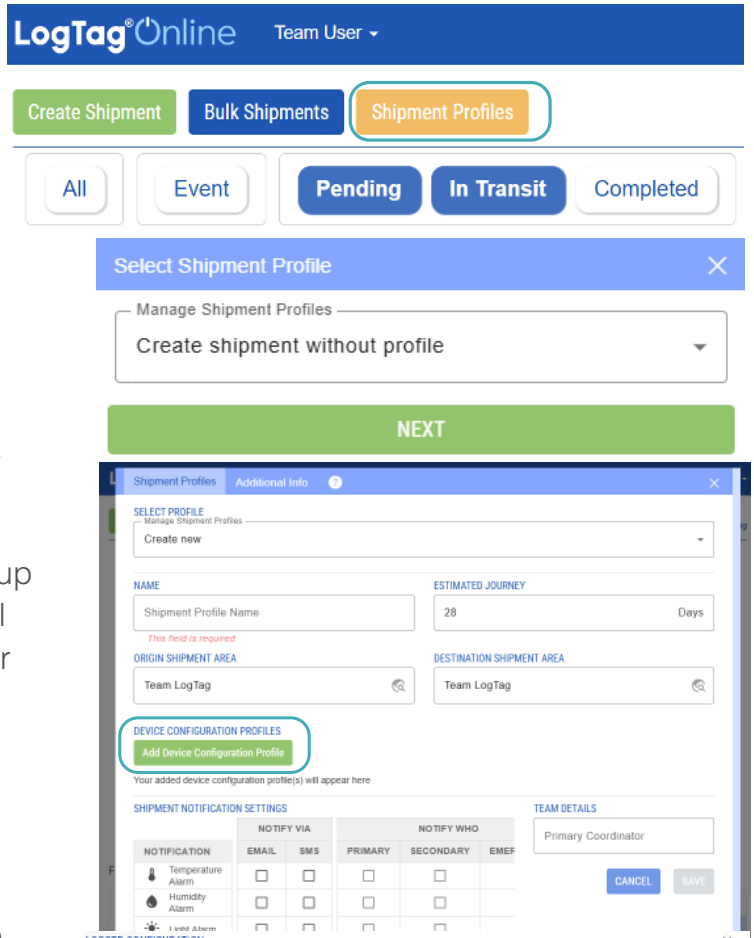
The LT5GEO is configured through LogTag® Online. If you are using your logger for **Continuous Monitoring**, go to **page 6**. Follow the below steps when using your logger for **Shipment Monitoring**.

Step 1: Navigate to LogTag® Online at https://logtagonline.com/login and create an account, or login. You will need Transit or General account. Click the Shipments tab at the bottom of your screen.



Note: If you cannot see the Shipments tab, this means you have a **VFC User** profile type. The profile owner will need to click on their name, go to **Manage Team**, select **Team**, then change the **TEAM PROFILE** type to **Transit User** or **General User.**

Step 2: If admin has created shipment profiles for you, select "Create Shipment", and select the one you want to apply, then jump to **step 4.** If you do not have shipment profile, go to **step 3a**.

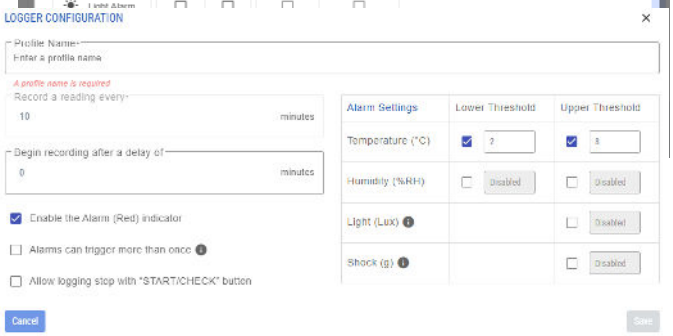


Step 3a: To create a new shipment profile, click on "Shipment Profile" and select "Create new" from the dropdown menu, and:

- Name your shipment profile.
- Define the origin location and destination location.
- Add the estimated number of days for the journey.
- Edit Shipment notification settings.

Step 3b: Add Device Configuration Profile can set up your default logger configuration for the logger model selected. You can select a previously saved profile, or **create new** configuration settings by:

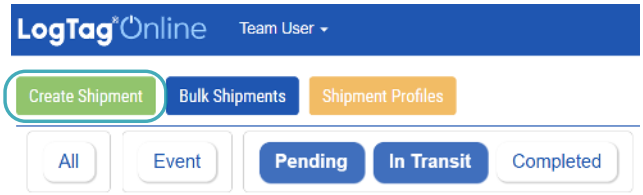
- Assigning a profile name.
- Set how frequently the logger takes a recording, between 5 minutes and 18 hours
- Configuring alarm thresholds.
- Set a recording delay, which determines when the logger starts recording after pressing Start.
- Setting the Lower Threshold and Upper Threshold alarm values.
- Choosing whether alarms can trigger multiple times.
- Enabling the option to stop logging using the START/CHECK button.

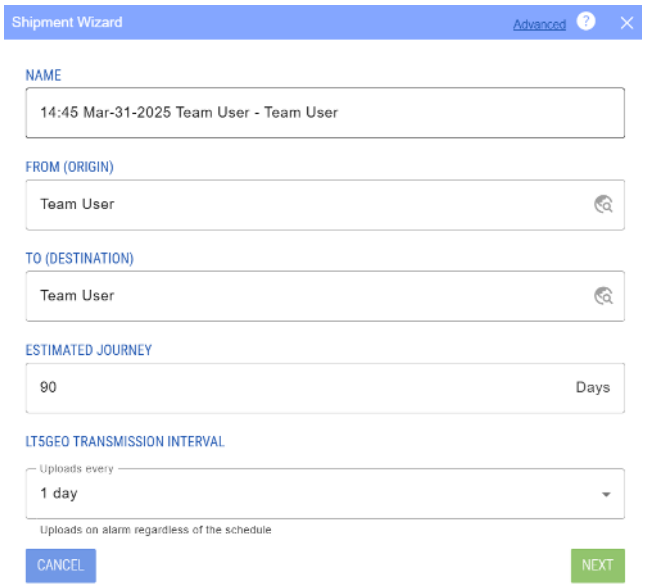


Click "Save". You will be returned to the Shipments Tab.

Step 4: In the Shipments Tab, click **Create Shipment**. The **Shipment Wizard** will appear. Here, you can:

- Name your shipment.
- Define the origin location and destination location.
- Add the estimated number of days for the journey.
- Set the LT5GEO transmission interval.

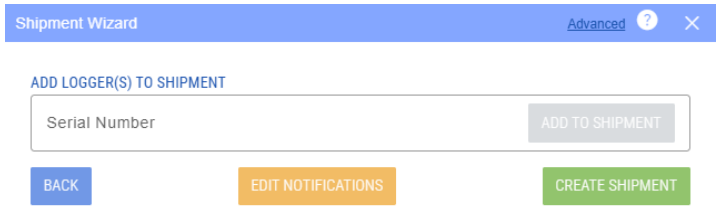




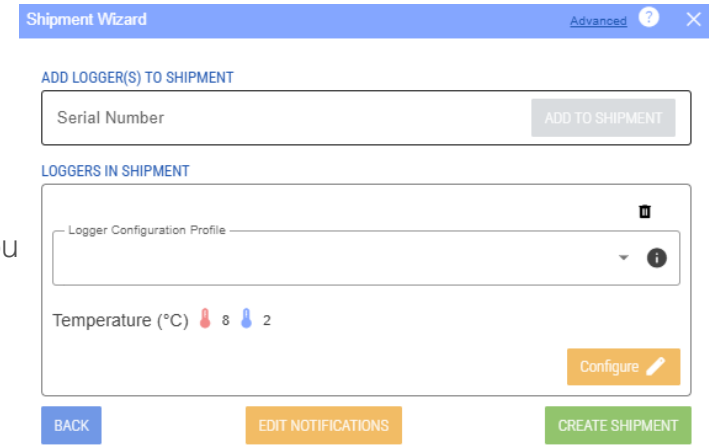
Transmission interval is defined as how frequently the logger attempts to upload data to LogTag® Online.

Note: The LT5GEO transmission interval will impact the estimated journey length. The longer the interval between transmissions, the longer the estimated journey will be. The logger will attempt to transmit during an alarm regardless of transmission interval.

Step 5: After completing the wizard and selecting Next, you will be prompted to enter your logger's serial number (S/N).



Once you've entered the serial number, click "Add to Shipment". If you have added a default configuration setting in your Shipment Profile, it will be applied to the set loggers. If you do not have a Device Configuration profile set up, you will be prompted to make one when your logger is added. Go to **step 3b** for more information.

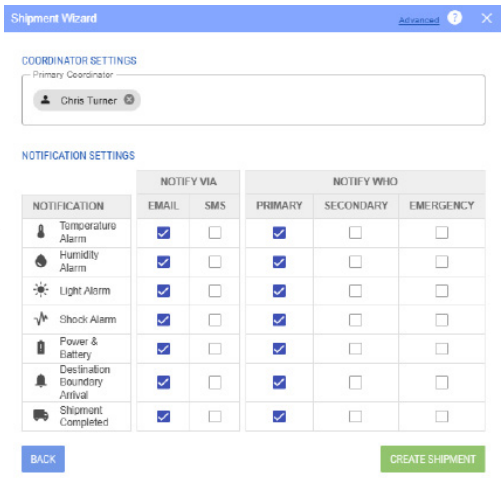


Once you have saved your configuration profile, you can add more loggers to the same shipment.

Click Save when you have completed configuring all your loggers.

Step 6: You will be taken to a final overview of your logger setup. If you need to adjust your configuration settings, select Configure to return to the Configuration window.

Step 7: To set up via VoiceCall*, SMS*, WhatsApp*, and Email, click "Edit Notification".



You can designate primary, multiple secondary, and emergency contacts. Each will receive alerts through their assigned notification method when triggered event occurs. The log report will also highlight any excursions.

Step 8: Once configuration is complete, select "Create Shipment" to complete the Shipment Wizard.

* Requires notification units

Starting Your LT5GEO

Note for **External Probe models only**: Before you start using your **external probe logger,** please ensure your external probe is connected to your logger.

1. Press and hold the **Start/Check** button for 4 seconds and stop when the green and red LED's flash in sequence.

Note: If the red ALERT LED remains solid for 3 seconds after the green and red flashing sequence, then your LT5GEO has a low battery and requires charging. Charge your logger before adding it to a shipment, or connect it to external power in continuous monitoring applications.

Hold the **Start/Check** button.

Green and Red LEDs flash in sequence.

Once started, the logger will:

- Begin recording environmental and positioning data and transmit it to LogTag® Online.
- Connect to your LogTag® Online account and check for any configuration updates.

If you selected start delay, readings will be recorded and uploaded to LogTag® Online after the start delay has elapsed.

During Recording

While the logger is recording, the LT5GEO transmits recorded environmental data to the LogTag® Online via cellular connectivity, allowing you and your team to view your data from anywhere, anytime.

The LT5GEO internal sensor loggers record the following environmental and location data:

- Temperature, Humidity, Geo-location, Light level, and Shock

The LT5GEO external probe loggers record the following environmental and location data:

- Temperature, Geo-location, Light level, and Shock

Note: The first connection to LogTag® Online requires the logger to register with your local carrier network. This can take time and delay the first data upload.

Cellular Coverage

Cellular service is available across a wide range of countries. Supported countries are determined by the SIM service provider and are subject to change over time. Cellular service availability for your intended shipment countries should be confirmed before dispatch.

Logger Alerts and LED Indicators

The LT5GEO features two LED lights, providing an at-a-glance display of the logger's status. If the logger is indicating that an alarm has been triggered, depending on the notification settings, you will receive an alert notification.

Green OK LED	Red Alert LED	Visual	Indicates
Logger State: Recording **Action:** None			
1 blink every 4 seconds		- - - -	Logging normally
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	1 blink every 4 seconds	- - - -	Logging, alarm triggered
	1 blink every 8 seconds	- -	Logging stopped, alarm triggered, data to be uploaded
Logger State: Recording **Action:** Press the Start/Check button for 1 second			
Solid for 3 seconds		—	Battery OK, logging normally
	Solid for 3 seconds	—	Logger is recording, battery level is not sufficient to upload data to LogTag® Online
Flashing		- - - - - -	Battery OK, last upload attempt was unsuccessful. Transmission will resume at next upload interval
	Flashing	- - - - - -	Logger recording, battery level not sufficient to upload data to LogTag® Online, the last upload attempt was unsuccessful
Logger State: Stopped or Standby **Action:** None			
Solid		—	Connected to power, charging complete
	Solid	—	Connected to power, charging
Logger State: Stopped or Standby **Action:** Press the Start/Check button for 1 second			
Solid for 3 seconds		—	Battery OK, ready to start recording
	Solid for 3 seconds	—	The battery level is not sufficient for a trip, charge your logger

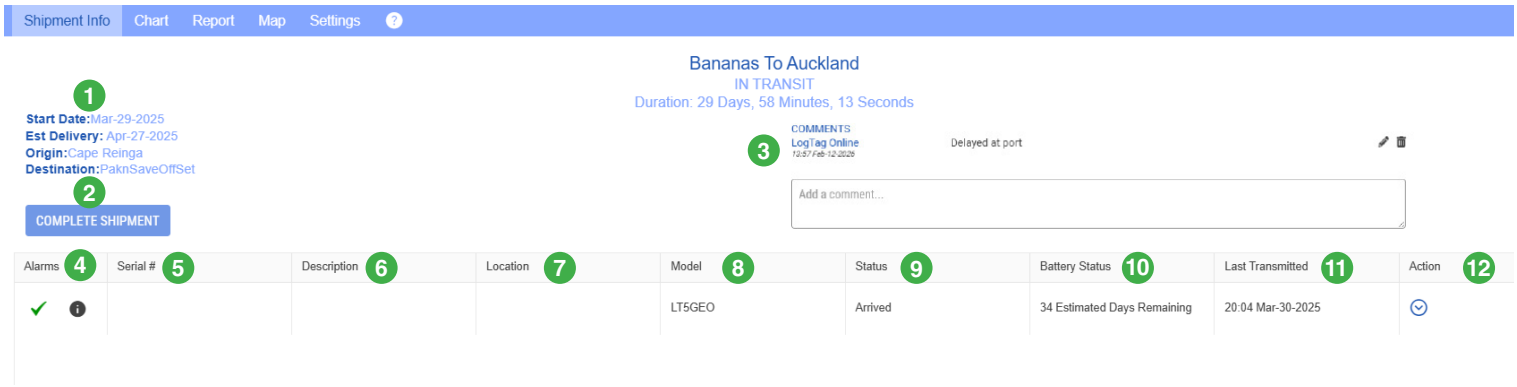
Accessing Shipment Information

Select the shipment you want to view from the list under the **Shipment map**. If you can not see the shipment you want to view, you can use the filter or search bar. The **Shipment Info** window provides key details about your shipment.

1. The **shipment overview** includes start date, estimated delivery, origin and destination locations.
2. The "**Complete Shipment**" button allows users to manually mark a shipment as delivered. If no logger data has been uploaded, the status will be marked as **Missing**.

Note: Once a shipment has been marked as **Complete**, data will not longer be added to your shipment, and you can no longer make changes to your shipment.

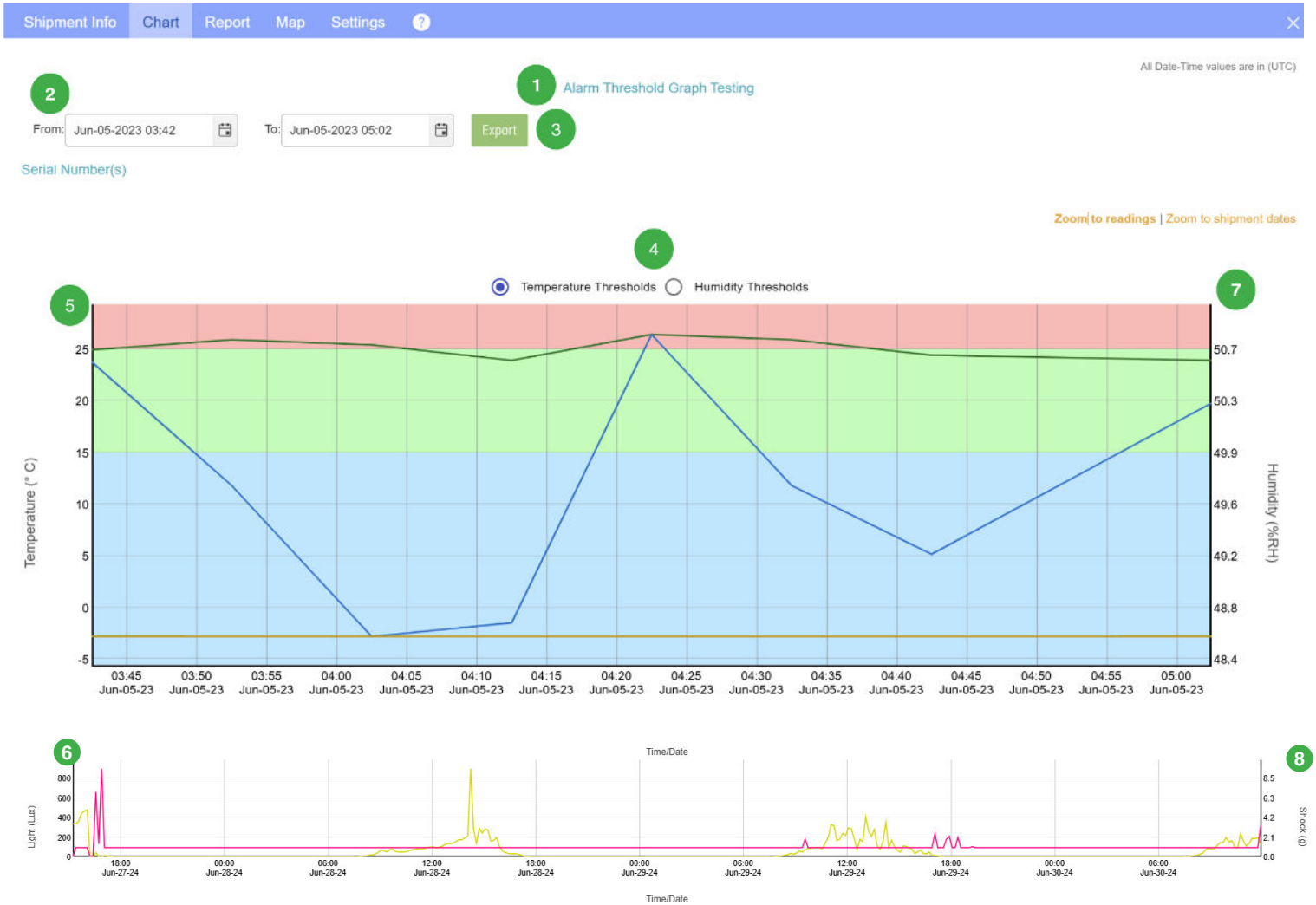
3. Users can **add comments** to the shipment by entering text in the comment box and clicking "**Save**" or "**Cancel**" buttons that appear when users start typing. Comments can be edited or deleted using the pencil or trash can icon next to saved comments.
4. If no alarm event occurred during the shipment, a **tick symbol** will be displayed. If an alarm was triggered, a **cross symbol** will be displayed.
5. The logger's **serial number** is listed. If multiple loggers are attached to the shipment, each will be displayed in their own line in the table.
6. A **description** can be added to each logger in the table. Users can edit or delete their own comments by selecting the arrow in the action column and clicking "**edit**".
7. Users can change the order of loggers in the table by selecting the arrow in the action column and clicking "**edit**". The **Up**, **Out**, and **Bottom** options will appear. Click "**Update**" to save your changes.
8. The logger **model** corresponding to the serial number is displayed.
9. The current shipment **status** of the attached logger is shown.
10. The **battery status** provides an estimated remaining battery life.
11. The **last transmitted** column outlines when the logger last transmitted data to LogTag® Online.
12. The **Action** column allows you to:
    - Edit the description and location.
    - Mark the shipment as Pending, In Transit, Completed, or Missing.
    - Remove: This will permanently delete all data from the logger and cannot be undone.



Chart

The **Chart tab** provides an interactive graph for the logger(s) attached to a shipment.

1. The shipment name is displayed as the chart title.
2. Click the “From” and “To” boxes to choose a start and end date to filter data within a specific range.
3. **Export** multi-logger shipments as a zipped CSV file, or download individual CSV files based on the selected date and time.
4. Switch between temperature and humidity thresholds*.
5. Displays **temperature** in Celsius or Fahrenheit, based on your account preferences.
6. Displays **light** (lux).
7. Displays **humidity** (%RH)*.
8. Displays **shock** (g).



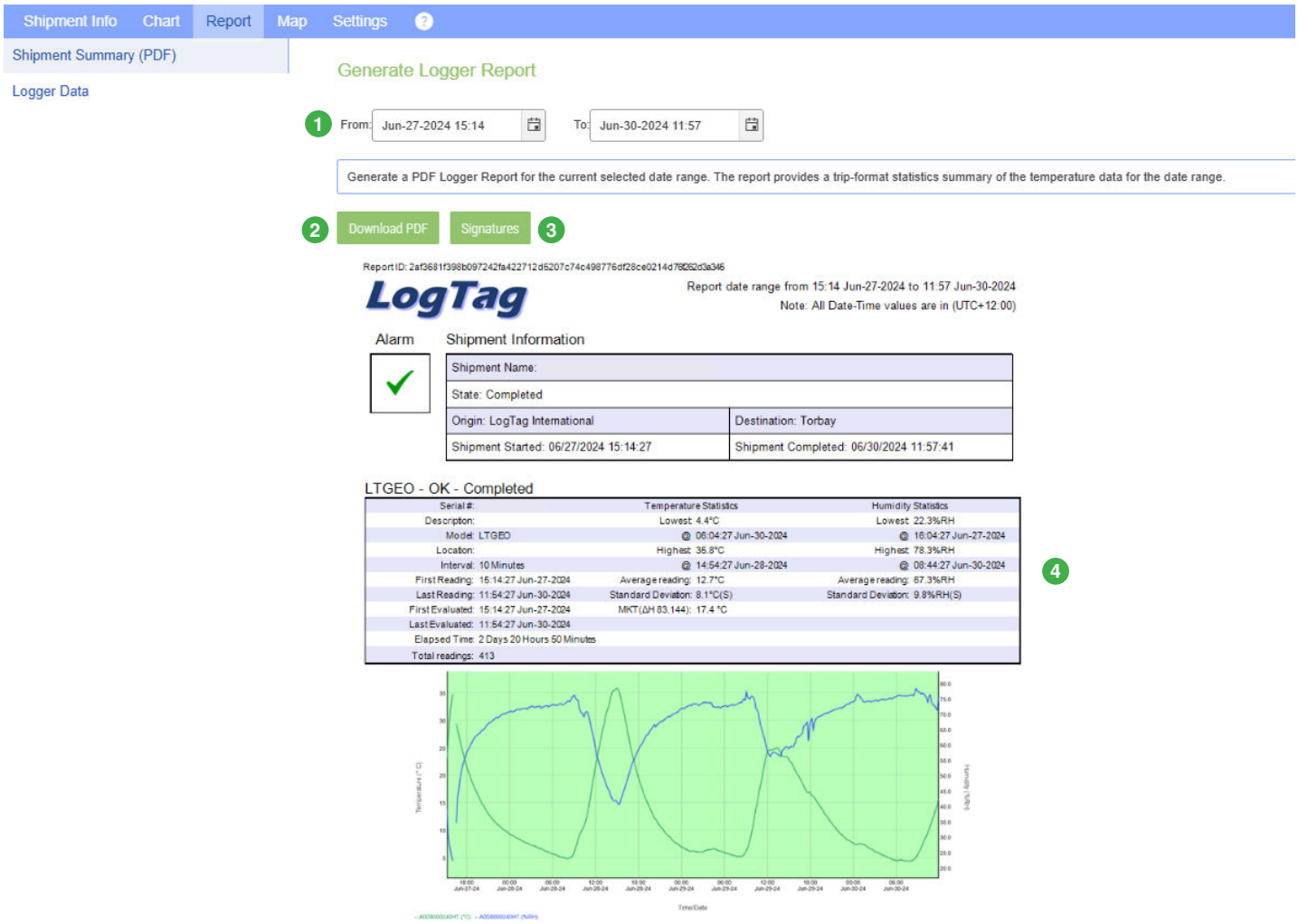
* Humidity readings are only available for LT5GEO internal sensor loggers

Report (Logger Report)

The Logger Report provides a statistics summary of environmental data for the selected date and time range. You can preview or download the report as a PDF.

If the shipment contains multiple loggers, the report will display temperature statistics for each logger with recorded data.

1. Select the "**From**" and "**To**" date and time using the calendar selector icon to filter charted data within a specific range (this will only affect the date range for the generated graph)
2. Download the following logger report as a PDF, which includes a statistics summary and an image of the chart.
3. Apply signatures to delivered shipments, account permission required.
4. Preview the PDF logger report, including the charted data. If multiple loggers are in the shipment, all their data will appear in the report.



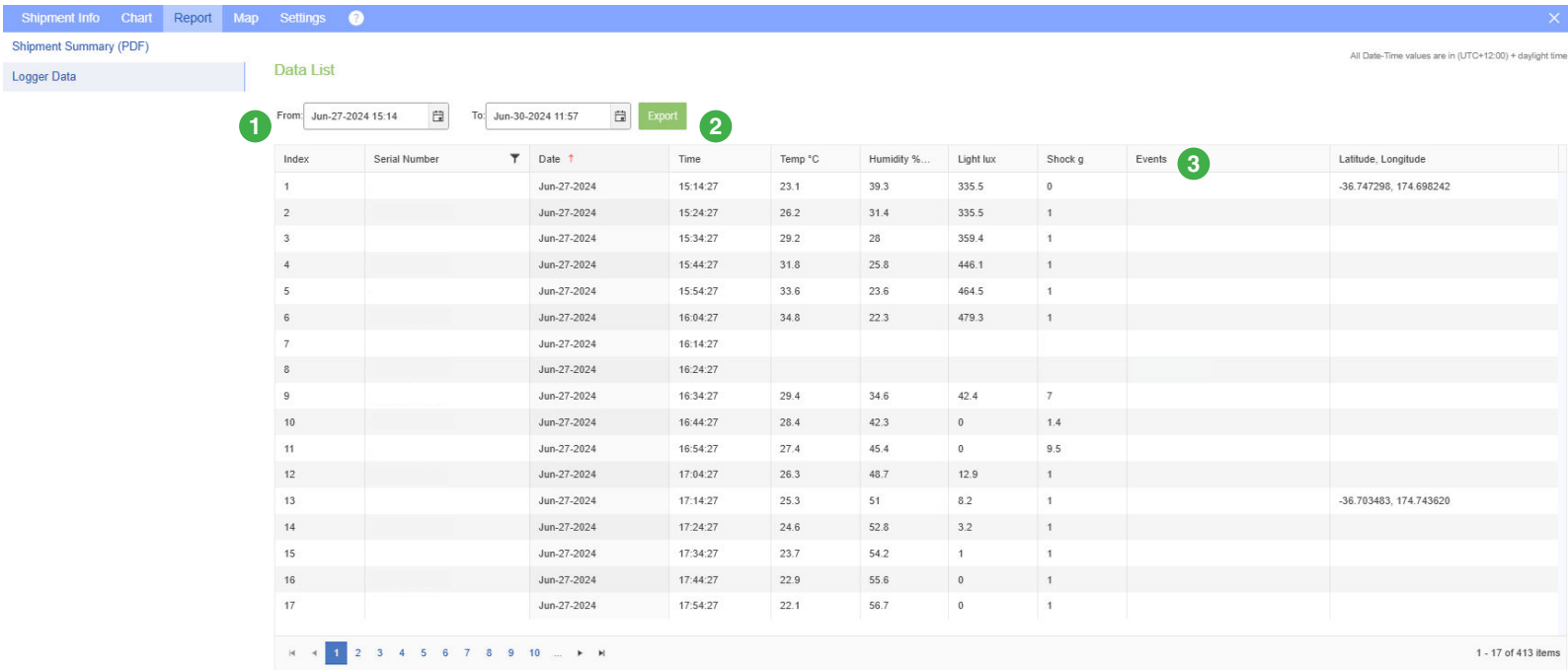
Signatures: To apply a signature to a delivered shipment, click the Signatures button. If your admin had set up your account to assign signatures, a Signatures window will open. Select the appropriate signature from the drop down menu and confirm by clicking **Yes** or cancel by clicking **No**. Once applied, the signature will appear in the records table and in the LTD files exported from the Chart tab.

Report (Logger Data)

The **Logger Data** tab displays all recorded readings, along with recorded events and other key details in a table format based on the selected date and time range.

1. Select the “From” and “To” date and time using the calendar date selector to filter readings taken within a specific range.
2. Click the Export button to generate a PDF file of the logger data list for the selected date and time range.
3. Events show a record of critical actions, alarms, or system changes during recording like,
   - Inspection Mark
   - Readings Not Displayed
   - Alarm Acknowledged
   - Device Power Loss
   - Lower Alert
   - Above Alert

     and/or other events

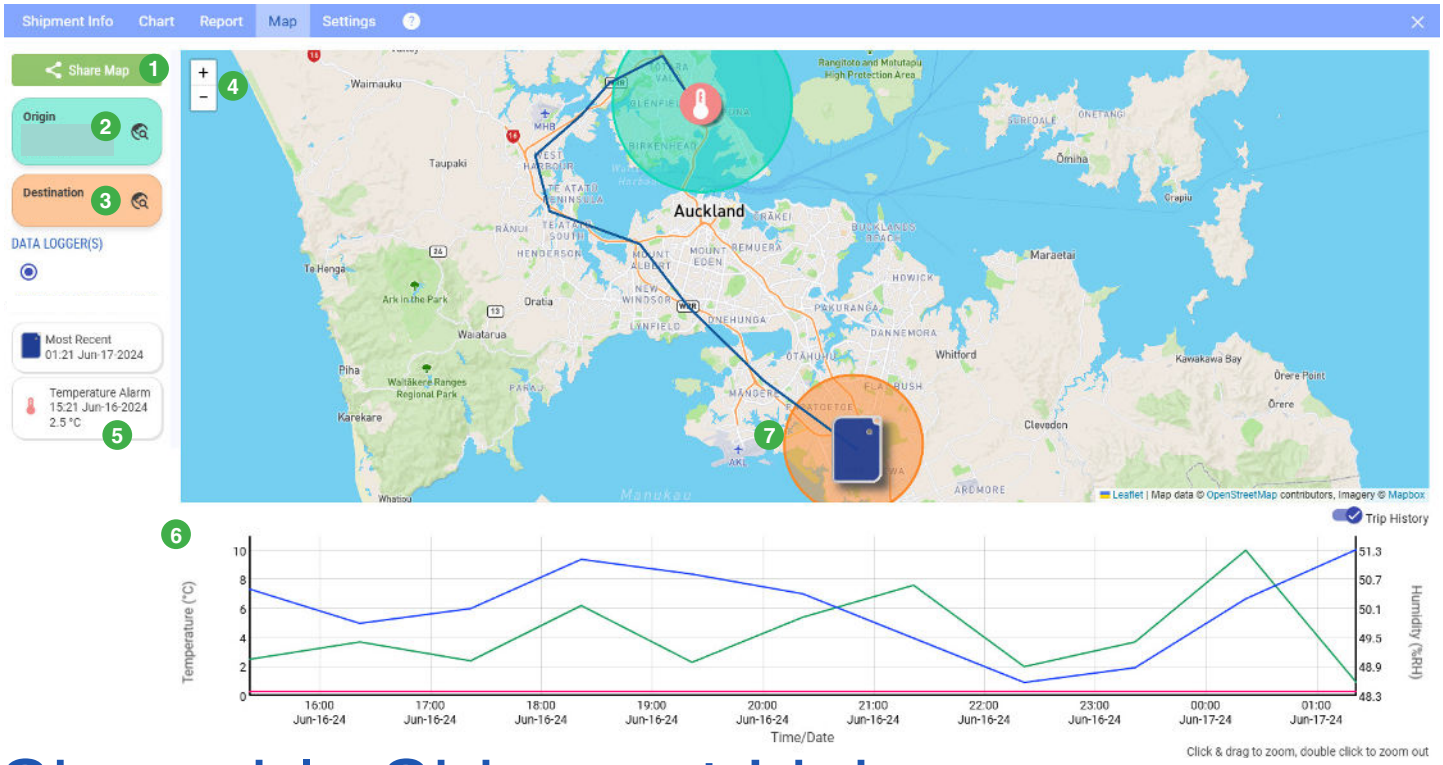


Index	Serial Number	Date	Time	Temp °C	Humidity %...	Light lux	Shock g	Events	Latitude, Longitude
1		Jun-27-2024	15:14:27	23.1	39.3	335.5	0		-36.747298, 174.698242
2		Jun-27-2024	15:24:27	26.2	31.4	335.5	1		
3		Jun-27-2024	15:34:27	29.2	28	359.4	1		
4		Jun-27-2024	15:44:27	31.8	25.8	446.1	1		
5		Jun-27-2024	15:54:27	33.6	23.6	464.5	1		
6		Jun-27-2024	16:04:27	34.8	22.3	479.3	1		
7		Jun-27-2024	16:14:27						
8		Jun-27-2024	16:24:27						
9		Jun-27-2024	16:34:27	29.4	34.6	42.4	7		
10		Jun-27-2024	16:44:27	28.4	42.3	0	1.4		
11		Jun-27-2024	16:54:27	27.4	45.4	0	9.5		
12		Jun-27-2024	17:04:27	26.3	48.7	12.9	1		
13		Jun-27-2024	17:14:27	25.3	51	8.2	1		-36.703483, 174.743620
14		Jun-27-2024	17:24:27	24.6	52.8	3.2	1		
15		Jun-27-2024	17:34:27	23.7	54.2	1	1		
16		Jun-27-2024	17:44:27	22.9	55.6	0	1		
17		Jun-27-2024	17:54:27	22.1	56.7	0	1		

Map

The **Map** tab allows users to interactively view their logger on a map and see the recorded data, such as location, temperature, humidity*, light, and shock.

1. Shareable link "**Share Map**" button where you can create a link that will share the logger status to external stakeholders to view.
2. You can select the **origin tab** to zoom in automatically to view location closer on the map.
3. You can select the **destination tab** to zoom in automatically to view location closer on the map.
4. Use the + and - icons to zoom in and out of the map.
5. Click an **event** or **logger** listed in the side panel to view a quick breakdown of the logger's serial number, the time and date of the last recorded location or event location, and the last recorded temperature, humidity*, light, and shock readings. The map will zoom in to the where the alarm was triggered.
6. Chart view displays Temperature, Humidity*, Light, and Shock data.
7. View the loggers last recorded location on the map.

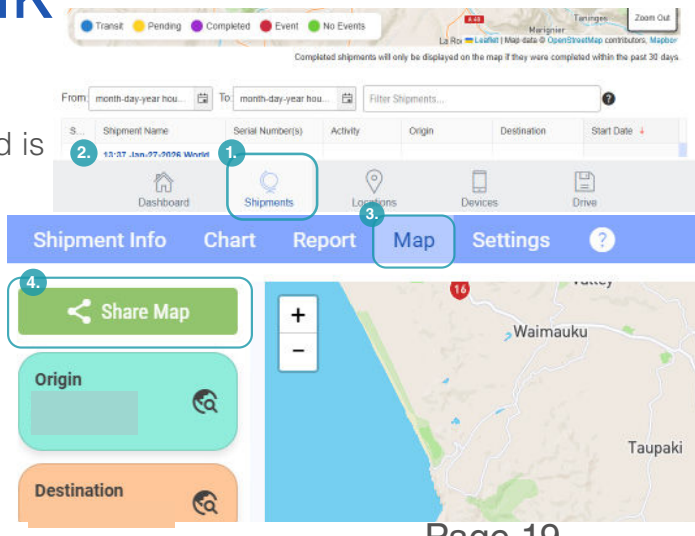


Shareable Shipment Link

When you need to share the status of a shipment with someone not in your LogTag® Online team, you can use Shareable Links that show all the shipment information, and is regularly updated.

Click on the shipment you want to share in the **Location Tab** to open the **Shipment Info** window. **Click Map** at the top of the window.

Click the **Share Map** button to create the link. Once you send the link to the person you want to share the shipment status with, they will be able to view the map and alerts of the loggers in the shipment that is automatically updated.



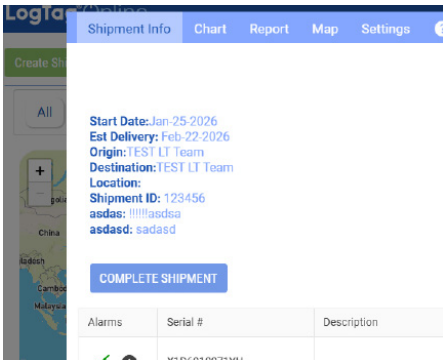
Data Recovery

If you have finished monitoring your goods but no LEDs light up on the LT5GEO when you press the **Start/Check** button, follow these steps:

1. Connect your LT5GEO to your USB charging cable. If the battery is very low, the red LED will blink slowly, and data transmission will not be immediately possible. Charge the unit until the red Alert LED lights up steadily. Once the solid green LED illuminates, the LT5GEO is fully charged. Disconnect the charger and press the Start/Check button again to upload the data via the cellular network. The data will appear in LogTag® Online shortly after.
2. If charging does not resolve the issue or the data is required immediately, connect the logger to a PC and visit http://lt.help/resq in your browser. Follow the instructions to download the ResQ program that extracts the data from the LT5GEO and uploads it to LogTag® Online via your Internet connection.

Completing the Shipment

To reuse your multi-use logger, you must first complete the shipment it is assigned to.



Your LT5GEO will automatically complete the shipment two weeks after the first location reading within the shipment's set **destination boundary**. If you want to stop the logger from recording before then, you can manually complete the shipment by going to the Shipment tab, selecting the shipment, and clicking Complete Shipment.

Note: Any data that has not yet been transmitted to LogTag® Online will not be added to the shipment. Please ensure all required data has been uploaded before completing the shipment.

Press and release the Start/Check button (1 second). This will transmit any remaining data to LogTag® Online. Your logger will confirm a successful upload by lighting up the green LED for 3 seconds.

If you have access to the shipment in LogTag® Online, click **Complete Shipment** in the **Shipment Info** tab to stop the logger recording additional data.

Resources:

To learn more about LogTag® Online features, visit: https://logtagrecorders.com/logtag-online/

To login or create a LogTag® Online account, go to the LogTag® Online portal at https://logtagonline.com/

Once you have logged in to LogTag® Online, you can access the Help Center by clicking ? in the top right of your screen. You can search our library of common questions and answers.

For more support inquiries, contact support@logtagrecorders.com.

LT5GEO Internal Technical Specifications

Product Models	LT5GEO-S (Single-Use) LT5GEO-M (Multi-Use)
Connectivity	LTE Cat M1/EGPRS
Sensor Measurement Range	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature Range	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature Range	0 °C to +40 °C (+32 °F to +104 °F)
Humidity Measurement Range	0 %RH to 100 %RH (non-condensing), with limitations
Humidity Operating Range	0 %RH to 100 %RH (non-condensing), with limitations
Storage Humidity Range	5 %RH to 95 %RH non-condensing
Rated Temperature Reading Accuracy	Better than ±0.45 °C (±0.8 °F) for +0 °C to +50 °C (+32 °F to +122 °F), typically ±0.3 °C (0.6 °F) Better than ±0.8 °C (±1.4 °F) for +50 °C to +70 °C (+122 °F to +158 °F), typically ±0.5 °C (0.9 °F) Better than ±0.95 °C (±1.7 °F) for -40 °C to +0 °C (-40 °F to +32 °F), typically ±0.6 °C (1.1 °F) Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration
Rated Humidity Reading Accuracy	Better than ±3 %RH for 20 %RH to 80 %RH, typically ±2 %RH Better than ±5 %RH for 0 %RH to 20 %RH, typically ±4 %RH Better than ±5 %RH for 80 %RH to 100 %RH, typically ±4 %RH Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration
Light Sensor Range	0-120,000 lux
Shock Sensor Measuring Range	0-16g
Shock Sensor Resolution	0.1g 1 m/s^2
Recording Capacity	16,320 local logger memory. 1 million recordings with LogTag® Online
Transmission Interval	20 minutes-24 hours, depending on trip duration set through LogTag® Online Uploads immediately when alarm is triggered, regardless of transmission interval.
Sampling Interval	Configurable from 5 minutes to 18 hours
Logging Start Options	Push button start, with configurable delay, from 1 minute to 72 hours
Environmental	IP61
Software	LogTag® Online and (optional) LogTag® Mobile App
Power Source	NiMH rechargeable battery
Battery Life	Transmission interval adjusts according to trip duration set in LogTag® Online. Maximum on-battery length 100 days.
Connection Interface	USB 2.0 / USB Type C Metal plug
Size	90mm(H)x68mm(W)x25mm(L)
Weight	175g
Case Material	Polycarbonate

LT5GEO External Technical Specifications

Product Models	LT5GEO-E-S (Single-use) LT5GEO-E-M (Multi-use)
Connectivity	LTE Cat M1/EGPRS
Sensor Measurement Range	-40 °C to +99 °C (-40 °F to +210 °F)
Operating Temperature Range	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature Range	0 °C to +40 °C (+32 °F to +104 °F)
Rated Temperature Reading Accuracy	Better than ±0.5 °C (±0.9 °F) for -20 °C to +40 °C (-4 °F to +104 °F), typically ±0.3 °C (0.6 °F) Better than ±0.8 °C (±1.4 °F) for -40 °C to -20 °C (-40 °F to -4 °F), typically ±0.5 °C (±0.9 °F) Better than ±0.8 °C (±1.4 °F) for +40 °C to +70 °C (+104 °F to +158 °F), typically ±0.7 °C (±1.3 °F) Better than ±1.2 °C (±2.2 °F) for +70 °C to +99 °C (+158 °F to +210 °F), typically ±1 °C (±1.8 °F) Actual performance is typically much better than the rated values Accuracy figures can be improved by recalibration
Light Sensor Range	0 – 120,000 lux
Shock Sensor Measuring Range	0-16g
Shock Sensor Resolution	0.1g 1 m/s^2
Shock Sensor Sampling Rate	25Hz
Recording Capacity	16,320 local logger memory. 1 million recordings with LogTag® Online
Transmission Interval	20 minutes-24 hours, depending on trip duration set through LogTag® Online Uploads immediately when alarm is triggered, regardless of transmission interval
Sampling Interval	Configurable from 1 minute to 18 hours
Logging Start Options	Push button start, with configurable delay, from 1 minute to 72 hours
Environmental	IP61
Software	LogTag® Online, and (optional) LogTag® Mobile App
Battery Type	Non Lithium Rechargeable Nickle Metal Hydride (NiMH)
Battery Life	Transmission interval adjusts according to trip duration set in LogTag® Online. External power supply recommended. Maximum on-battery length 100 days.
Connection Interface	USB 2.0 / USB Type C Metal plug
Size and Weight	90mm(H) x 68mm(W) x 25mm(D) - 166g
Case Material	Polycarbonate

Compatible External Probes:

Order Code	Exposed Tip Length	Tip Diameter	Length Cable
ST100K-15	65mm	ø3.2mm	1.5m (4'11")
ST100K-30	65mm	ø3.2mm	3m (9'10")
ST100S-15	22.5mm	ø5mm	1.5m (4'11")
ST100S-30	22.5mm	ø5mm	3m (9'10")

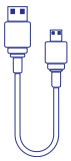
External Probe
Not Included (Recommended)

Compatible Smart Probes:

Order Code	Exposed Tip Length	Tip Diameter	Length Cable
CP100K-15	65mm	ø3.2mm	1.5m (4'11")
CP100K-30	65mm	ø3.2mm	3m (9'10")

Smart Probe
Not Included (Recommended)

Charging Accessories:



USB-C Cable
Sold Separately

AC Adapter*
Sold Separately

Explore More Probe Options:

Scan the QR Code to view the full range of External Probes.

*The LT5GEO can only be charged with a 5V/1A connector as higher voltages will damage the device.

LT5GEO Ultra-Low External Technical Specifications

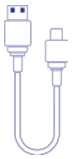
Product Models	LT5GEO-LE-S (Single-use) LT5GEO-LE-M (Multi-use)
Connectivity	LTE Cat M1/EGPRS
Sensor Measurement Range	-90 °C to +40 °C (-130 °F to +104 °F)
Operating Temperature Range	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature Range	0 °C to +40 °C (+32 °F to +104 °F)
Rated Temperature Reading Accuracy	Better than ±0.5 °C (±0.9 °F) for -20 °C to +10 °C (-4 °F to +50 °F) Better than ±0.7 °C (±1.3 °F) for -50 °C to -20°C (-58 °F to -4 °F) Better than ±0.7 °C (±1.3 °F) for +10 °C to +30 °C (+50 °F to +86 °F) Better than ±1.0 °C (±1.8 °F) for -80 °C to -50 °C (-112 °F to -58 °F) Better than ±1.0 °C (±1.8 °F) for +30 °C to +40 °C (+86 °F to +104 °F) Better than ±1.8 °C (±3.2 °F) for -90 °C to -80 °C (-130 °F to -112 °F) Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.
Light Sensor Range	0 – 120,000 lux
Shock Sensor Measuring Range	0-16g
Shock Sensor Resolution	0.1g 1 m/s^2
Shock Sensor Sampling Rate	25Hz
Recording Capacity	16,320 local logger memory. 1 million recordings with LogTag® Online
Transmission Interval	20 minutes-24 hours, depending on trip duration set through LogTag® Online Uploads immediately when alarm is triggered, regardless of transmission interval
Sampling Interval	Configurable from 1 minute to 18 hours
Logging Start Options	Push button start, with configurable delay, from 1 minute to 72 hours
Environmental	IP61
Software	LogTag® Online, and (optional) LogTag® Mobile App
Battery Type	Non Lithium Rechargeable Nickle Metal Hydride (NiMH)
Battery Life	Transmission interval adjusts according to trip duration set in LogTag® Online External power supply recommended. Maximum on-battery length 100 days.
Connection Interface	USB 2.0 / USB Type C Metal plug
Size and Weight	90mm(H) x 68mm(W) x 25mm(D) - 166g
Case Material	Polycarbonate

Compatible External Probes:

Order Code	Exposed Tip Length	Tip Diameter	Length Cable
ST10S-15	22.5mm	ø5mm	1.5m (4'11")
ST10S-30	22.5mm	ø5mm	3m (9'10")
ST10M-15	60mm	ø5mm	1.5m (4'11")

External Probe
Not Included (Recommended)

Charging Accessories:



USB-C Cable
Sold Separately

AC Adapter*
Sold Separately

Compatible Smart Probes:

Order Code	Exposed Tip Length	Tip Diameter	Length Cable
CP10S-15	22.5mm	ø5mm	1.5m (4'11")
CP10S-30	22.5mm	ø5mm	3m (9'10")

Smart Probe
Not Included (Recommended)

Explore More Probe Options:

Scan the QR Code to view the full range of External Probes.

*The LT5GEO can only be charged with a 5V/1A connector as higher voltages will damage the device.