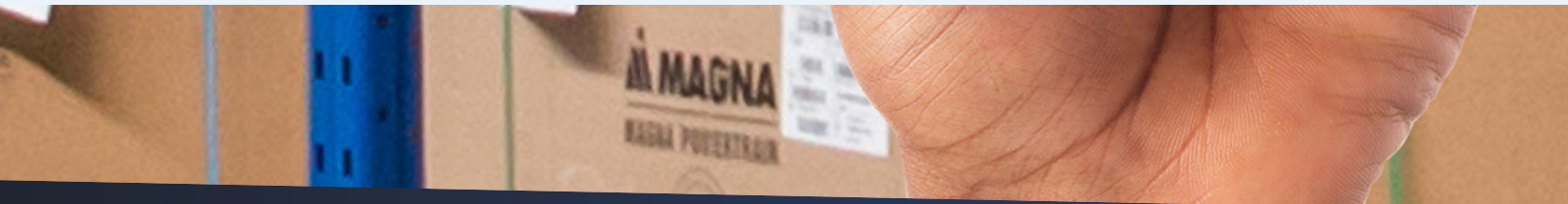
LogTag® North America Inc.



LogTag® HAXO-16BT

User Guide

www.logtag.com



Revision C (06072026)
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Liability

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

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

- If the HAXO-16BT 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 HAXO-16BT monitors environmental conditions, including temperature and humidity, 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.

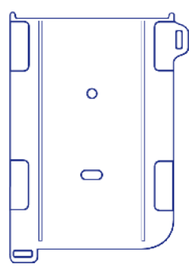
Introduction

The LogTag® HAXO-16BT is a wireless temperature and humidity data logger. Collecting data through the dedicated LogTag® Link app makes environmental monitoring simple and easy.

Data and reports can be kept locally on your mobile device, or automatically uploaded to your teams LogTag® Online account.

The LogTag® HAXO-16BT features the familiar LogTag® family design, with a user-friendly single-button operation and LCD display for at-a-glance monitoring.

Optional Accessories



Wall Mount
Not Included - Optional
Order Code: WMB-01

What You Need

In addition to your LogTag® HAXO-16BT Data Logger, you will need:

Required:
- A mobile device or tablet with Bluetooth connectivity.
- LogTag® Link app on your chosen mobile device or tablet.

Optional:
- Internet access - optional for automatic upload to LogTag® Online cloud portal.
- A LogTag® Online account - optional cloud portal.

Activate a Paid Account (optional)

A free LogTag® Online account is used for secure cloud storage for data and reports with team access.

A paid LogTag® Online account grants access to the following premium features:
- Remote notifications
- Automatic report sending
- Event log export
- Signatures
- Area management
- Bulk shipment creation
- Device profile management
- Shipment profiles
- Extended data access

If you do not have an account, go to www.logtagonline.com and create one.

Purchase your required activation code from your distributor. The account admin will need to click on the account name, then **My Account**.

Add your activation code in the Activation Codes tab. When complete, you will see the code and expiry date in the Current Activation Codes list.

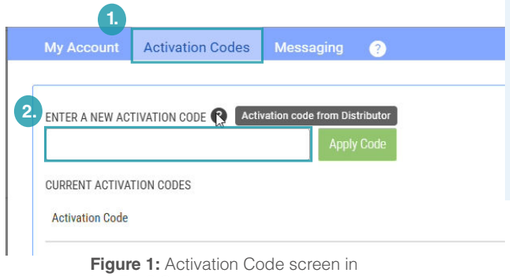


Figure 1: Activation Code screen in LogTag® Online

Which Activation Code Do I Need?

When using your HAXO-16BT to track logistics and transportation, you will need Shipment Units to activate a paid account.

When using your HAXO-16BT to monitor a fixed asset such as a fridge or freezer, you will need an annual, single sensor subscription.

Notification Units

Notification Units are used when alarms are sent by Voicecall, SMS, or WhatsApp.

Activation codes include 500 Notification Units per year. Additional Notification units can be added at any time from your distributor.

The number of units consumed for each alert varies based on the notification method and, for SMS messages, local messaging rates.

Download Mobile App

To use the HAXO-16BT logger, you will need the latest version of the dedicated LogTag® Link mobile app. The app is available on both the Apple App Store and Google Play Store.

The LogTag® Link apps allows you to set alarm settings, view and download data, and generate reports.

LogTag® Link

Scan or click to download

GET IT ON Google Play

Download on the App Store

Figure 2: LogTag® Link app icon

Google Play is a trademark of Google LLC.
Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.

Case Features



Figure 3: HAXO-16BT case features



Figure 4: HAXO-16BT rear label

Buttons

The **START/REVIEW/STOP** button is used to start the device and review on screen data. It will henceforth be referred to as the **START** button.

Sensors

The HAXO-16BT features two internal sensors that ensure precise accuracy and reliable monitoring:
1. **Temperature:** Measures temperature readings between -20 °C to +70 °C (-4 °F to +158 °F)
2. **Humidity:** Measures humidity readings between 0 %RH and 100 %RH

Battery Life

The non-replaceable battery in the HAXO-16BT is designed to power the device for up to 1 year of typical use provided:
- The device was not stored for more than 3 years prior to activation
- The recording interval is not shorter than 15 minutes.
- The device is stored and operated according to LogTag® North America's recommendations.

HAXO-16BT Display

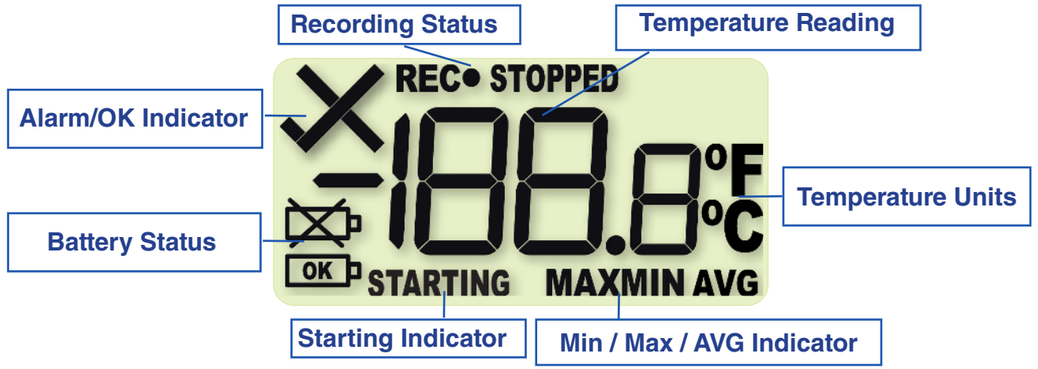


Figure 5: HAXO-16BT display with all segments turned on

The image above shows the display with all segments turned on.

Alarm/OK Indicator

The cross symbol is shown when the logger has registered an alarm condition. The tick symbol is shown when there are no active alarms.

Recording Status

REC• is shown when the logger is actively recording data.

When STOPPED is shown, the logger has finished recording or has been stopped using the **START** button

Temperature Reading

The large numeric display shows the main recorded value. During normal operation, this is the most recent reading.

Temperature Units

The temperature unit area shows the selected unit of measurement, such as °C or °F, depending on the alarm settings.

MIN/MAX/AVG Indicator

MIN identifies the minimum temperature value since the logger started recording.

MAX identifies the maximum temperature value since the logger started recording.

AVG identifies the average temperature value since the logger started recording.

Starting Indicator

STARTING is shown when the logger is in the process of beginning recording.

Battery Status

The battery symbol shows the condition of the battery. Both the cross and OK indicators display in the on screen review when the number indicates the battery level.

Cloud Connectivity (Optional)

Linking your LogTag® Online account to the LogTag® Link app allows downloaded logger data and reports to be uploaded to LogTag® Online. Uploaded data is securely stored and can be accessed online.

With a paid LogTag® Online account, you can also configure notifications and automatic report distribution after uploaded data is processed.

Connecting Your LogTag® Online Account

Tap  in the top right of the home screen to log in to your LogTag® Online account



Figure 6: Top of LogTag® Link Home screen

If your log in is assigned to more than one account, tap  to select the account you want to upload your data to. Your role in each account will be displayed.

Tap **SIGN OUT** to stop automatic uploads to exclusively save data and reports to your device locally.

Setup Remote Notifications

To receive notifications when uploaded data has triggered alarms, you need a LogTag® Online account. Free accounts will be able to receive email notifications. Paid accounts can also receive Voicecall, SMS, text, or WhatsApp notifications.

Log in to your account at www.logtagonline.com, then create either a **Shipment** or **Location**.

A **Shipment** is used when monitoring a package or cargo during transportation. All uploaded data from the assigned logger is associated with that Shipment.

A **Location** is used when monitoring a fixed point, such as a refrigerator or freezer. Monitoring history remains with the Location, allowing loggers to be replaced without losing historical records.

Create a Shipment

1. Navigate to the Shipments menu by clicking on the Shipment icon located at the bottom of your screen

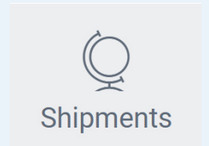


Figure 7: Shipments icon in LogTag® Online

2. Click the Create Shipment button.
3. Follow the on screen prompts to create your shipment.
4. At the Add Logger(s) to Shipment step, enter the serial number of your HAXO-16BT.

Now anytime data is uploaded to LogTag® Online, it will be assigned to this shipment.

Create a Location

1. Click the Add Device button from the home screen, and enter the serial number of your HAXO-16BT.
2. Navigate to the Locations menu by tapping the Location icon located at the bottom of your screen

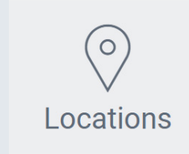


Figure 8: Locations icon in LogTag® Online

3. Click the Add a Location button.
4. Follow the on screen prompts to create your location.
5. Select your HAXO-16BT from the drop down list under **Logger Attached To Location** to assign uploaded data to your location.

LogTag® Link will now automatically attempt to upload downloaded data and reports to your LogTag® Online account.

Assign Notification Recipients

1. Select your Shipment or Location, and open the settings tab
2. Click EDIT NOTIFICATIONS
3. Select the team member types who should receive notifications.

Email Scheduled Reports (Paid Accounts Only)

Locations with a paid account can also receive regular reports by email.

1. Select your Location, then select the settings tab
2. Select at least a Primary Coordinator from the drop down list of your team members
3. Choose which coordinator roles should receive reports
4. Select the frequency from the drop down list

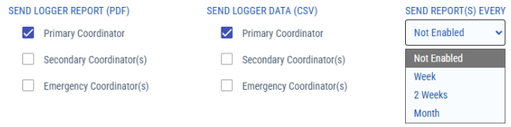


Figure 9: Regular report sending options when editing a location in LogTag® Online

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.**

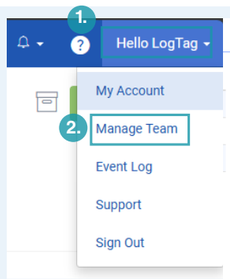


Figure 10: Account Menu

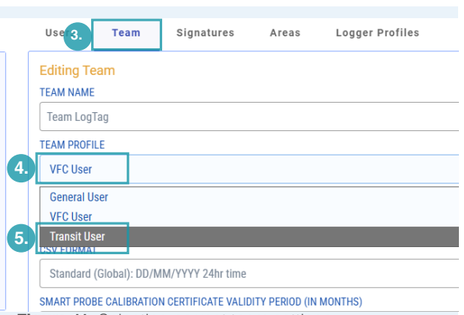


Figure 11: Selecting correct team settings

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.**

Adding Members to Your Team

To add team members to your account, click your name in the top right corner, select Manage Team, then Team. Add the email addresses of your team members to invite them to your account. After your team member has accepted the invitation, they will be visible in your account.

You can remove pending invitations by clicking Revoke Invite next to the email address you do not want to access your team account.

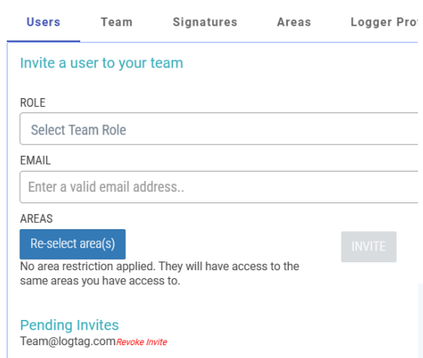


Figure 12: Inviting a user to your LogTag® Online team

Configuring Your Logger

Alarm settings are added to your HAXO-16BT using the LogTag® Link mobile app. Before the logger can be started, a configuration profile must be selected. Profiles contain the alarm settings that are loaded onto the logger. You can save multiple profiles for different monitoring requirements and reuse them whenever you configure a HAXO-16BT.

LogTag® Link includes two default configuration profiles: Cold Room and Freezer. To review the settings for either profile, tap **Edit**. You can use the profile as supplied, modify it to suit your requirements, or create a new profile.

Configuration profiles are stored locally on your mobile device, making them available for future use on that device.

Create a Configuration Profile

1. From the homepage of the LogTag® Link app, tap the **CREATE** button and name your profile so it is easy to identify when configuring your logger.
2. Adjust your alarm settings as required and tap **SAVE** .

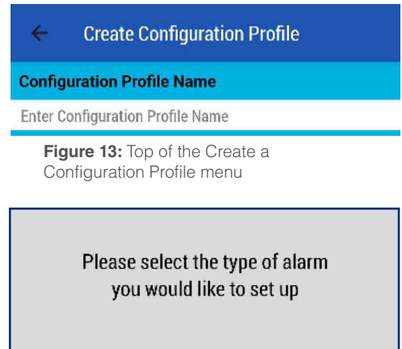


Figure 13: Top of the Create a Configuration Profile menu

Alarm Types



Create up to 4 temperature and/or humidity alarm thresholds. First select your alarm type from the following options.

Not Used

No alarm thresholds.

Instant

An alarm is triggered when one temperature and/or humidity reading is above or below the defined threshold.

Cumulative

An alarm is triggered when the temperature and/or humidity readings are above or below the threshold for the total time defined, but may not necessarily be sequential.

Consecutive

An alarm is triggered when temperature and/or humidity readings are above or below the threshold for the time defined without interruption.

Then select your required temperature and humidity thresholds from the options shown in Figure 15.

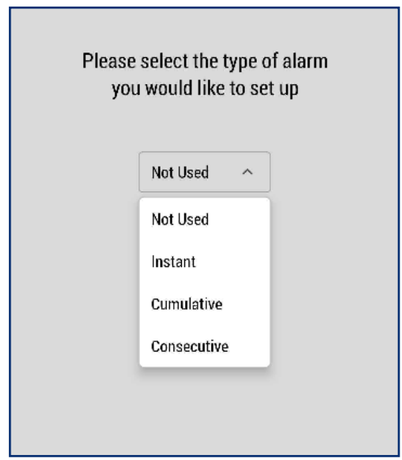


Figure 14: Alarm types menu

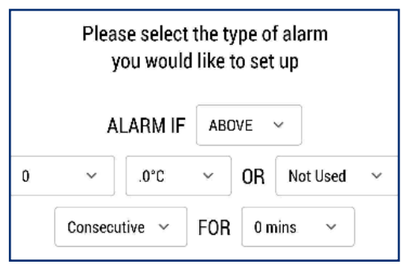


Figure 15: Alarm settings options

Note: When using Consecutive and Cumulative alarm types, the available time options provided depend on the selected log interval. The drop-down list will only show alarm durations that are compatible with that interval.

Alarm Details

Details

The settings shown in Figure 16 determine how this configuration profile will operate when loaded onto a HAXO-16BT. Tap a setting to view the available options, then select the value you require. Each setting, its available options, and its function are described below.

The estimated maximum run time for the selected settings is displayed in red above the SAVE button.

Start Mode: Choose how you want your HAXO-16BT to begin logging.
- **On Configure:** Start recording when the alarm settings have been loaded to your logger
- **Push Button:** Press and hold the **START** button on the HAXO-16BT to begin recording.

Start Delay: Choose how long your HAXO-16BT waits before it starts logging after the selected start mode above has been activated.
- **0**: Start logging immediately
- **1 through 255:** Set the logging start delay in minutes. The logger begins after the selected delay; the screen shows 199 for longer delays, then counts down once 199 minutes or less remain.

Units: Choose the temperature unit used for the alarm recordings on your HAXO-16BT in Celsius or Fahrenheit

Airplane Mode: Turns off the Bluetooth advertising for the HAXO-16BT for air travel. The logger will need to be retrieved at the end of the trip for data download when Airplane Mode is active.
- **Disabled:** Airplane Mode is not used
- **Active:** Airplane Mode is used

Airplane Mode Delay: Choose how long your HAXO-16BT waits before Airplane Mode becomes active after the logger has begun recording. Your logger will display “air” when Airplane Mode is active.
- **0:** Activate Airplane Mode immediately
- **1 through 255:** Delay Airplane Mode activation by the selected number of minutes. The logger starts recording normally and displays temperature readings until Airplane Mode activates.

Log Interval*: Set how frequently your HAXO-16BT takes environmental recordings.
- **1 through 60:** Record a reading every selected number of minute(s)

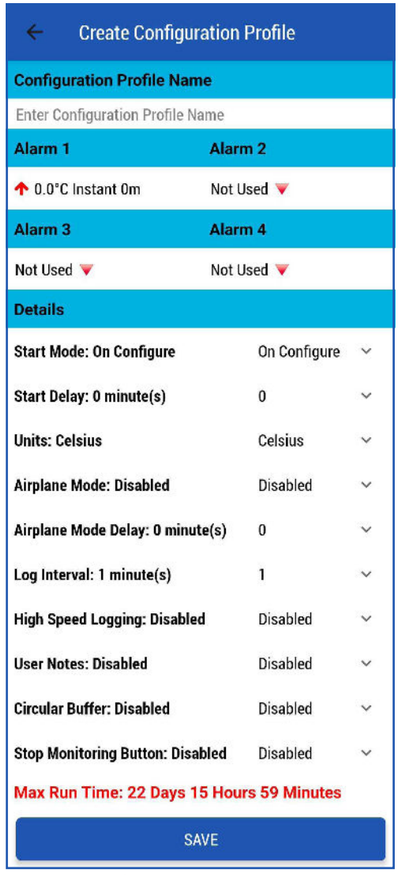


Figure 16: Configuration menu options

***Note:** The selected Log Interval controls available Consecutive and Cumulative alarm times. If a warning appears, choose a compatible time or update the alarm settings.

High Speed Logging:** If the HAXO-16BT records an environmental reading beyond an alarm threshold, it will begin recording more frequently.
- **Disabled:** High Speed Logging is not used
- **Active:** High Speed Logging is used

User Notes: Add the ability to add notes to your reports when the logger is configured.
- **Disabled:** User Notes are not used
- **Enabled:** User Notes are used

****Note:** High Speed Logging and Circular Buffer cannot be enabled at the same time.

Circular Buffer:** Choose what happens when the logger memory becomes full.
- **Disabled:** The logger will stop recording. The logger **does not** overwrite older readings when memory is full
- **Enabled:** The logger will continue logging by overwriting the oldest readings when memory is full

Stop Monitoring Button: Choose whether the **START** button can be used to stop recording.
- **Disabled:** Holding the **START** button while the logger is recording will do nothing
- **Enabled:** Press and hold the **START** button on the HAXO-16BT to stop recording

****Note:** High Speed Logging and Circular Buffer cannot be enabled at the same time.

Configuration Profile Defaults

Default settings determine the values that will be used whenever a new configuration profile is created. Updating these defaults can reduce setup time if you regularly use the same settings. Individual configuration profiles can still be changed as required without affecting these defaults.

From the Home screen, tap ☰ in the top right corner, then **Settings** to open the Default Settings menu.

The options below are edited in the same way as the alarm details. Additional default options are also available and are described below.

Default Settings

Cloud Upload: Choose if LogTag® Link is to attempt to automatically upload logger data and reports to your LogTag® Online account when data is downloaded.
- **Disabled:** Cloud Upload is not used
- **Enabled:** Cloud Upload is used

Vibrate On Connect: Choose whether your mobile device will vibrate when it connects to a logger while sending alarm settings, or downloading data.
- **Disabled:** Your mobile device will not vibrate when connected
- **Enabled:** Your mobile device vibrates when connected

Read Range: Choose the wireless read range when searching for nearby loggers. This is helpful when there are many loggers within range so you can see the loggers closest to your mobile device. Read range can also be affected by containers that the HAXO-16BT is placed in.
- **Long (-100 RSSI):** Use the longest read range
- **Mid (-75 RSSI):** Use a medium read range
- **Short (-50 RSSI):** Use the shortest read range

Display Units: Choose the temperature unit used for the alarm recordings on your mobile app in Celsius or Fahrenheit

Firmware Notifications: Choose whether your mobile device can receive in app notifications when a firmware update is available.
- **Disabled:** Firmware Notifications are not shown
- **Enabled:** Firmware Notifications are shown

Date Time Display Option: Choose how dates and times are shown in the app.
- **UTC:** Show dates and times in Coordinated Universal Time
- **Local:** Match the date time from the mobile device running the app

Graph Simplification: Use the scroll bar to determine how much the graph is simplified when displayed in the application. This must be chosen before your data is downloaded to take effect.

Support

Support Contact Information: Opens support form and contact information.

Send Debug Information: Generates a CSV debug log report to share with support@logtag.com

Load Alarm Settings

Use the LogTag® Link app to load alarm settings onto your HAXO-16BT using a configuration profile. The logger cannot be started until a configuration profile has been loaded.

Single Logger Configuration

1. Turn on Bluetooth and Location on your mobile device that is running LogTag® Link.
2. If your logger's screen is blank, press and hold the **START** button on the logger until **APP** displays on the screen. If your logger has **STOPPED** on the screen, you can skip this step.
3. In LogTag® Link, tap **CONFIGURE DEVICE** and tap **LOAD** for the alarm settings you want to apply to your logger.
4. Nearby loggers will appear in a list. Select the serial number of your logger in the list. The Loading Configuration screen will display with a progress bar.

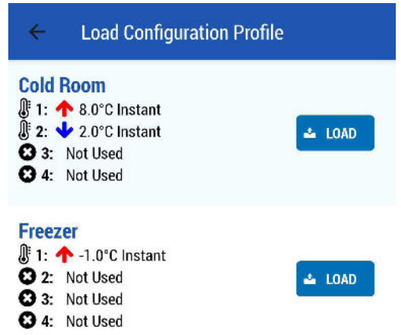


Figure 17: Select Configuration Profile

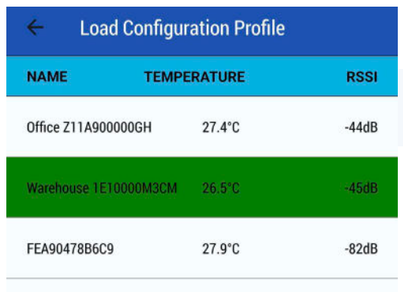


Figure 18: Load Configuration screen, logger with green background indicating the **START** button has been pressed

Note: Pressing the **START** button on your logger on the Load Configuration page will highlight the logger in green as per Figure 18.

Note: You can tap from the bottom menu to start Click-Connect mode. When active, pressing the **START** button on your HAXO-16BT will begin loading the alarm settings to your logger.

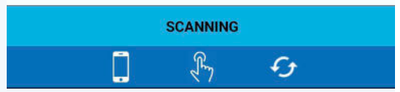


Figure 19: Load Profile options

Configure Multiple Loggers

1. Follow steps 1 through to 3 for configuring a single logger.
2. Nearby loggers will appear in a list. Tap to start batch mode. The icon will change to to confirm that batch mode is active.
3. Tap all the loggers you want to configure with the selected profile. Each selected logger will turn blue like in Figure 21.
4. Tap to load your alarm settings to your selected loggers

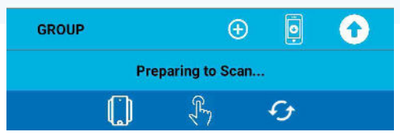


Figure 20: Load Profile options with batch mode active

Note: Tap instead of in step 4 to create a new group with your selected loggers. Name your group.

Groups save time by letting you quickly select the same loggers when loading alarm settings or downloading data, instead of selecting each logger every time. Selected loggers will have a blue background as shown in Figure 21.

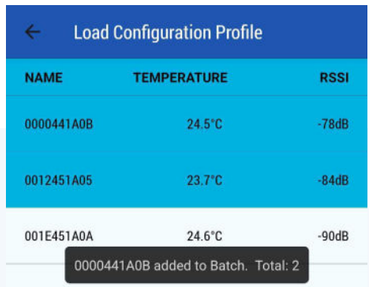


Figure 21: Loggers highlighted blue with batch mode active

Loading Configuration Settings to an Existing Group

Once you have created a group, you can reuse it to quickly load the same configuration profile onto all loggers in the group.

1. Follow steps 1 through to 3 for configuring a single logger.
2. Tap to turn on batch mode. The icon will change to to confirm that batch mode is active.
3. Tap to open group lists. You will see a list of your previously created groups with the group name, and the number of loggers in the group.

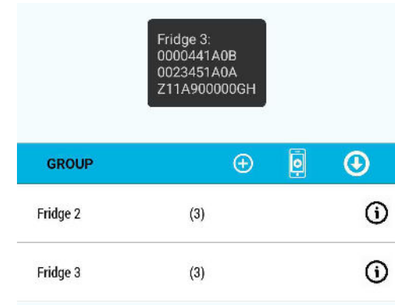


Figure 22: Group lists. The i icon has been pressed for Fridge 3 group. Logger names are displayed above the list

Note: Tap the icon to see the names/serial numbers of the loggers included in your group.

4. Tap the group name you want to load the alarm settings to. All loggers in range will receive the selected alarm settings.

Active Logger Warning

If you try to load alarm settings to a logger group that includes a logger that is currently recording, you will see this warning. Download your data from the logger, stop the logger, then you will be able to apply new alarm settings to your HAXO-16BT.

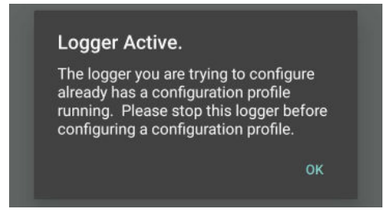


Figure 23: Active logger warning

Scanner Options

Restarts the scan if your HAXO-16BT is not shown in the list. Ensure Bluetooth and Location services are enabled.

RSSI
Displays the signal strength between LogTag® Link and the listed HAXO-16BT loggers. Loggers with a low RSSI can be hidden by adjusting the Read Range setting in your configuration profile.

Name Your Logger

To give your logger a name to make it easy to identify, from the Load Configuration Profile screen, touch and hold the serial number of the logger you want to rename. After a second, the rename screen in Figure 24 will appear. Replace the serial number with the name you require.

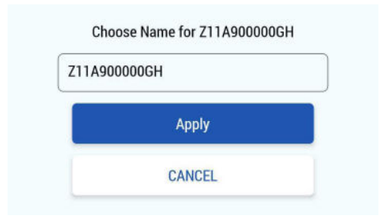


Figure 24: Rename logger screen

Edit a Configuration Profile

Editing

To make changes to saved alarm settings, tap EDIT from the home screen. You will be shown your list of saved configuration profiles. There is an overview of the temperature and humidity alarm settings for each profile.

Tap the profile you want to edit, and you will see the settings options as per pages 10 and 11. Make your amendments, then tap the SAVE button.

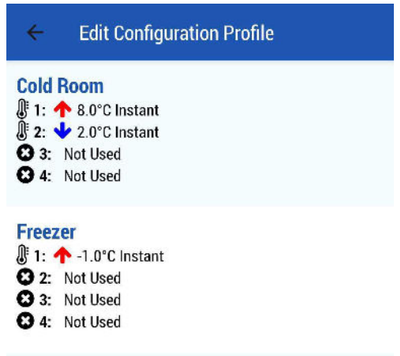


Figure 25: Edit Configuration screen

Discard Changes

If you make changes to the settings but do not want to save, tap the back arrow ←. You will see the warning in Figure 26 and provided the option to save or discard your changes.

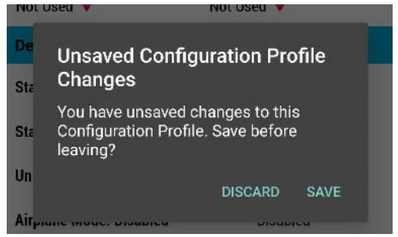


Figure 26: Unsaved changes warning

Deleting a Profile

You can also delete profiles that are no longer needed. Touch and hold the profile you want to delete. You will see the warning in Figure 27.

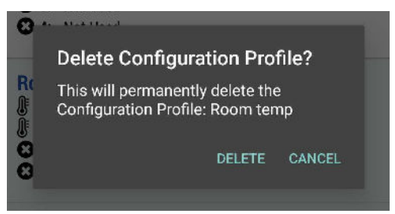


Figure 27: Delete configuration profile warning

IMPORTANT: Deleting a profile is permanent and cannot be undone.

Starting Your HAXO-16BT

On Configure

The default Start Mode in LogTag® Link is On Configure, which starts the logger as soon as the alarm settings have been loaded to the logger. You will see the first temperature recording display on your HAXO-16BT to confirm that has started recording.

Push Button

You can change the Start Mode to Push Button, when creating your Configuration Profile.

In this case, your logger will display rdy. If your logger does not display rdy, you need to apply alarm settings to your logger first. See Load Alarm Settings for further instructions on applying this setting.

1. Press and hold the **START** button. You will see STARTING appear as per Figure 29. Continue to hold the **START** button until rdy disappears.

2. Release the **START** button when rdy has disappeared. Your logger will then indicate that it is recording with the REC• indicator, and by displaying the first temperature reading.



Figure 28: Configured logger screen waiting for user to start logging



Figure 29: Configured logger screen, user has pressed the **START** button

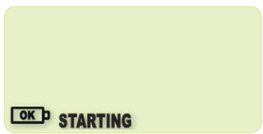


Figure 30: Configured logger screen, user continues to hold the **START** button



Figure 31: Logger has started recording

With a Delay

You can add a delay to both the On Configure and Push Button start options. This will add a timed delay in minutes after your selected start method has been activated. See Load Alarm Settings for further instructions on applying this setting.

Once the start method has been triggered as per the On Configure and Push Button sections above, the logger will then show the screen in Figure 32, indicating that the start method was activated, and the number will show the minutes remaining for the delay. When the countdown reaches 0, the logger will start recording and display the first temperature recording.



Figure 32: Logger has a 4-minute start delay

During Recording

View Data on the HAXO-16BT Display

You can review the key statistics on the HAXO-16BT screen by pressing the **START** button. The latest temperature recording and the alarm status will be displayed on a recording logger by default. Each press of the **START** button will display the next screen in the sequence.

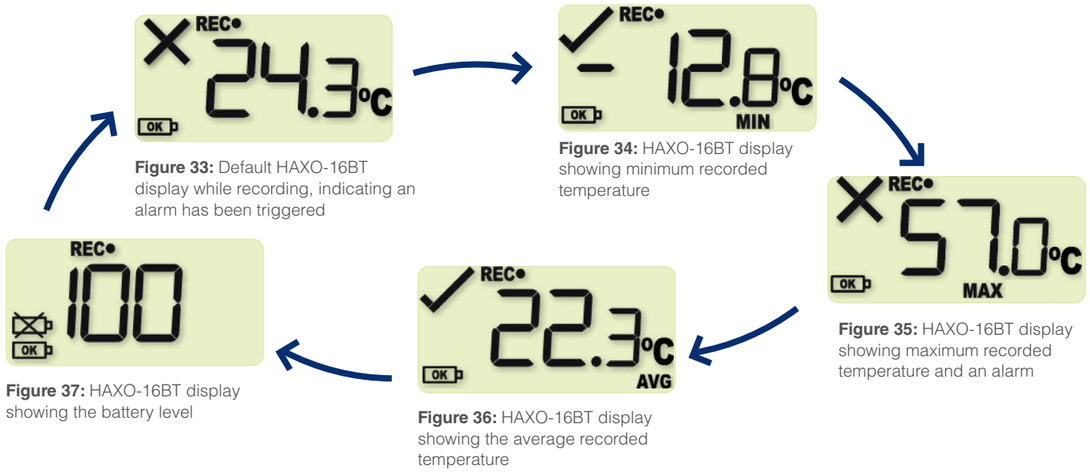


Figure 33: Default HAXO-16BT display while recording, indicating an alarm has been triggered

Figure 34: HAXO-16BT display showing minimum recorded temperature

Figure 35: HAXO-16BT display showing maximum recorded temperature and an alarm

Figure 36: HAXO-16BT display showing the average recorded temperature

Figure 37: HAXO-16BT display showing the battery level

Note: If only the default screen is displaying an alarm, but none of the subsequent review displays alarms, this means a humidity alarm has triggered. View your data using LogTag® Link to see humidity recordings.

Add an Inspection Mark

Pressing the **START** button on your HAXO-16BT while it is recording will add an inspection mark to the next stored record. The inspection mark will be visible in your recorded data and in your charts and reports.

View the Latest Recording in LogTag® Link

Fixed asset mode in LogTag® Link makes monitoring fridge and freezer rooms easy. You can see at a glance the latest recording from each logger in range.

View Data From a Single Logger

1. Open LogTag® Link on your mobile device and tap FIXED ASSET under DATA.

Nearby loggers will appear in a list. Any device with an alarm will display with a red background.

Currently recording loggers will have an ACTIVE status, while stopped loggers will have an OFF status

2. To download your data from any of the listed loggers, tap on the logger serial number or name to open single asset view. The most recent temperature and humidity recording will display with the **DOWNLOAD NOW** button. Tap **DOWNLOAD NOW** to download your data and report.

Note: You can tap from the bottom menu to start Click-Connect mode. When active, pressing the **START** button on your HAXO-16BT will show that logger in single asset view as per Figure 38

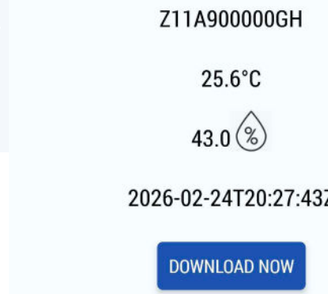


Figure 38: Single Asset view screen

View Data From Multiple Loggers

Groups help you view only the loggers that are important to you. You could create a group for each room you are monitoring to make finding the loggers you need easy.

Open LogTag® Link on your mobile device and tap FIXED ASSET under DATA.

1. Nearby loggers will appear in a list. Tap to start batch mode. The icon will change to to confirm that batch mode is active.
2. Tap all the loggers you want to add to your view. Each selected logger will have a blue background.
3. Tap to view the latest recordings from your selected loggers
4. If you have already made a group, tap to open group lists. You will see a list of your previously created groups with the group name, and the number of loggers in the group. Tap the ⓘ icon to see the names of the loggers included in your group. Tap the group name you want to view in group view.

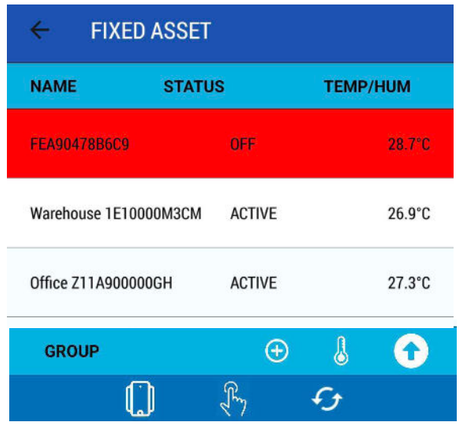


Figure 39: Fixed Asset screen with batch mode turned on

Note: Tap instead of in step 3 to create a new group with your selected loggers. Name your group.

Groups save time by letting you quickly select the same loggers to view in Fixed Asset mode, instead of selecting each logger every time.

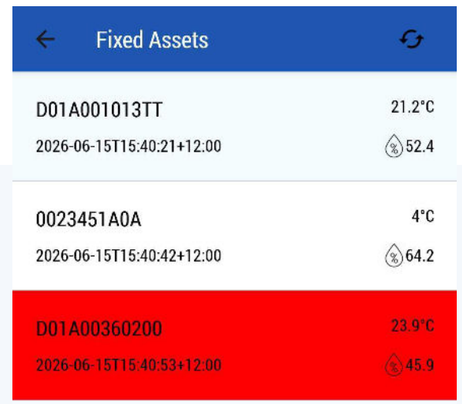


Figure 40: Fixed asset group view

Note: If you do not see the logger you need, tap to restart your scanner. Ensure Bluetooth and Location settings are turned on.

Stopping the HAXO-16BT

You can configure your logger to stop after data has been downloaded, or when the **START** button is pressed on the logger.

After Data Download

When data is downloaded to the LogTag® Link app, the Stop Monitoring button will be visible at the bottom of the report like in Figure 41.

To stop your logger from recording, tap this button. Your logger screen will confirm that it has stopped logging by displaying **STOPPED** and the battery symbol as shown in Figure 45.

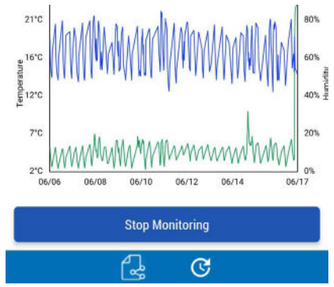


Figure 41: Bottom of logger report in LogTag® Link, with **Stop Monitoring** button visible

Using the START Button

To stop the logger using the **START** button, you must first enable the Stop Monitoring Button option in your alarm settings when you create your configuration profile. Go to Create Configuration Profile tor further instructions.

With this setting enabled, press and hold the **START** button on your HAXO-16BT logger.

STOPPED will appear at the top of the logger screen. Continue to hold until **REC•** disappears. Your logger is no longer recording when the display matches Figure 45.

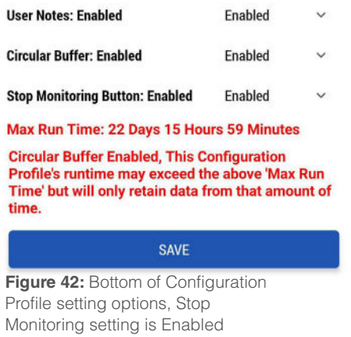


Figure 42: Bottom of Configuration Profile setting options, Stop Monitoring setting is Enabled



Figure 43: HAXO-16BT display with **STOPPED** visible while user is holding the **START** button



Figure 44: HAXO-16BT display while the user is pressing the **START** button, **REC•** disappeared



Figure 45: HAXO-16BT display after the **START** button has been released and has stopped recording

Airplane Mode

To turn off Airplane Mode so you can download your data:

1. Locate the logger. The screen will display **Air** like in Figure 46.
2. Press and hold the **START** button on your logger until **Air** disappears.
3. Release the **START** button, you will then see a temperature reading.

Your HAXO-16BT is now out of Airplane Mode and ready to download your data as per the instructions in **Downloading Your Data** section on the next page.



Figure 46: HAXO-16BT screen with Airplane Mode active

Downloading Your Data

Download Data From a Single Logger

1. Turn on Bluetooth and Location on your mobile device that is running LogTag® Link.
2. Tap **DOWNLOAD** in the LogTag® Link app, a list of nearby loggers will appear.
3. Tap on the logger serial number or name that you want to download.
4. You will then see the download screen, followed by a progress bar for the data upload to LogTag® Online. When you see the success message the data and report are now available in your LogTag® Online account.

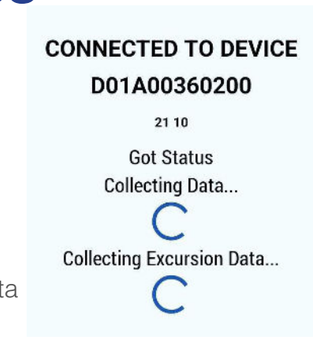


Figure 47: LogTag® Link downloading data from a single logger

Note: For cloud connected devices, if you are offline or do not have a stable internet connection when downloading data, the cloud upload failed icon will appear in the top right of the report page. To retry the upload, open the History tab when you are online again, then open the saved data to retry the upload.

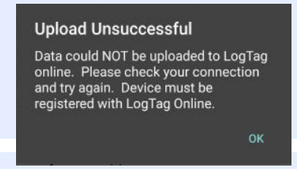


Figure 48: LogTag® Link unsuccessful upload warning

Note: You can tap from the bottom menu to start Click-Connect mode. When active, pressing the **START** button on your HAXO-16BT will trigger the app to download data from that device.

Download Data From Multiple Loggers

1. Follow steps 1 and 2 in the Download Data from a Single Logger instructions above.
2. Tap to start batch mode. The icon will change to to confirm that batch mode is active.
3. Select all the loggers you want to download data from. Selected loggers will get a blue background. Tap to start the data download.

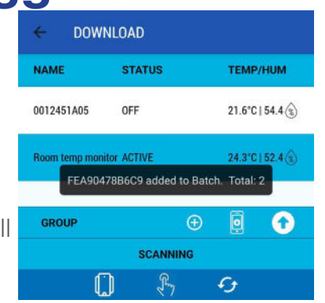


Figure 49: Download Data screen with batch mode active

Note: If you have already made a group, tap to open group lists. You will see a list of your previously created groups with the group name, and the number of loggers in the group. Tap the icon to see the names of the loggers included in your group. Tap the group name to start downloading data from all the loggers in that group within range.

When downloading your data from a group, you will see the warning in Figure 50 where you will have the option to stop all loggers in the group monitoring after the data has been downloaded, or download the data and keep the loggers recording.

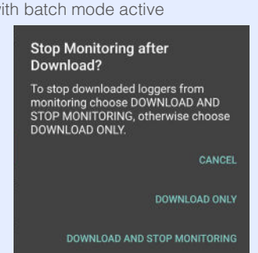


Figure 50: Stop Monitoring warning

Note: If you do not see the logger you need, tap to restart your scanner. Ensure Bluetooth and Location settings are turned on.

Note: You can easily identify the logger you want by pressing the **START** button on the logger. The logger background will turn green like in Figure 51.

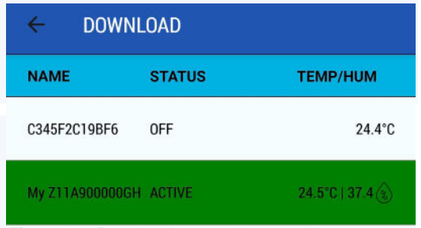


Figure 51: Download screen, logger with green background indicating the **START** button has been pressed

Viewing Data and Reports on Your Mobile

History

The History screen shows all of the reports downloaded to your mobile device. These reports contain key statistics from the recorded data, alarm settings, and a plotted graph.

If you have downloaded data from the same logger more than once, the reports will be grouped together as per Figure 52. The bracketed number shows the number of reports downloaded.

Tapping a logger name with a single report will open the report. Tapping a logger name with more than one report will open the list of reports as per Figure 53. Tap the report you want to view.

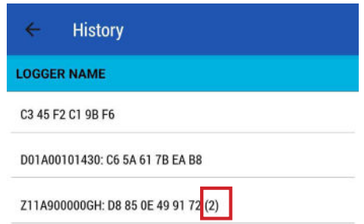


Figure 52: History screen with number of reports highlighted with a red box

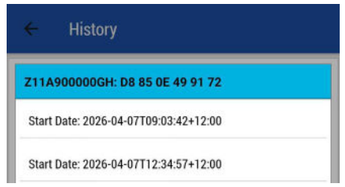


Figure 53: History screen with multiple reports

Cloud Upload Status

When viewing your report, the cloud upload status will be shown in the top right corner.

Indicates a failed upload attempt to LogTag® Online. Reopening a report that failed to upload will trigger another upload attempt.

Indicates a successful upload to LogTag® Online.

Sharing Reports

At the bottom of your report there are the following buttons.

The share button allows you to send your reports through any app on your mobile device. Tap the button and you will be given the option to generate a CSV report or PDF report.

Tap on your preferred report type. You will then see the available apps based on what is loaded on your mobile device.

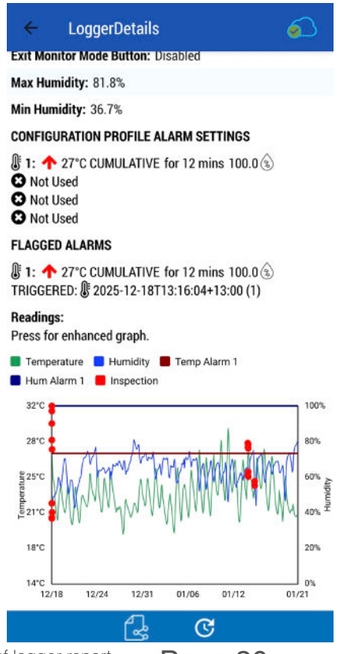


Figure 54: Bottom of logger report screen

Reconnects to the logger if it is within range, and downloads the latest data.

Graph Reports

When viewing a report in the LogTag® Link app, tap the graph to view it in more detail. You will see the enlarged report as per Figure 55.

Touch the screen to view individual data points on the graph.

Pinch your screen to zoom in and out of the graph.

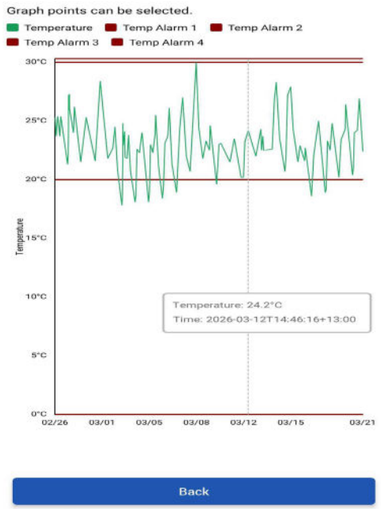


Figure 55: Report graph screen

PDF Reports

When you download a PDF report from LogTag® Link, it will look like the below.

1. Serial number of the logger.
2. Alarm status. This shows at a glance if the HAXO-16BT recorded alarm conditions (showing a red ⊗) or if no alarms were recorded (showing a green ✓).
3. Logger information shows details about the recorder used.
4. Key configuration details, such as the date the alarms were sent to the logger, when the logger stopped and started recording, and recording mode used.
5. Key statistics over the recorded period.
6. The alarm settings applied to the logger.
7. If an alarm was triggered during the recorded period, the date and time triggered will be provided. The number of times the alarm was triggered will be shown in brackets. If the alarm was not triggered, N/A will be shown.
8. The key for the graphed data.
9. The data plotted in a graph.

The graph will also be followed by a table of all the recoded data points.

Figure 56: PDF report from completed recording

Viewing Data on LogTag® Online

Accessing Shipment Data

Log in to your LogTag® Online account at www.logtagonline.com.

Select the shipment you want to view from the list under the **Shipment map**. If you cannot see the shipment you want to view, you can use the filter or search bar to find it.

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 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 no 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 level when data was last uploaded to LogTag® Online.
11. The **last transmitted** column outlines when LogTag® Link last transmitted data to LogTag® Online for your HAXO-16BT.
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 remove the logger from your shipment.

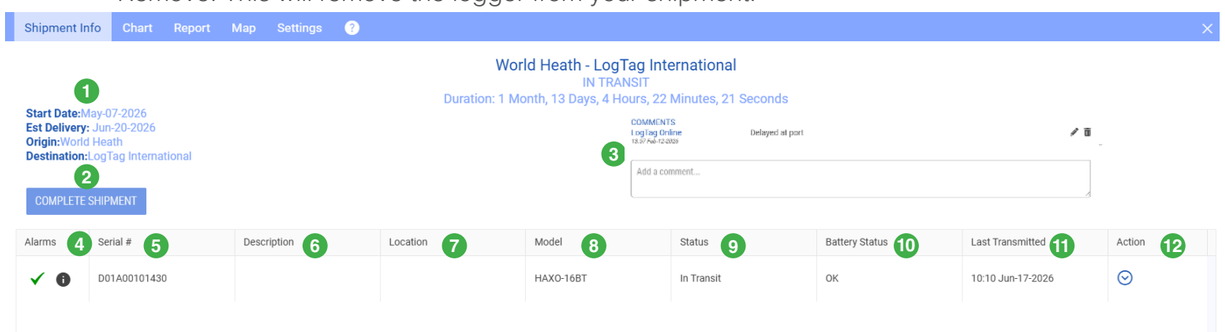


Figure 57: LogTag® Online shipment info window with HAXO-16BT logger data

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.

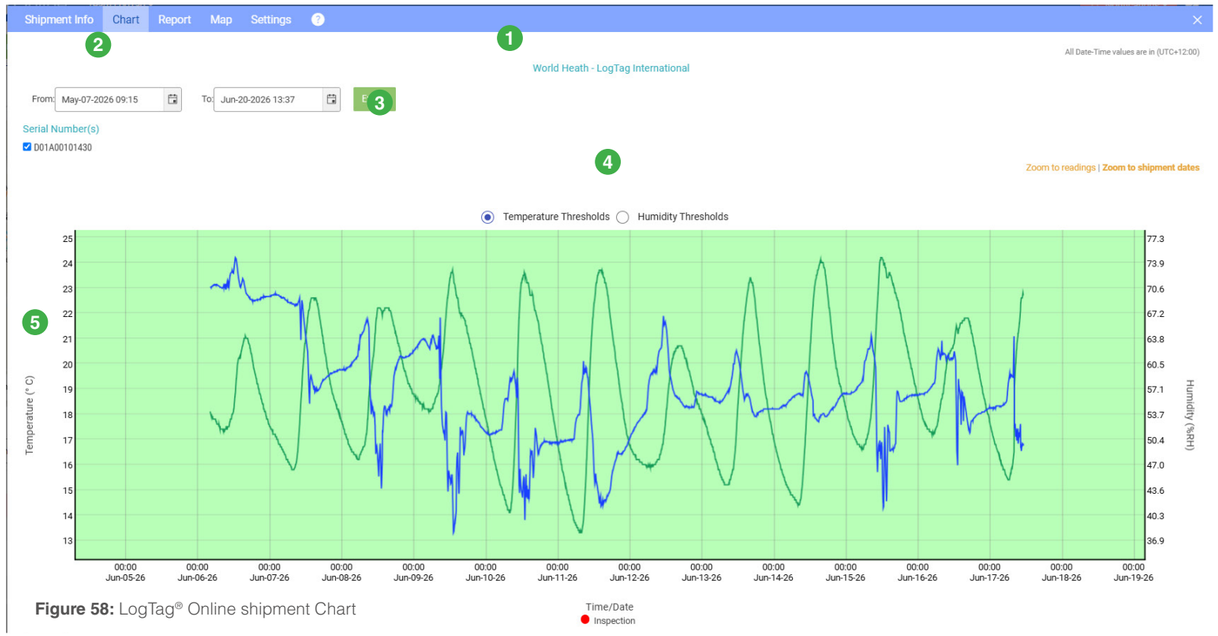


Figure 58: LogTag® Online shipment Chart

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 such as,
   - Inspection Mark
   - Readings Not Displayed
   - Alarm Acknowledged
   - Lower Alert
   - Above Alert

   and other events

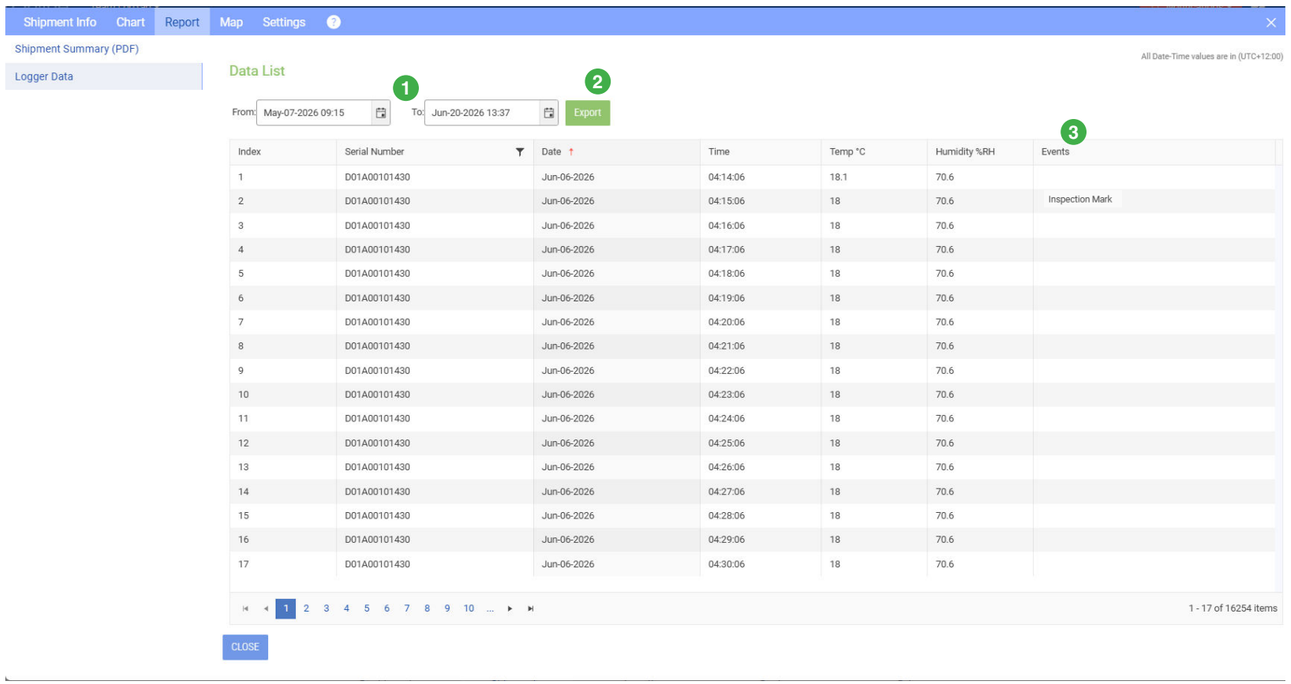


Figure 59: LogTag® Online Logger Data report

Report (Shipment Summary)

The Shipment Summary 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. Preview the PDF logger report, including the charted data. If multiple loggers are in the shipment, all their data will appear in the report.

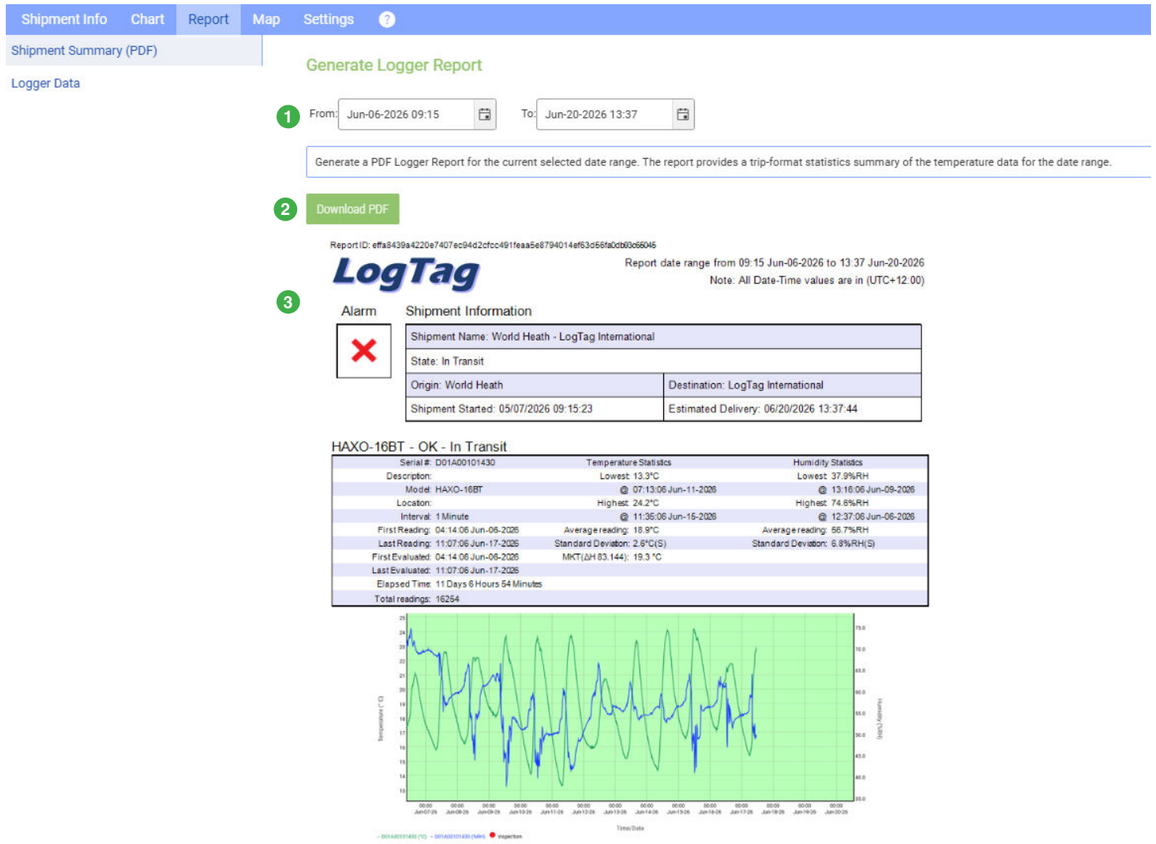


Figure 60: LogTag® Online Shipment summary report

Accessing Continuous Monitoring Data

To access data of your fridge or freezer, go to the **Locations Tab**, click **Inspect** on the location you want to view.

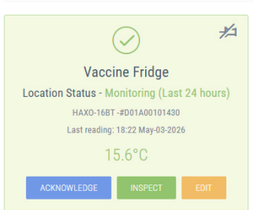


Figure 61: Location tile in LogTag® Online with data uploaded

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 recorded on each day.
4. View key information about the date selected in the calendar. The selected date is indicated with a red background
5. Adjust the date range to review data on a specific date.

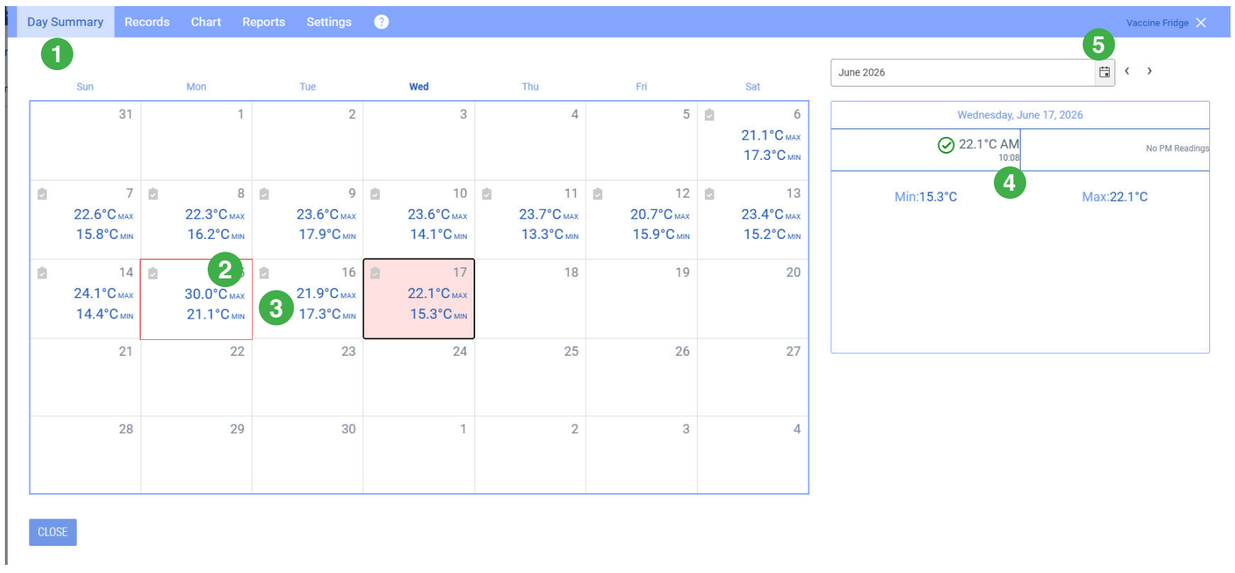


Figure 62: Day summary tab calendar view

Records

The **Records tab** shows a list of any unacceptable storage events, such as readings that are outside alarm limits. You can add details to the incident in troubleshooting report.

1. 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.

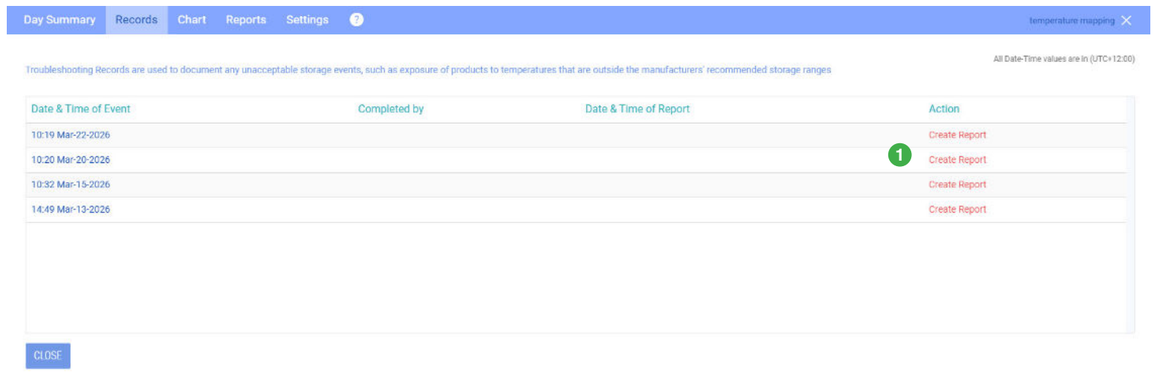


Figure 63: Location Record tab

2. Complete the relevant boxes of the incident report.
3. Select the coordinator type that needs to be sent a copy of this report.
4. When all fields are completed, the submit button will turn green. Click **submit**. A copy of the report will be emailed to key personnel.
5. You can also save your changes if you need to edit the report as the investigation is carried out to save your progress until you are ready to submit the report.
6. Select Back to return to the records tab without saving your changes

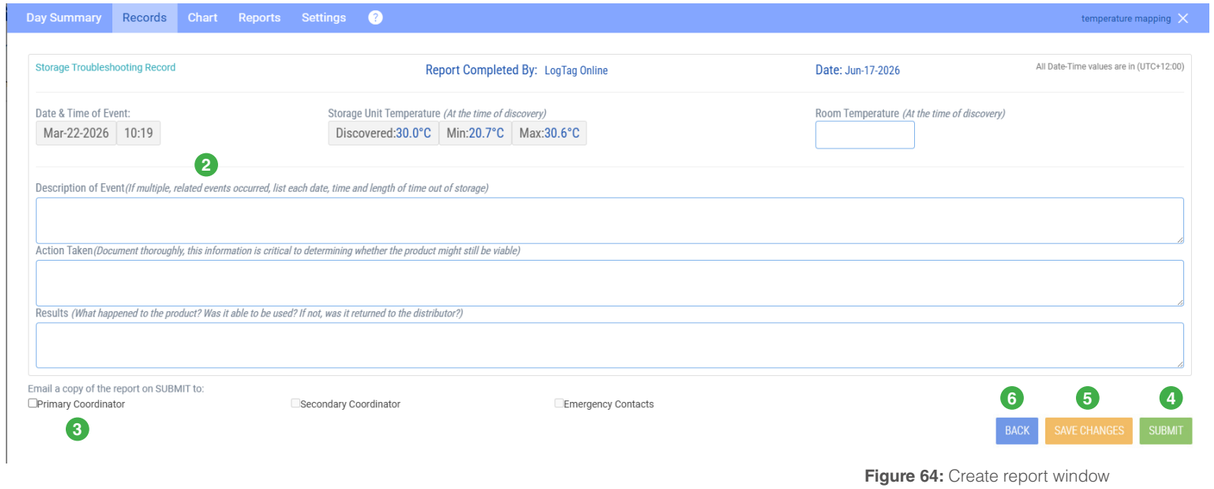


Figure 64: Create report window

Chart

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

1. The location 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** your chart data 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.

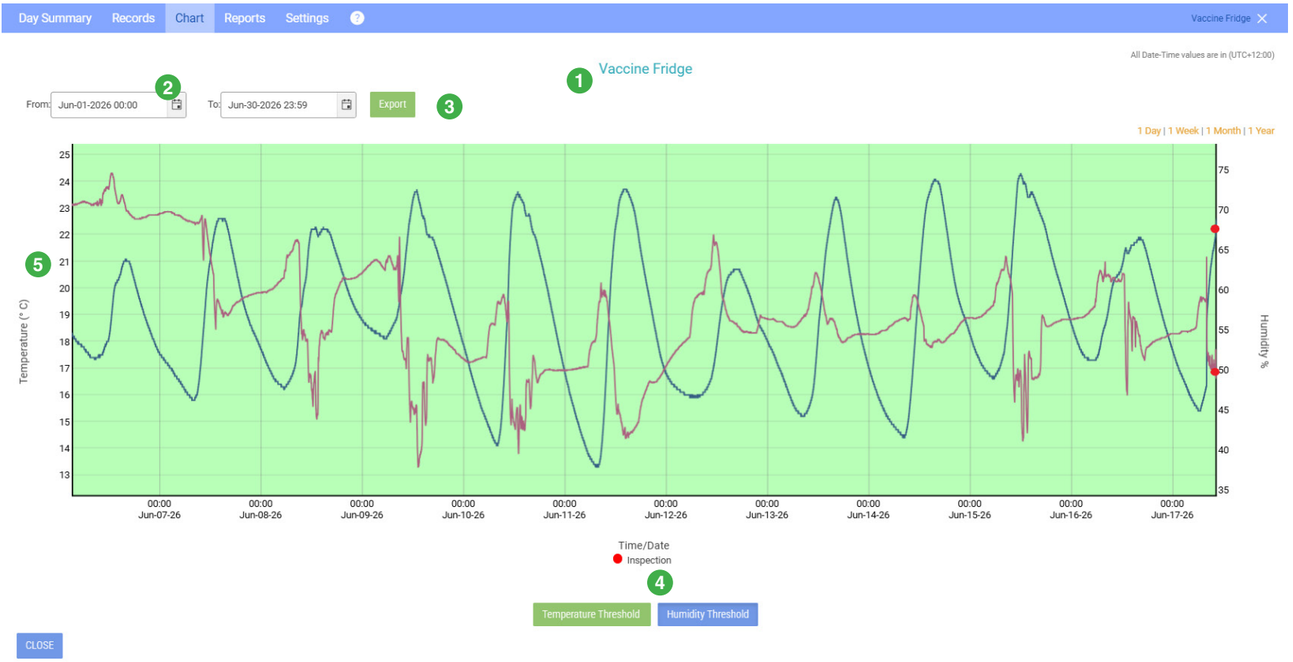


Figure 65: LogTag® Online location graph

Reports (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 such as,
   - Inspection Mark
   - Readings Not Displayed
   - Alarm Acknowledged
   - Lower Alert
   - Above Alert

   and other events

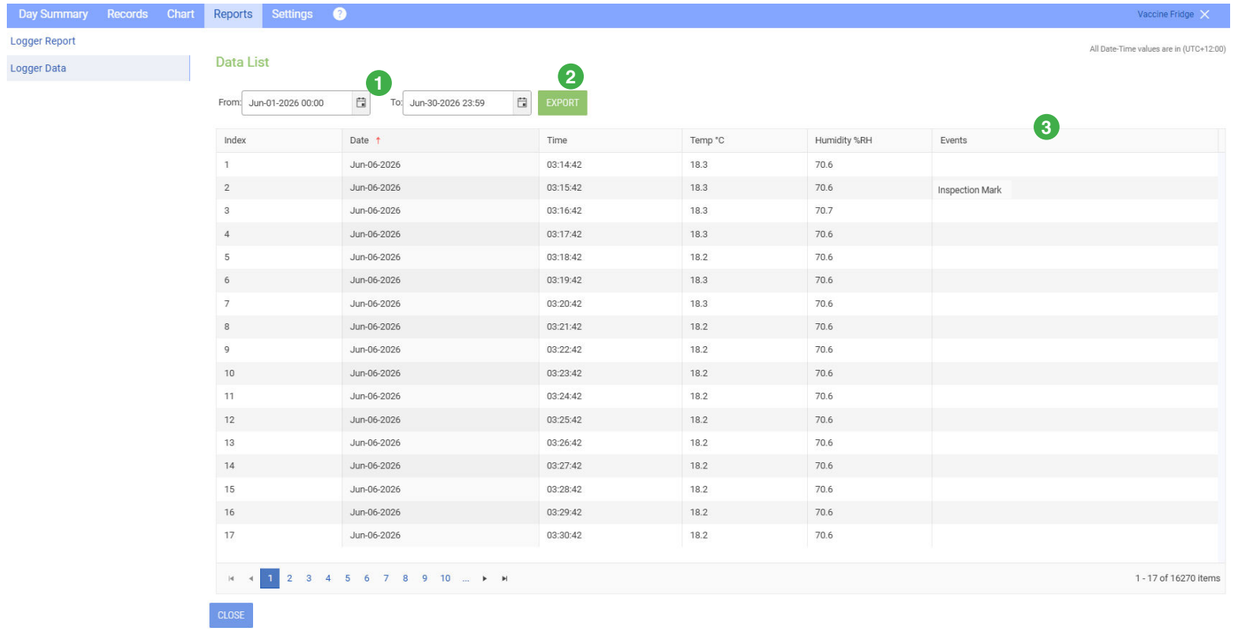


Figure 66: LogTag® Online location Logger data report

Reports (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.

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. Preview the PDF logger report, including the charted data.

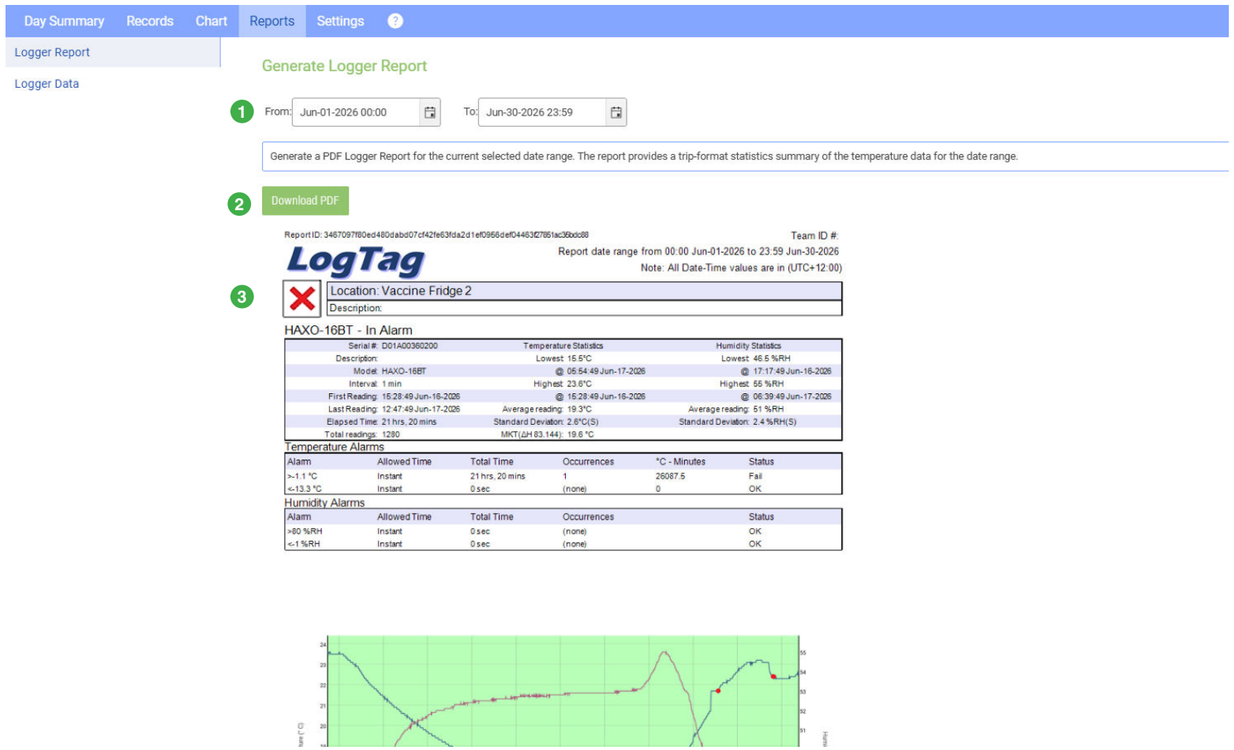


Figure 67: LogTag® Online Logger Report

Resetting Your Logger

When you are finished with your HAXO-16BT and want to store it away for future use, you can help preserve the remaining battery life by reseting your logger.

1. First, ensure your data has been downloaded and the logger stopped. Go to Downloading Your Data for further instructions.

Note: If you do not download your data before resetting your logger, you will not be able to retrieve the data later.

2. When you are sure you have all your required data, press and hold the **START** button for 3 seconds.

The loggers screen will turn off when completed successfully.

Confirm Successful Reset

To confirm that you have successfully reset your logger, you can press and hold the **START** button again. APP will display if the logger has been reset, like in Figure 68. The logger screen will go blank automatically if the **START** button is not pressed.



Figure 68: The HAXO-16BT App screen, confirming that the logger has been reset successfully

If instead of a blank screen you see a temperature reading, the **START** button was not pressed for long enough.

3. Wait for the screen to go back to STOPPED like in Figure 69 automatically.
4. Press and hold the **START** button for 3 seconds. Only release the **START** button when the screen is blank.



Figure 69: HAXO-16BT display when the logger is not recording, showing STOPPED on the screen

When you want to use your logger again, you will need to reconfigure your logger. See Load Alarm Settings for instructions.

More Resources:

To view compliance information for the HAXO-16BT, go to https://logtagrecorders.com/product/haxo-16bt/#cert

To view video tutorials, visit our YouTube channel at https://www.youtube.com/@logtagrecorder

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

To log in 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.

Safety Information

European directive 2012/19/EU on Waste Electronic Equipment (WEEE)

This device is marked according to European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE). By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol  on the product, or on the documents accompanying the product, indicates that this device may not be treated as household waste. Instead, it shall be handed over to the applicable collection point for recycling of electrical and electronic equipment. Disposal must be carried out in accordance with local environmental regulations for waste disposal. For more detailed information about your local city office, contact your local disposal service or the supplier where you purchased this device.

Federal Communication Commission Interference Statement
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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada Statements
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Avis de conformité pour l'industrie Canada
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

To comply with FCC and Industry Canada RF radiation exposure limits for general population, the logger must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.







Product Characteristics

IC ID: nRF52810
Wireless Standards: Bluetooth, Bluetooth LE
Frequency (Tx, Rx): Bluetooth LE: 2402-2480 Mhz
ITU Designation: G1D, F1D
Output Power: Bluetooth LE: -0.6dbm
Modulation: Bluetooth: GFSK, π/4-DQPSK, 8DPSK, BLE: GFSK
Antenna: PCB Antenna, 3.1 dbi
Battery: Non-user replaceable, Non-rechargeable LiMnO2, CR2450, 3VDC
FCC ID: FBRE2000
I**C:** 1859A-E2000
IFT: 201901C00480

The Bluetooth word mark and logos are trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by LogTag® North America, Inc. is under license. Other trademarks and trade names are those of their respective owners.

Specifications

Product Model	HAXO-16BT
Sensor Measurement Range	-20 °C to +70 °C (-4 °F to +158 °F)
Operating Temperature Range	-20 °C to +70 °C (-4 °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
Humidity Storage Range	20 %RH to 60 %RH*
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 -30 °C to +0 °C (-22 °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
Humidity Resolution	Better than 0.1 %RH
Temperature Resolution	Better than 0.1 °C or 0.1 °F
Recording Capacity	16,000 paired temperature and humidity recordings. 169 days @ 15 min logging
Sampling Interval	Configurable from 1 minute to 60 minutes
Logging Start Options	Push button start, Start delay, Immediate start after configuration
Environmental	IP61
Power Source	CR2450 3V Li-MnO2 UN38.3 Approved coin cell, non-rechargeable, non-replaceable
Battery Life	3 years storage, followed by 1 year of normal use
App System Requirements	Android: 7.0 or later iOS: 15.6 and later Tablet: Android and iOS tablets with Bluetooth
Wireless Range	Up to 40m (131 feet)
Size	5.3cm x 7.7cm x 0.8cm
Weight	35g
Case Material	Polycarbonate

***Optimal Storage Condition:** For optimal Humidity logger storage, store units in original packaging in an air conditioned area. Storage temperature shall be in the range of 0 °C to +40 °C and humidity at 20 %RH to 60 %RH. Ensure good ventilation (fresh air supply) in storage area to avoid high concentrations of volatile chemicals. Do not store units in the same room as solvents or any other strong smelling products.