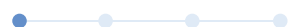




This quickstart guide covers preparation, use and maintenance for the following models:

USRIC-4, USRIC-8 & UTRIX-16

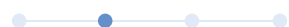


1. SOFTWARE SETUP

Software requirements vary depending on the model of USB Logger you have and the type of file you want it to generate when plugged into a USB port.

Loggers can be ordered pre-configured, ready to start. Different profiles are available; if none of these suit or the Logger needs different configuration settings to those already installed, you will need to download and install our freely available companion LogTag® Analyzer software (version 2.5 or higher) from our website: www.logtagrecorders.com/software. Simply browse to our software page, fill in your details and begin your download.

Once it has finished downloading, install LogTag® Analyzer to your computer and start the program once it is installed. (For detailed software download and install instructions, please refer to the LogTag® Analyzer User Guide).



2. LOGTAG® CONFIGURATION

It is recommended that you connect each USB PDF Temperature Recorder via a permanently plugged in USB extension cable to protect your computer's USB socket. Please refer to www.logtagrecorders.com/support if you are having issues.

"Standard Configuration"

With the Software running, the easiest way to configure your LogTag® for use is with the 'LogTag Wizard' which can be accessed by pressing the 'F2' key on your keyboard or you can browse via the top navigation menu: 'LogTag' > 'Wizard'

Note: You can configure many devices at the same time, however, it is practical to limit the number of devices to about 10, using a powered USB hub. It is not possible to configure different models at the same time.

The screenshot shows the 'LogTag Wizard' configuration window. It includes fields for 'User ID' (My USB Recorder), 'Push button start', and 'Enable pre-start logging'. It also has sections for recording settings: 'Record readings so that' (Readings recorded will span at least 13 days, Number of readings to record 2000), 'Record a reading every' (10 Minutes), and 'Begin recording after a delay of' (0 Minutes). There are checkboxes for 'Enable the OK (Green) indicator', 'Trigger alarm when readings above' (8 °C), 'After' (12 Accumulative violation readings (2 Hours)), 'Trigger alarm when readings below' (2 °C), 'After' (144 Accumulative violation readings (1 Day)), 'Clear and reset alarm when START/MARK button pressed', 'Alarm remains on even if readings return to non-violation range', 'Configure requires a password', and 'Download requires a password'. At the bottom, it shows 'Starts remaining: 1' and buttons for '< Back', 'Next >', 'Close', and 'Help'.

1. Provide a 'User ID' to identify the logger being configured.
2. Select Push button or Time/Date start.
3. Enter the recording interval you wish to use. The duration of the shipment and/or number of readings to record changes according to the recording interval entered.
4. (Optional) Enter a start delay before the logger begins recording.
5. Specify the **upper** temperature alarm.
6. Specify the **lower** temperature alarm.
7. Optionallv specifv a password for next confiigure or download.

Advanced Configuration Options

Click **Advanced Options** for additional configuration settings. These settings decide which files -if any- are generated at the end of the trip and also determine the appearance and contents of the generated files.

The screenshot shows the 'Advanced Options' configuration window. It includes checkboxes for 'Generate PDF', 'Generate list', and 'Generate csv'. It also has sections for 'Temperature unit' (Celsius), 'Use local PC time zone (UTC +12:00)', 'Time zone' (UTC +10:00), 'Time format' (12-hour (am/pm)), 'Date format' (DD/MM/YY), 'Calculate Mean Kinetic Temperature (MKT)', 'PDF options' (Generate data list), 'Chart options' (Y axis scaling, range of readings, sensor range, custom range), 'Show Y axis grid lines', 'Show X axis grid lines', 'Show upper alarm line', 'Show lower alarm line', 'Allow logging stop with STOP button', and 'Prioritize download over file generation'. At the bottom, there are 'OK' and 'Cancel' buttons.

Parameters that influence the appearance of all files are

- Setting of the temperature units used in the files
- Date and time format
- Time zone and MKT values

Parameters specifically influencing the appearance of the PDF file are (Not available for USRIC-4):

- Scaling parameters for the chart
- Showing or hiding gridlines
- Showing or hiding alarm threshold lines
- Creation of the data list

Enter the desired options and click Close to accept the new values. This returns you to the standard configuration dialogue.



3. START / INSPECT

Once a LogTag® has been configured, pressing the START/MARK button has a different outcome depending on what the logger is doing at the time the button is pressed.

To start the logger: Press and hold the START/MARK button until the red and green LED's start alternate flashing, then release.

- If the logger is configured for a push button start, pressing this button will activate the main recording. There is no need to be concerned about any lost data if the user forgets to press this button, as a pre-start recording feature can be activated, logging data even before the trip is started.
- Once the LogTag® has been started, pressing the button will insert an inspection mark in the data recordings, which is displayed when viewing the data in the software.
- If configured, Alert Conditions can be reset when this button is pressed.



4. DOWNLOAD / RESULTS

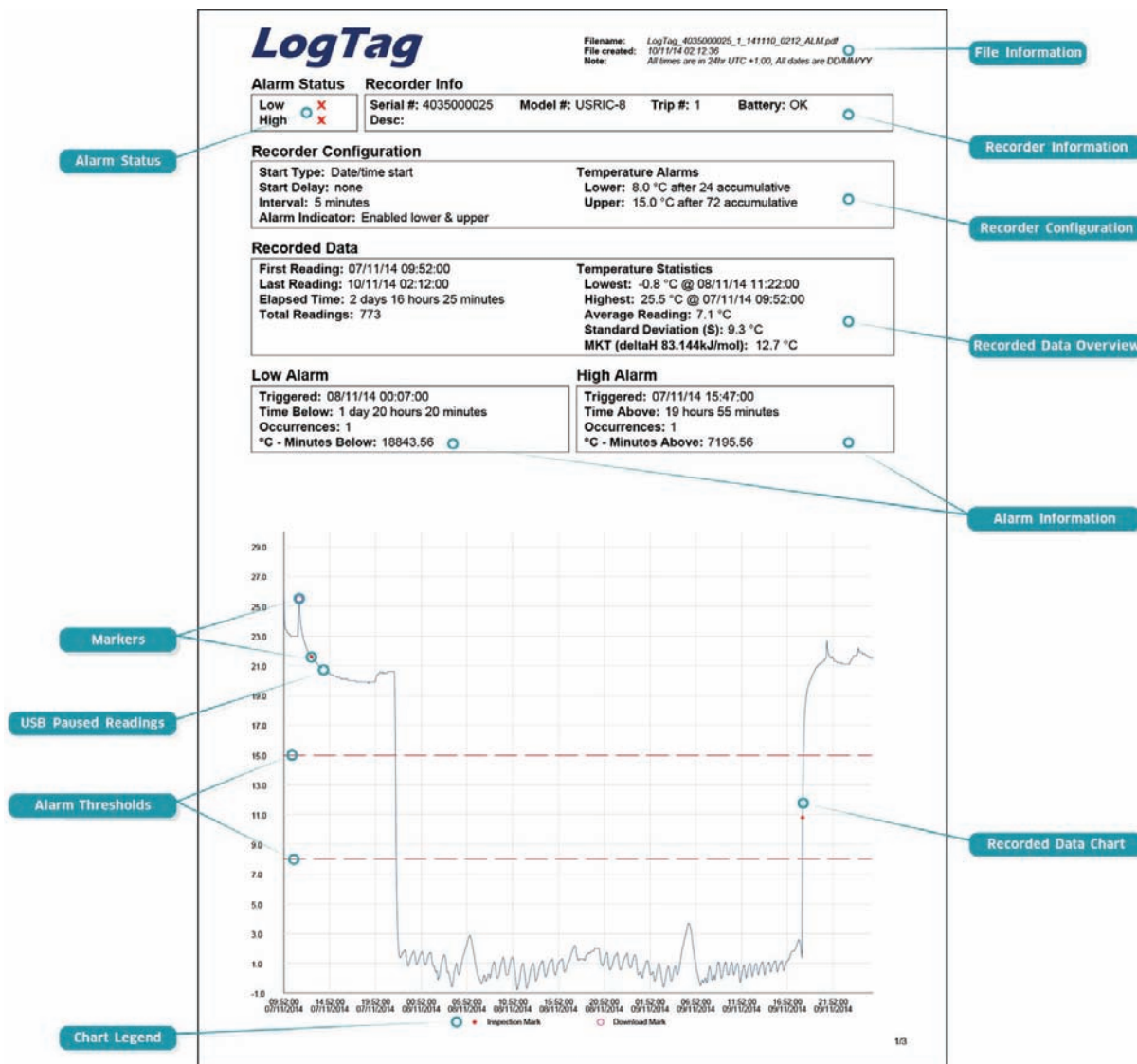
What happens when you plug your LogTag® into a USB port depends on the operating system of the computer, the settings made during configuration and whether or not LogTag® Analyzer is running.

If the LogTag® was configured to generate files, a new drive or mounted device will appear. The device name will be created from the serial number of the logger. You can access the files by browsing to the newly created drive and double-clicking the PDF, CSV or LTD files. For PDF files you need Adobe Acrobat Reader or a similar PDF viewer.

To open the LTD file you need to install the free LogTag® Analyzer software. CSV files can be opened with a text editor, or imported into a spreadsheet program such as Microsoft Excel™.

You can unplug the logger at any time; there is no need to stop the device.

DATA EVALUATION - REPORT



LIGHT PATTERNS

The following table is a useful reference for how your USB LogTag® communicates with the user via the red and green LED's.

SIGNAL	SEQUENCE	OCCURRENCE
Wake-up signal	Sequence of four quick alternate flashes of green OK and red ALERT indicators	<ul style="list-style-type: none"> Displayed after configuration has been successfully applied to the logger. <p>Not to be mixed up with...</p>
Start signal	Sequence of ten alternate flashes of green OK and red ALERT indicators	<ul style="list-style-type: none"> Displayed when the logger starts its recording cycle. The delay timer is re-started (followed by Delay Signal).
Mark signal Delay signal	Sequence of five simultaneous flashes of green OK and red ALERT indicators	<ul style="list-style-type: none"> Displayed when pressing Start/Mark button while recording to indicate an inspection mark in the software. Displayed directly after the start-up signal following a push button start where a recording delay has been configured. In this instance the start-up signal is repeated when the actual recording begins.
Logging active, no alert present	Single flash of green OK indicator every 4 seconds (Approx.)	<ul style="list-style-type: none"> Indicates the logger is recording. <p>This is not displayed when pre-start is active and the main logging cycle has not yet started. It is also not displayed when the green LED has been turned off in the configuration screen.</p>
Logging finished, no alert present	Single flash of green OK indicator every 8 seconds (approx.)	<ul style="list-style-type: none"> Indicates the logger has finished recording. <p>This is not displayed when the green LED has been turned off in the configuration screen.</p>
Logging active, alert condition present	Single flash of red ALERT indicator every 4 seconds	<ul style="list-style-type: none"> Indicates the logger is recording, an alert condition has occurred. This is not displayed when pre-start recording has been configured and the recorder has not yet been started.
Logging finished, alert condition present	Single flash of red ALERT indicator every 8 seconds	<ul style="list-style-type: none"> Indicates the logger has finished recording and an alert condition was present during the trip.
Communication	The green OK indicator will flash occasionally	<ul style="list-style-type: none"> During USB communication the green LED will flash occasionally; no additional information is conveyed in this.
Initiate Stop	Sequence of simultaneous flashes of green OK and red ALERT indicators for 4 seconds	<ul style="list-style-type: none"> This LED sequence appears when the stop sequence is initiated and requires that the STOP button is enabled.
Stopping	Sequence of very quick simultaneous flashes of green OK and red ALERT indicators for 2 seconds	<ul style="list-style-type: none"> When this LED sequence starts, the STOP button must be released for the recorder to stop.
Ready for USB	Two quick flashes of the green OK indicator every second	<ul style="list-style-type: none"> The logger is connected to a USB port and waiting for USB communication.
Generating Files	The green OK indicator is on permanently	<ul style="list-style-type: none"> The logger is generating files. No USB activity will be observed on the computer screen during this time.
Ready for re-flash	The red ALERT indicator is on permanently	<ul style="list-style-type: none"> The logger is ready to receive new firmware. Special software is required to upload new firmware to the logger.

BATTERY REPLACEMENT

Some LogTag® products have a replaceable battery, some of which may be soldered to the electronics to avoid contact issues that exist with other branded loggers; for these you will need some soldering expertise and a battery replacement kit from your distributor.

Please also note that the products do contain a non-rechargeable Lithium Battery, which must be disposed of in accordance with local regulations.

HIBERNATION

To prolong the life of your logger you can hibernate it between trips via LogTag® Analyzer when it is not being used for extended periods. Please refer to the User Guide in the section about Hibernation.

CALIBRATION

All LogTag® products can be calibrated with special utility software, which will be made available to calibration labs upon request. Re-calibrated loggers can be identified and traced back to the calibrating lab thus reducing the risk of fraudulent data tampering.

WATER INGRESS

Please carefully observe the IP rating for your unit and remember that none of the LogTag® products can be immersed into liquids.