

# USB PDF TEMPERATURE RECORDER

## Quick Start Guide

# LogTag Recorders

## Introduction

LogTag's USRIC-8 is a fully configurable, single-use USB temperature recorder that can create temperature reports without the need to install proprietary software or hardware at the destination. It can be plugged straight into a computer's USB port and generates a PDF file, which can be accessed using PDF software such as Acrobat Reader.

## Hardware Requirements

- LogTag® USRIC-8 USB PDF temperature recorder.
- It is recommended you connect all USRIC-8 devices via a permanently plugged in USB extension cable or a USB hub to protect your computer's USB socket.
- A computer running Windows XP, Mac OSX or Linux.
- For configuration - a PC running Windows XP SP3 or later.



## Software Requirements

Software requirements vary depending on the type of file you want the USRIC-8 to generate when plugged into USB at the destination.

- If you wish to **configure** USRIC-8 products you will need to download the LogTag® Analyzer software from LogTag's web site at <http://www.logtagrecorders.com/software.php>. Follow the instruction to install and start the software.

- If you only plan on **evaluating data**, plug the USRIC-8 into a computer's USB socket. A PDF file will be generated<sup>1</sup>, which you can open from the recorder's USB memory storage with PDF reader software such as Acrobat Reader.
- At the same time an LTD file will be created<sup>1</sup> that can be **opened** with LogTag Analyzer. Here you can analyze data in detail, generate report files, export the data to MS Excel and create charts from multiple recorders for comparison.
- You can also **download** data directly into LogTag Analyzer without accessing the recorder's USB memory storage.

## Configuring the USRIC-8

USRIC-8 products can be ordered ready to start or configured using LogTag Analyzer.

- Start the LogTag Analyzer software, remove the protective cap and insert the USRIC-8 into a USB port. You will receive a message that a new USB device has been found<sup>2</sup>, and a generic driver will be installed.
- Once the driver is installed and the USRIC-8 is ready (indicated by the green LED on the USRIC blinking every second), it can receive configuration data.

## Standard Configuration options

The standard configuration options are almost identical to those of standard LogTag® recorder products and include settings such as **User ID, start method, pre-start recording, logging interval and duration, start delay, temperature alert parameters and password.**

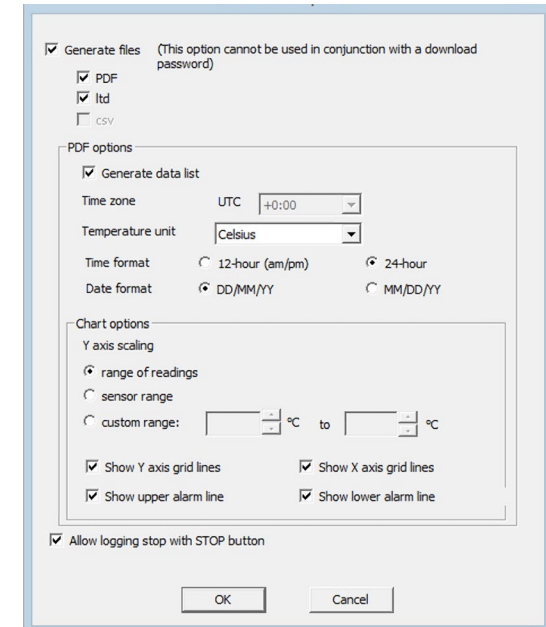
## Advanced Configuration Options

Select **Advanced Options** for additional configuration options.

These options decide which files -if any- are generated at the end of the trip, whether or not the recorder can be stopped using the **STOP** button and also determine the appearance of the PDF file.

Parameters that influence the appearance of the PDF file are

- creation of the data list
- setting of the temperature unit, date and time format
- setting scaling parameters for the chart



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

## Finalising the configuration

- Click **Next** and the recorder will be configured with these settings.
- When the configuration is complete, unplug the USRIC-8 from the USB socket and replace the protective cap.
- If you wish to configure more USRIC-8 units with the same configuration profile, insert the next recorder into the USB socket, wait until it is ready for configuration and click **Again**.
- You can also configure multiple units at the same time.

<sup>1</sup> Depending on the configuration, the USRIC may produce either one or the other file, or none at all if file generation is disabled when configuring the unit.

<sup>2</sup> Depending on the factory configuration additional drivers may be installed at this time.

## Starting the USRIC-8

During configuration you can decide when the USRIC-8 recorder should start taking temperature readings.

- ... via **Push button start**
- The recorder starts taking temperature readings immediately when you press the **START/Mark** button
- ... via **Push button start** with **pre-start logging enabled**
- The USRIC-8 starts recording pre-start readings as soon as it is unplugged from the USB port until you start the unit by pressing the **START/Mark** button.
- ... via **Date/Time start**
- The recorder will start taking temperature readings at the specific date and time.

## While recording...

While the USRIC-8 is recording the green LED blinks every 4 seconds if none of the configured alarm conditions have been met. As soon as one of the alarm conditions is met, the red alert LED blinks every 4 seconds.

## Marking a reading with an inspection mark

When you press the **START/Mark** button, the next reading taken by the USRIC-8 will be identified in the downloaded data with an inspection mark.

## Stopping the Recorder

The USRIC-8 stops recording temperature automatically when the maximum number of readings specified during configuration has been reached.

You can also enable stopping the USRIC-8 with the **STOP** button during configuration.

- Press and hold the **STOP** button. For the next 4 seconds both LED's will blink simultaneously.
- When the LED's start blinking more rapidly release the button. The recorder will now stop taking readings and cannot be re-started.

## Evaluating the Data

Plug the USRIC-8 into your computer's USB port. As part of the process up to four drivers will be installed, depending on the USRIC-8's configuration.

Signal	Sequence	Occurrence
Wake-up signal	Sequence of four quick alternate flashes of green-red LED's	<ul style="list-style-type: none"> <li>• displayed after configuration has been successfully applied to the USRIC-8.</li> <li>• Not to be mixed up with...</li> </ul>
Start signal	Sequence of ten alternate flashes of green-red LED's	<ul style="list-style-type: none"> <li>• displayed when the USRIC-8 starts its recording cycle.</li> <li>• The delay timer is re-started (followed by Delay Signal).</li> </ul>
Mark signal Delay Signal	Sequence of five simultaneous flashes of green and red LED's	<ul style="list-style-type: none"> <li>• displayed when pressing <b>START/Mark</b> button while recording to indicate an inspection mark.</li> <li>• 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.</li> </ul>
Logging active, no alert present	Single flash of green LED every 4 seconds (approx.)	<ul style="list-style-type: none"> <li>• indicates USRIC-8 is recording.</li> <li>• 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.</li> </ul>
Logging finished, no alert present	Single flash of green LED every 8 seconds (approx.)	<ul style="list-style-type: none"> <li>• indicates USRIC-8 has finished recording.</li> <li>• This is not displayed when the green LED has been turned off in the configuration screen.</li> </ul>
Logging active, alert condition present	Single flash of red LED every 4 seconds	<ul style="list-style-type: none"> <li>• indicates USRIC-8 is recording, an alert condition has occurred.</li> <li>• not displayed when pre-start recording has been configured and the recorder has not yet been started.</li> </ul>
Logging finished, alert condition present	Single flash of red LED every 8 seconds	<ul style="list-style-type: none"> <li>• indicates USRIC-8 has finished recording and an alert condition was present during the trip.</li> </ul>
Communication	The green LED will flash occasionally	<ul style="list-style-type: none"> <li>• during USB communication the green LED will flash occasionally; no information is conveyed in this.</li> </ul>
Initiate Stop	Sequence of simultaneous flashes of green and red LED's for 4 seconds	<ul style="list-style-type: none"> <li>• This LED sequence appears when the stop sequence is initiated and requires that the <b>STOP</b> button is enabled.</li> </ul>
Stopping	Sequence of very quick simultaneous flashes of green and red LED's for 2 seconds	<ul style="list-style-type: none"> <li>• When this LED sequence starts, the <b>STOP</b> button must be released for the recorder to stop.</li> </ul>
Ready for USB	Two quick flashes of the green LED every second	<ul style="list-style-type: none"> <li>• The USRIC-8 is connected to a USB port and waiting for USB communication.</li> </ul>
Ready for re-flash	The red LED is on permanently	<ul style="list-style-type: none"> <li>• The USRIC-8 is ready to receive new firmware. Special software is required to load firmware to the USRIC-8.</li> </ul>
Generating PDF	The green LED is on permanently	<ul style="list-style-type: none"> <li>• The USRIC-8 is generating a PDF. No USB activity will be observed on the computer screen during this time.</li> </ul>

While a USRIC-8 is plugged into USB, no temperature readings are taken. The graph will display a gap and the data list will indicate "paused". This also applies when the recorder is connected to a USB power supply.

Once complete, a new storage device or mounted device will appear. You can access the files by browsing to the newly created drive and double-clicking the PDF or LTD files. You will require Adobe Acrobat Reader or a similar PDF viewer; to open the LTD file you will need to install the free LogTag Analyzer software.

The files created by the USRIC-8 are not automatically copied to a permanent storage volume on your computer. If you wish to retain the files you need to manually copy them to a location such as your **Documents** folder.

## Getting Help

If after reading this guide you still need more information please refer to the [USRIC-8 Product User Guide](#) or the [LogTag Analyzer User Guide](#), and also the Help section on the LogTag Recorders website.