

# TRIL-16U AND SRIL-16U USB PDF TEMPERATURE RECORDERS

## Quick Start Guide



### Introduction

The LogTag® TRIL-16U and SRIL-16U are fully configurable, USB temperature recorders that can create temperature reports without the need to install proprietary software or hardware at the destination. It can be plugged 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® TRIL-16U or SRIL-16U USB PDF temperature recorder. It is recommended you connect all TRIL-16U and SRIL-16U devices via a permanently plugged in USB extension cable or a USB hub to protect your computer's USB socket.
- A computer with a USB port.
- For configuration, a PC running Windows 10 or later.



### Software Requirements

Software requirements vary depending on the type of file you want the TRIL-16U or SRIL-16U to generate when plugged into USB at the destination.

- If you wish to **configure** TRIL-16U or SRIL-16U products you will need to download the LogTag® Analyzer software from the LogTag® web site at <https://logtagrecorders.com/ita3/>. Follow the instruction to install and start the software.
- If you only plan on **evaluating data**, plug the TRIL-16U or SRIL-16U

into a computer's USB socket. A PDF file will be generated<sup>1</sup>, which you can open by accessing the 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 and create charts from multiple recorders for comparison.
- You can also choose to create a CSV file, which can be opened directly with MS Excel™.
- You can also **download** data directly into LogTag® Analyzer.

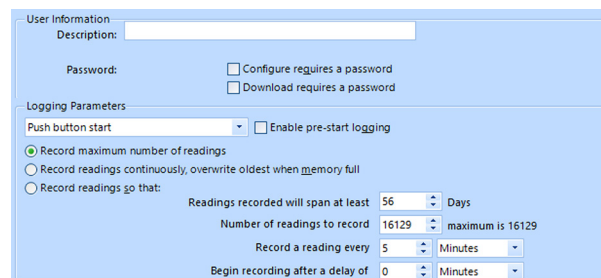
### Configuring the TRIL-16U and SRIL-16U

TRIL-16U and SRIL-16U products can be ordered ready to start, or configured using LogTag® Analyzer:

- Start the LogTag® Analyzer software, remove the protective cap and insert the TRIL-16U or SRIL-16U 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 your TRIL-16U or SRIL-16U is ready (indicated by the green LED on the recorder blinking every second), it can receive configuration data. If the TRIL-16U or SRIL-16U does not appear in the list of devices simply click **Rescan**.

### Standard Configuration Options

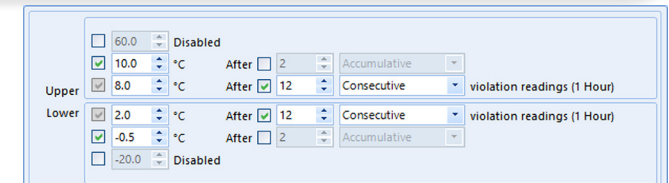
The standard configuration options include settings such as User ID, start method, pre-start recording, logging interval and duration, start delay and password.



### Alarm Settings

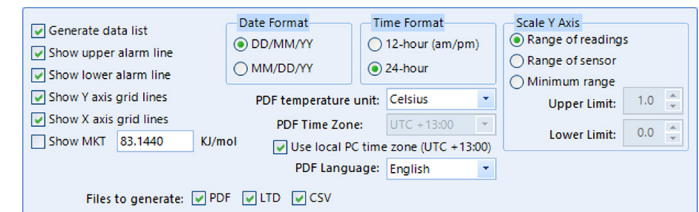
In this tab you define the conditions in which the TRIL-16U and SRIL-16U will display an alert. You can set up to 6 alarm trigger conditions.

<sup>1</sup> Depending on the configuration, the TRIL-16U and SRIL-16U may produce a combination of different file types, 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.



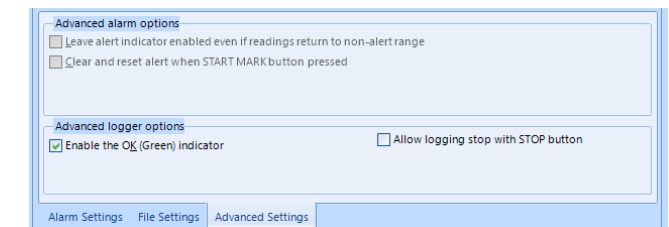
### File Settings

This tab shows the available settings to be applied to generated reports at the end of the trip, and also determine the appearance of the file by setting options such as **scaling**, **grid** and **alarm line display**, **temperature unit**, **date and time format**, **time zone**, **PDF language** and **MKT settings**.



### Advanced Settings

Click **Advanced Settings** for additional configuration options, for example, whether or not the recorder can be stopped using the **STOP** button and enable the OK (green) indicator.



### Finalizing the configuration

- Click **Configure** and the recorder will be configured with these settings.
- When the configuration is complete, unplug your TRIL-16U or SRIL-16U from the USB socket and replace the protective cap.
- If you wish to configure more TRIL-16U or SRIL-16U units with the same configuration profile, insert the next recorder into the USB socket, wait until it is ready for configuration and click **Repeat Configure**.
- You can also configure multiple units at the same time.

## Starting the TRIL-16U and SRIL-16U

During configuration you can decide when the TRIL-16U or SRIL-16U recorder should start taking temperature readings:

- ... via **Push button start**  
The recorder starts taking temperature readings immediately after you press the **START/Mark** button.
- ... via **Push button start with pre-start logging enabled**  
The TRIL-16U or SRIL-16U 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. The pre-start readings will not be shown on the PDF.
- ... with a **Start Delay**  
The recorder starts taking readings, once a defined period has passed after you press the **START/Mark** button.
- ... via **Date/Time start**  
The recorder will start taking temperature readings at the specific date and time (local time).

## While recording...

While the TRIL-16U and SRIL-16U 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 TRIL-16U or SRIL-16U will be identified in the downloaded data with an inspection mark.

## Stopping the Recorder

The TRIL-16U and SRIL-16U stops recording temperature automatically when the maximum number of readings specified during configuration has been reached.

You can also enable stopping the TRIL-16U or SRIL-16U 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.

## Light sequences on the TRIL-16U and SRIL-16U, and what they mean

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 TRIL-16U or SRIL-16U</li> </ul>
Start signal	Sequence of ten alternate flashes of green-red LED's	<ul style="list-style-type: none"> <li>• Displayed when the TRIL-16U or SRIL-16U 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 START/Mark 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 that the TRIL-16U or SRIL-16U 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 that the TRIL-16U or SRIL-16U 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 that the TRIL-16U or SRIL-16U 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 that the TRIL-16U or SRIL-16U 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 TRIL-16U or SRIL-16U 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 TRIL-16U or SRIL-16U is ready to receive new firmware. Special software is required to load firmware to the TRIL-16U or SRIL-16U.</li> </ul>
Generating Reports	The green LED is on permanently	<ul style="list-style-type: none"> <li>• The TRIL-16U or SRIL-16U is generating your report. No USB activity will be observed on the computer screen during this time.</li> </ul>

## Evaluating the Data

Plug the TRIL-16U or SRIL-16U into your computer's USB port. As part of the process up to four drivers will be installed, depending on the TRIL-16U or SRIL-16U configuration. While a TRIL-16U or SRIL-16U 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, CSV or LTD files. For PDF files you will require Adobe Acrobat Reader or a similar PDF viewer. CSV files can be opened with a text editor, or imported into a spreadsheet program

such as MS Excel™. To open the LTD file you will need to install the free LogTag® Analyzer software.

The files created by the TRIL-16U or SRIL-16U 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 [TRIL-16U Product User Guide](#) or the [LogTag® Analyzer User Guide](#), and also the support section on the LogTag® website.