

LogTag[®] Recorders



LogTag[®] Xpress

User Guide

Version 1.2

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Disclaimer

LogTag® Xpress is a utility that allows users to download LogTag® Temperature and Humidity & Temperature recorders and automatically email the data to pre-defined recipients, or upload them to an FTP server.

The distribution of unsolicited e-mails provides huge inconvenience to anyone with an email account. LogTag® Xpress's email function allows the automated emailing of files to a large number of recipients simultaneously without user interaction.

It is therefore of the utmost importance that you as the sender obtain permission from the recipients to send these files. LogTag® Xpress provides this functionality as a feature assisting in the distribution of information between various users within an organisation and will not assume responsibility for any misuse of its software.

This user guide assumes the use of:

- LogTag® Xpress version 1.0r23

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<http://www.logtagrecorders.com>

Introduction

LogTag® Xpress is a sophisticated alternative to the powerful LogTag® Analyzer software, that deliberately comes without a rich feature set and instead focuses on efficiently configuring and downloading the complete range of LogTag® data logging products, with as little interaction as possible.

It runs in the background and monitors all LogTag® interfaces connected to a computer. If a LogTag® recorder is inserted into one of the interfaces, the data stored in the recorder are automatically downloaded, evaluated and optionally stored, sent via email or uploaded to FTP in a number of different formats.

You can use this program to quickly and efficiently arrange data to be downloaded, assessed and transferred to other information stakeholders without the immediate need for a full installation of LogTag® Analyzer.

Features

Notifications and dialogue boxes show what the program is currently doing, and request your input where required.

The program's options and main window can be accessed through an icon in the notification area, located at the far right of the taskbar.



Tip: You can change where the icon appears in the taskbar's properties.

Clicking the icon shows the program's shortcut menu.

Click on...

- ... **Show Activity Window** to open the main **Activity Window**, displaying a history of downloaded recorders and allowing you to perform additional actions,
- ... **Options** to display a collection of **tabs** where you can enter the program's configuration settings, such as where to email files and which notifications to display on screen.
- ... **About Xpress** to display the program's version information,
- ... **Help** to display help in a browser or
- ... **Exit** to exit the program and remove it from the notification area.



Please note that online help is also available via the help buttons in the dialogues or by pressing F1.

System Requirements

These are the minimum specifications for a computer intended to operate LogTag® Xpress:

- PC capable of running Windows7 or later, or Windows 2008 Server or later
- 20MB free disk space
- Microsoft .NET 4.0 framework
- 1 available USB port
- 1024 x 768, or higher, screen resolution.
- 256 screen colours
- Internet connection for email and FTP

Recommended Specifications are as follows:

- Processor equivalent to Pentium IV or later
- 1GB of available RAM
- Internet Explorer 6.0 or later
- 65535 (16bit), or more, screen colours.

Installation

The software is available for download from the LogTag® Recorders LTD website. Visit <http://www.logtagrecorders.com/software.php> and click the **Download Now** button, complete and submit the download registration. Navigate to the "LogTag® Xpress" section with the link for the latest download file. Click on the link and confirm whether you wish to open the downloaded file or to save it to a folder on your PC.

To start the installation of LogTag® Xpress, execute the downloaded file. You will need local administrator rights for your computer to be able to perform this installation. The installer's **Welcome** screen will be displayed:



Figure 1: Installer for LogTag® Xpress

Follow the on-screen instructions to complete the installation.

When you run the program for the first time, the **Option** window will open, so you can enter the required settings into the relevant tabs.

Network Administrators who wish to deploy the software in a server environment will find more information in the LogTag® Network Administrator Guide, available for download through the Network Administrator links.

Typographical Conventions

Text **in this font** refers to buttons on a LogTag® recorder product.

Text **in this font** refers to option settings, dialogue boxes or actions to be taken in LogTag® Xpress.

Text **in this font** refers to program windows or tabs in those windows.

Setting up LogTag® Xpress

Before you start using LogTag® Xpress you will probably want to change some of the settings to better suit your application. These settings influence features such as email and FTP, file name settings and to what degree using LogTag® Xpress will be automated. These settings are made in the **Options** window. To open this window, click on the LogTag® Xpress icon in the notification area, then click on **Options**.

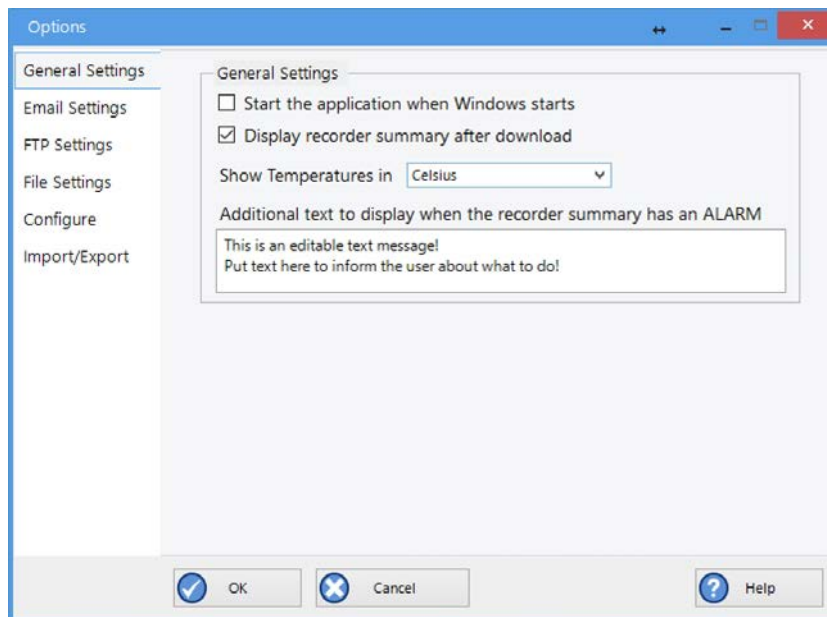


Figure 2: General Settings Window

You see six vertical tabs. Click on a tab to reveal the corresponding settings.

- **General Settings**
In this tab you enter various settings about how the program starts and what you see on screen. This is described in more detail [on page 9 in the section about General Settings](#).
- **Email Settings**
In this tab you enter SMTP and email address information. This is described in more detail [on page 11 in the section about Email settings](#).
- **FTP Settings**
In this tab you enter FTP information. This is described in more detail [on page 14 in the section about FTP Settings](#).
- **File Settings**
In this tab you enter information related to file names and where files are stored locally. You can also select the contents of CSV files, if you choose to save or upload this format. This is described in more detail [on page 16 in the section about File settings](#).
- **Configure**
In this tab you enter information for automatically re-configuring recorders. This is

described in more detail [on page 19 in the section about Configuration Settings](#).

- **Import/Export**

In this tab you can import the program's settings from a file, or export the current settings to a file, so they can be easily transferred to another computer or user. This is described in more detail [on page 21 in the section about Importing and Exporting Settings](#).

Clicking **OK** will save the settings. Clicking **Cancel** will close the settings window without saving the information.

You can also click on Help to display help in your browser.

The settings are stored in a file called LogTagXpress.config, located in the roaming profile. On first start-up, this file is created with default settings.

Your IT Administrator may have already pre-set these settings for you, including Configuration Profiles. Alternatively, you may want to load a settings file from another PC. If this is the case, see [Importing and Exporting Settings](#) on page 21 for further details.

General Settings

Following screen is displayed when you click the **General Settings** tab:

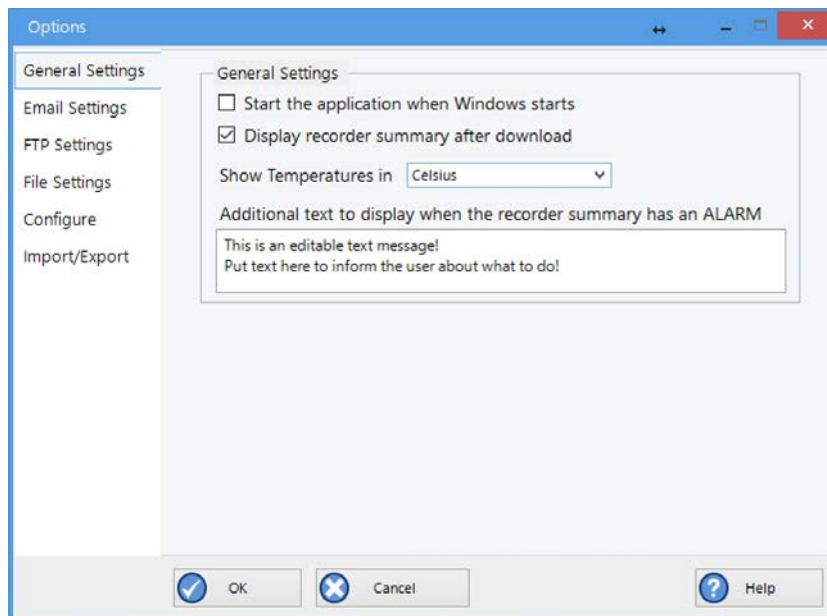


Figure 3: General settings tab

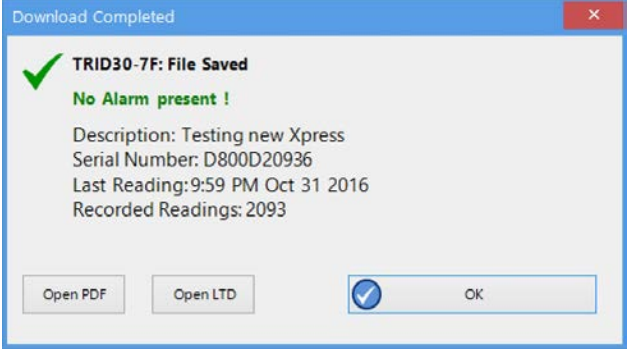
Field	What to enter
Start the application when Windows starts	When you enable this feature, LogTag® Xpress starts automatically when Windows is started.
Display recorder summary after download	<p>When you enable this feature a message with a brief summary about the data appears, after a recorder is successfully downloaded.</p> <p>You will also see a window in the center of your screen telling you whether or not the recorder registered an alarm.</p> 

Figure 4: OK Window

Field	What to enter
	<p>If an alarm has occurred, you may also get some additional text with instructions.</p> <p><i>Figure 5: Alarm Window</i></p>
Show temperatures in:	<p>Here you can select which temperature is displayed on the reports.</p> <p>Please note, when you view the data with LogTag® Analyzer, the settings made in that software are used, rather than the settings made here.</p>
Additional text to display...	<p>This is a text field, where you can enter the message that appears below the Acknowledge button in the Alarm Window. A user can be reminded via this message of a procedure that needs to be followed when an alarm occurs.</p> <p>Press CTRL-ENTER to start a new line in the text field.</p> <p>You can leave this space empty.</p>

Email settings

To set up automated emailing the following two steps are required:

- Completing the [SMTP Server Settings](#) section, so you can connect to a mail server
- Completing the [Email Settings](#) section to define recipients' and sender's email addresses.

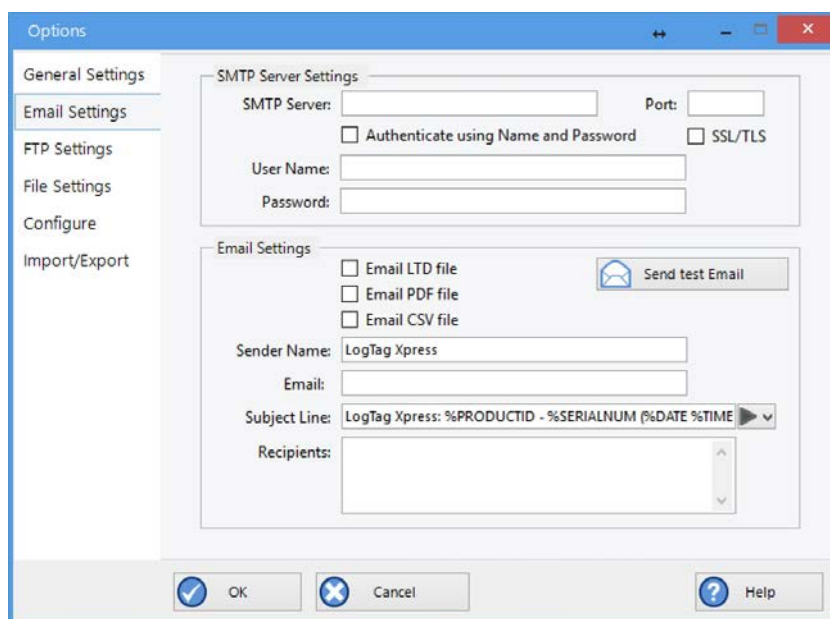


Figure 6: Email settings tab



If you have been supplied with access data by your network administrator we suggest you print the following table, enter the data into the fields provided and keep it in a safe place.

Table 1: SMTP Server Settings

Field	What to enter
SMTP Server	Enter the name of the SMTP server you were given by your network administrator
SSL/TLS	SSL stands for Secure Sockets Layer, TLS for Transport Layer Security. Select this if your SMTP server requires a secure connection. Your network administrator will advise you to set this up if required.
Authenticate using name and password	Most SMTP servers require an authentication method, especially if the SMTP server you are using is not provided by your ISP, e.g. if you are using email accounts from a hosted site. In this case you need to tick this box and provide login data for this SMTP server.

Field	What to enter
User Name	Enter the user name you have been allocated by your network administrator required for Authentication. Please note that for authentication this often needs to include a full email address rather than just the SMTP login.
Password	Enter the password you have been given by your network administrator required for Authentication.

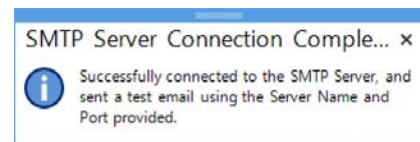
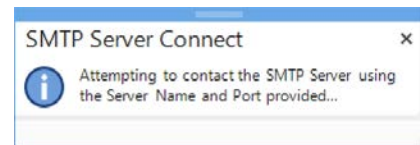
Table 2: Email Settings

Field	What to enter
Email LTD file	When enabled, a *.LTD file is generated from the data downloaded from the recorder and automatically emailed to the recipients defined below.
Email PDF file	When enabled, a *.PDF file is generated from the data and automatically emailed to the recipients defined below.
Email CSV file	When enabled, a *.CSV file is generated from the data and automatically emailed to the recipients defined below. You can select any combination of file formats to be emailed.
Sender Name	Enter the name as it should appear in the recipients' email program. This can be your name or your organisation's name.
Email address	Enter the email address that recipients can reply to when clicking reply button of their email program. This can be your email address, or someone else's address.
Subject Line	<p>Text entered in this line will be displayed in the subject line of the email when displayed on the recipients' email programs.</p> <p>Clicking on the  button will allow you to specify some file related information which will be entered into the subject line at the time of sending. You can mix your own text with the file related information.</p> <p>Tip: If you include the Alarm status (%ALARM) in the subject line, any recipient can immediately filter out messages for recorders that had an alarm.</p> 
Recipients	Enter the email addresses of the intended recipients. If you want to add multiple addresses, separate each one with a semicolon.

As a minimum you may only need to provide an SMTP server address and one recipient email address for this function to work.

When you have finished setting up, click the **Send test Email** button. This sends an email to the address listed in **Sender email address**.

You will receive a success message if LogTag® Xpress was able to successfully connect to the SMTP server.



If the test email cannot be sent, you will see an error message:

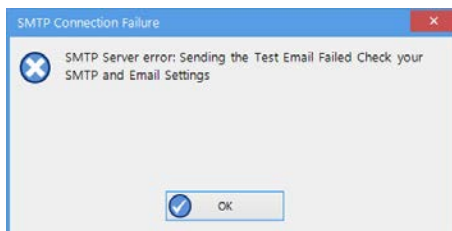


Figure 7: Error in SMTP settings

FTP Settings

Clicking on the FTP tab opens this window:

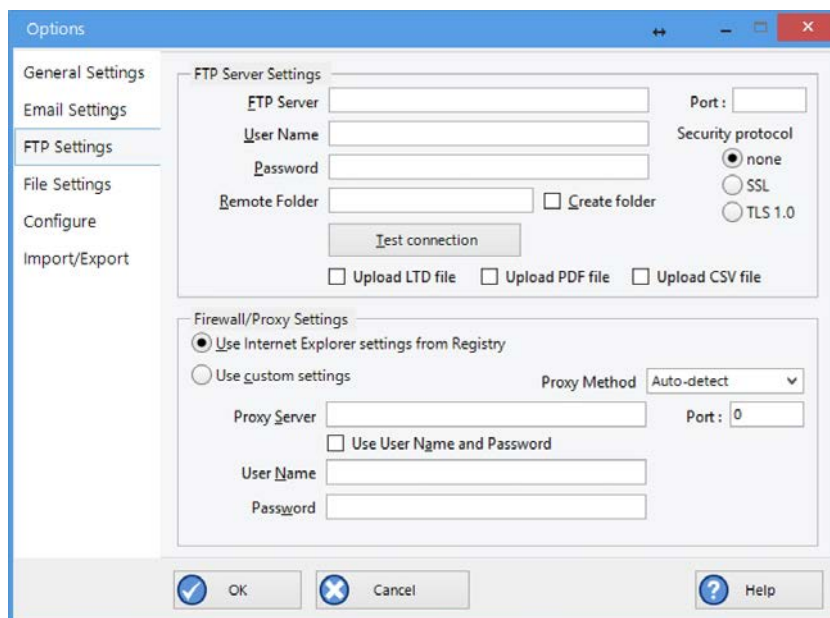


Figure 8: General settings tab

To set up automatically uploading downloaded files to an FTP server you need to complete the **FTP Server Settings** section:

Field	What to enter
FTP Server	Enter the name of the FTP site you were given by your network administrator
User Name	Enter the user name you have been allocated by your network administrator
Password	Enter the password you have been given by your network administrator
Remote folder	Enter the folder in which the data files should be uploaded. Please note that not all FTP servers allow creation of files or folders in the root directory. Please discuss any of your requirements with your network administrator.
Create Folder	Tick this box if the remote folder is not yet present on the FTP site and you wish to create it.

Field	What to enter
Port Number	<p>The default port for providing FTP connections is 21. Some network administrators change the port number on their FTP servers to increase security and stop hacking attacks. If your network administrator has advised a different port for connection, please enter it here.</p> <p>In this case you may also need to change the settings of you firewall.</p> <p>If you wish to learn more about this topic please see any of the published articles on networking and TCP/IP available on the Internet.</p>
Security Protocol	Choose between none, SSL or TLS
Upload LTD file	When enabled, a *.LTD file is generated from the data downloaded from the recorder and automatically uploaded to the FTP server specified.
Upload PDF file	When enabled, a *.PDF file is generated from the data and automatically uploaded to the FTP server specified.
Upload CSV file	<p>When enabled, a *.CSV file is generated from the data and automatically uploaded to the FTP server specified.</p> <p>You can select any combination of file formats to be uploaded.</p>
Firewall/Proxy Settings	<p>Use the settings from the registry or choose your own settings. Please discuss any custom settings you may need to enter with your network or IT administrator.</p>

File settings

Select the File tab to change settings that influence file name and location of the downloaded data.

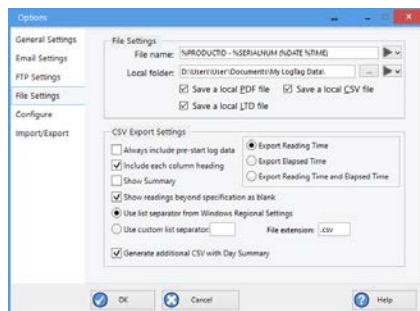







Figure 9: File tab

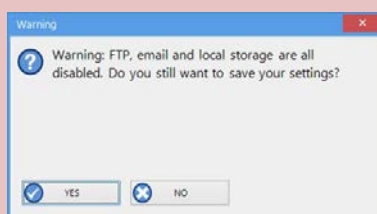
Table 3: File Settings

Field	What to enter
File name	<p>Text entered in this line will be used to generate the name of the file containing the downloaded data.</p> <p>Clicking on the  button will allow you to insert information related to the recorder, such as model or serial number, at the cursor location.</p> <p>You can mix your own text with recorder related information.</p> <p>As a minimum we recommend to use serial number and download date information, so you can easily identify where the downloaded files originated.</p> <div data-bbox="1075 981 1321 1503">  <ul style="list-style-type: none"> Alarm Status Date File Created Date LogTag Finished Date LogTag Started Date of First Reading Date of Last Reading LogTag ID Model ID Number of Times Started Serial Number Time File Created Time LogTag Finished Time LogTag Started Time of First Reading Time of Last Reading User ID </div>

Field	What to enter
Local Folder	<p>Enter the local folder in which files will be stored. Clicking on the  button will allow you to insert system information such as user name and home drive.</p> <p>You can also click  and browse to the folder of your choice.</p> 
Save local LTD file	When enabled, a *.LTD file is generated from the data downloaded from the recorder and automatically saved to the specified folder.
Save local PDF file	When enabled, a *.PDF file is generated from the data and automatically saved to the specified folder.
Save local CSV file	<p>When enabled, a *.CSV file is generated from the data and automatically saved to the specified folder.</p> <p>You can select any combination of file formats to be saved.</p>

To store a specific file type locally you have to enable the corresponding [Save local xxx file](#) option. If you choose to only email or upload files, they will be created in a temporary folder, and deleted once the email/upload process has completed.

If you disable all file generation you will receive following error:



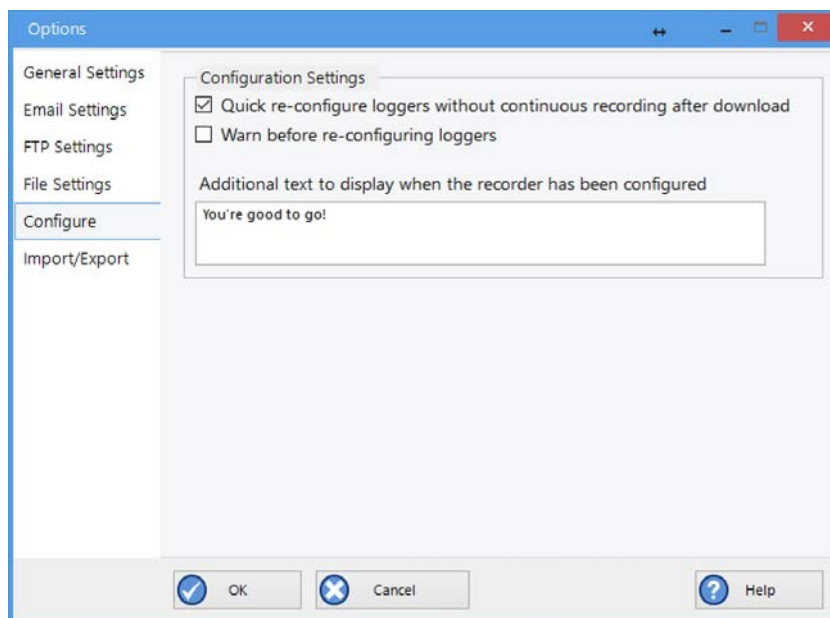
If you click **YES**, the data are downloaded and evaluated, but not saved anywhere.

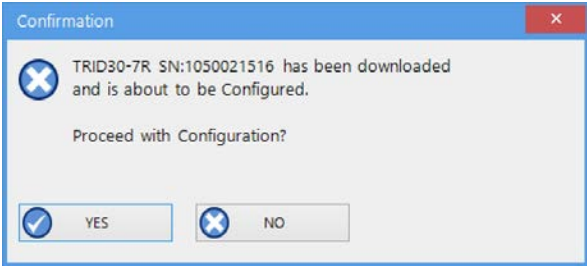
Table 4: CSV Export Settings

Field	What to enter
Always include pre-start log data	When selected, the *.CSV file will contain any pre-start readings the recorder collected.
Include each column heading	When selected, each column in the *.CSV file will contain a heading of what the value represents, such as "Index", "Date", "Time" etc.
Show Summary	When selected, a summary of the recorder's trip will be included in the *.CSV file. It contains information such as trip number, minimum and maximum readings and more.
Show readings beyond specification as blank	When selected, any readings recorded that lie outside the product's published specification are listed with a blank entry. For example, any readings recorded at -199°C (value recorded for a TRED30-7 with a disconnected sensor) would be shown as blank.
Export Reading Time Export Elapsed Time Export Reading Time and Elapsed Time	Select if you wish to have a column with the times and dates, a column with the elapsed time, or both.
File extension	The default file name extension is .csv, however you can change the extension here, for example to .txt. Include the full stop.
Use list separator from Windows Regional Settings Use custom list separator	<p>*.CSV Files created by LogTag® Xpress may not always be true CSV files (Comma Separated Values), as they use the list separator from the Windows operating system, which in most cases is not a comma. It does however mean the file can be opened with MS Excel without going through the data import facility.</p> <p>To create a true CSV file select "Use custom list separator" and enter a comma in the adjacent field. You can also use the custom list separator to generate files for applications which require other list separator characters.</p>
Generate additional CSV with Day Summary	If selected, a second *.CSV file will be generated for recorder models with a statistics memory, containing the day summary with the data that would typically be seen on the unit's display during review.

Configuration Settings

When you click Configuration Settings, following window is shown:



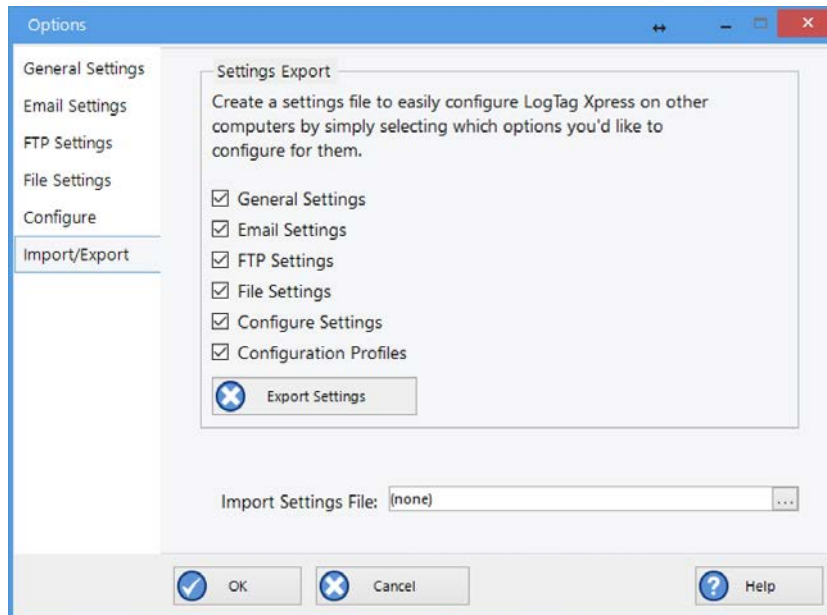
Field	What to enter
Quick reconfigure loggers without continuous recording after download	<p>When enabled, a recorder will be re-configured with the previous settings after it was successfully downloaded.</p> <p>Any recorder configured to take continuous readings will not be re-configured.</p> <p>If a recorder was configured initially for a date/time start, it will be re-configured to start 5 minutes after is has been configured.</p>
Warn before re-configuring loggers	<p>When enabled, you need to confirm re-configuration by clicking Yes or No.</p>  <p>If you click Yes, the recorder will be re-configured, if you click No , the recorder will not be re-configured.</p>

Field	What to enter
Additional text to display after recorder has been configured:	<p>This is a text field, where you can enter the message that appears below the OK button in the Configuration complete window. A user can be reminded via this message to start the recorder, or of a procedure that needs to be followed after a recorder has completed the configuration process.</p> <p>Press CTRL-ENTER to start a new line in the text field.</p> <p>You can leave this space empty.</p>

Importing and Exporting Settings

You can import the program's settings from a configuration file that was prepared by someone else, or export the program's settings, so they can easily be transferred to another PC or another user on the same PC.

Exporting the settings



You can export all settings at once, or select individual sections. When you have made your selection, click on **Export Settings**, and a file explorer window opens.

Accept the default location and file name, or browse to a different folder, select your own file name and click **Save**.

Tip: When you are planning to export your settings, use generic names for the path name in the **Local folder** settings field for the **File Settings**, for example %USERNAME instead of your actual user name, and %HOMEDRIVE instead of "C:\". This way a user importing the data does not have to make changes to this value.

Importing Settings

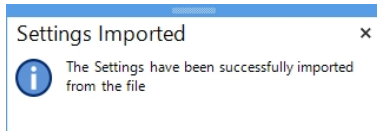
You may wish to import settings from another computer, or from a file that your Network Administrator has prepared for you.

To do that, click the Ellipsis button (...) next to **Import Settings file** and select a file in the **File Explorer Window** to be imported.

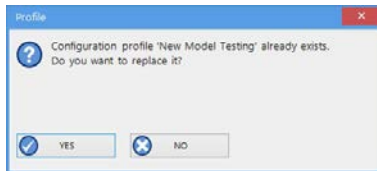
The file you select for import must conform to a specific format. It must have a *.config file extension and must be created either from an xml template file (available from the LogTag®

Recorders LTD website), or from another installation of LogTag® Xpress on a different computer.

When the import is successful, following message is displayed:



If the file you are importing contains a profile with the same name of one that already exists in your settings, you will be asked to confirm, that the new profile should overwrite the existing profile. Select **Yes** to overwrite, or **No** to keep the existing profile.



The import file may not contain all settings, but only a subset. In that case all settings not present in the import file will remain as they are.

You can also use drag-and-drop to import a settings file. Simply browse to the location of the *.config file in Windows File Explorer, and drag the settings file onto the Import/Export window.

Generating Configuration Profiles

You can use LogTag® Xpress to configure recorders with the parameters required for recording data. You do this with a configuration profile, so before you can configure recorders, you need to set up a configuration profile for each of the models you plan to use.

Tip: You do not need to use LogTag® Xpress for configuration, you can also use LogTag® Analyzer, if you have this software installed on your computer.

You access the configuration profiles from the [Profiles](#) icon in the main activity window.

Please find more detailed information in these topics:

Profiles Grid

When you first select this feature the profiles grid will contain a single sample profile.

You fill the grid by adding or importing profiles.

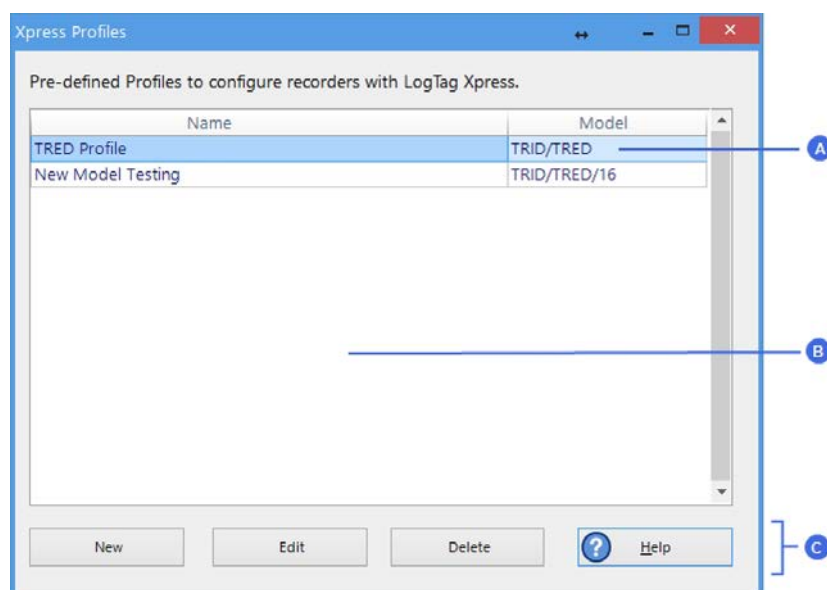


Figure 10: Profiles in the profile grid

- A Profile
- B Profile grid
- C Profile buttons

Profiles from the grid can then be used to configure recorders. A single click on the column title will sort the profile using this column, and a further click on the same column will reverse the sorting order.

Use the buttons to generate a new profile, to edit an existing profile or to delete an existing profile. You can select multiple profiles for deletion when you hold down the **CTRL** key while clicking, but you cannot edit more than one profile at the same time.

Adding and Editing Profiles

After you clicked the **New** button, the **Edit Profile** window is displayed.

The screenshot shows the 'Edit Profile' window with the following fields and sections:

- Profile Name:** A text field containing 'New profile' (labeled A).
- Model:** A dropdown menu showing 'TRID_TRED' (labeled B).
- User Information:** A section with a 'Description' text field and two checkboxes: 'Configure requires a password' and 'Download requires a password'.
- Logging Parameters:** A section with a 'Push button start' dropdown, an 'Enable pre-start logging' checkbox, and radio buttons for 'Record readings continuously, overwrite oldest when memory full' and 'Record readings go that:'. The latter is selected, leading to:
 - 'Readings recorded will span at least' with a spinner set to '26' and the unit 'Days'.
 - 'Number of readings to record' with a spinner set to '7500' and a note 'maximum is 7777'.
 - 'Record a reading every' with a spinner set to '00:05:00' and the unit '5 Minutes'.
 - 'Begin recording after a delay of' with a spinner set to '00:00:00' and the unit 'None'.
- Logger display temperature unit:** A dropdown menu set to 'Celsius'.
- Upper Alarm:** A section with a checkbox 'Trigger alarm when readings above/equal', a spinner set to '99.0' and unit '°C', and a dropdown for 'violation readings (None)'.
- Lower Alarm:** A section with a checkbox 'Trigger alarm when readings below/equal', a spinner set to '-40.0' and unit '°C', and a dropdown for 'violation readings (None)'.
- Parameter tabs:** At the bottom, there are two tabs: 'Alarm Settings' and 'Advanced Settings' (labeled D).
- Buttons:** At the bottom right, there are 'Save', 'Cancel', and 'Help' buttons.

Callouts A, B, C, and D point to the Profile Name, Model, Logging Parameters section, and Parameter tabs respectively.

Figure 11: New profile window

- | | | | |
|---|----------------|---|--------------------------|
| A | Profile name | C | Configuration parameters |
| B | Recorder model | D | Parameter tabs |

Tip: The same window will be displayed when you press the **Edit** button. Every entry field is now populated with the saved value for this profile. Any entry field can be edited, with the exception of the model type.

Add a name for the profile. Use a descriptive name, and include the model type if you are using more than one in your organisation.

Choose a recorder model to which the profile can be applied. Different models vary in the parameters they offer, so not every profile can be applied to every model.

Set the configuration parameters to suit your application. Note, that most models have two, some have three parameter tabs. Click on each of the tabs to show the additional parameters.

You can learn more about the configuration parameters for each recorder in [Appendix 1 - Configuration Parameters](#) on page 37. To find more detailed information about these parameters please refer to the LogTag® Analyzer User Guide, which can be downloaded from the **Support/Download** section of the [software page](#) on the LogTag® Recorders LTD website, in particular the chapter about [Setting up a LogTag® for recording](#).

When you have finished entering the parameters, click **Save** to save the profile, **Cancel** to discard any changes. Help for this screen is available by selecting **Help**.

If you are unable to save any changes, the profile may be read only. Please discuss this with your Network Administrator or the person who set up the profile.

Configuration Parameters

This part of the configuration profile allows you to enter all the different options that affect how the LogTag® records data during its next trip, what alarms are indicated and how you interact with it.

Please refer to the tables in [Appendix 1 - Configuration Parameters](#) on page 37 for a list of parameters available. Please note that not every option may be presented on the screen for each of the LogTag® models.

Common parameters that are typically used for each model can be found in the top half of the window. Alarm and display parameters are found in the bottom half of the window in a series of tabs, which you can click.

For a full list of parameters and more detailed explanations please refer to the LogTag® Analyzer User Guide, which can be downloaded from the LogTag® Recorders LTD website's [software download page](#).

Restricting Access for Configuration

You can enable a password protection feature. Once enabled, a user will need to provide the correct password when next setting up the LogTag® for recording.



Figure 12: Password entry

A confirmation of this password is required.

Please note that this password only protects a recorder from having its recording

parameters changed (e.g. via the **Configure** function), not from being automatically re-configured with the same parameters.

If you want to ensure that a user cannot re-configure a recorder without providing a password, even with the same parameters, you need to enable the data protection feature, as described next.

Protecting Recorded Data

You can configure most models so they require a password before you can access recorded data. This function can be enabled in the Profile's Configuration Parameters by selecting the check box next to "Download requires password". The same password is used to protect configuration and download.

When downloading such a recorder during normal operation, the password will be requested.

Password Rules

The password can be up to 6 characters long (16 characters for USB recorders) and can contain a mix of letters, numbers and special characters. The selected input language of the computer's operating system determines which special characters can be selected. Passwords for USB recorders are limited to standard characters only.

If you use special characters for languages such as Japanese or Chinese the maximum number of characters that can be used will be reduced due to the increased memory required to store the characters.

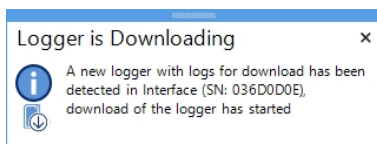
LogTag® Xpress Day-to-day Operation

Start LogTag® Xpress by double-clicking its icon.



When LogTag® Xpress is running, simply insert any recorder into a connected interface for processing. You will see a number of different notifications and windows:

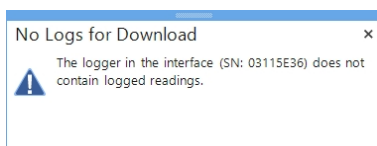
New recorder detected



A new recorder was found in the attached interface, and LogTag® Xpress is now downloading the recorder, if it has readings, for further processing.

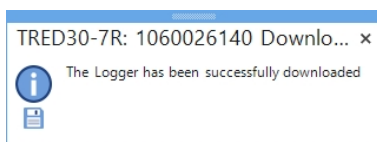
Note: You can stop LogTag® Xpress from automatically downloading data from a recorder by holding down the **CTRL** key when inserting the recorder. This is useful if you have a new recorder that you wish to configure with a profile.

New recorder detected, which has no stored readings



A new recorder was found in the attached interface, but it has no readings to download or process.

Data successfully downloaded



The readings from this recorder were downloaded successfully. The data are now being processed according to the settings.

Alarm Notifications

When you have selected **Display Summarised Data after download**, you will see a message with a brief summary after each download, showing whether or not the recorder has had a previous alarm.

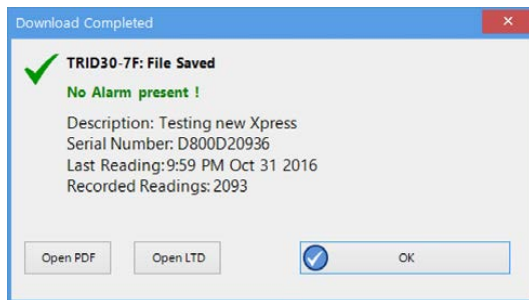
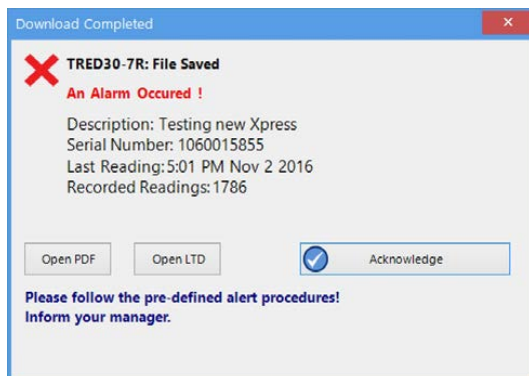


Figure 13: No alarm during last trip



Figure 14: Alarm during last trip



In either window you can click...

- ... **Open PDF**, if you wish to view a summary report in your default PDF viewer
- ... **Open LTD**, if you wish to inspect the data more closely using LogTag's data format and the corresponding evaluation software LogTag® Analyzer. If this software is installed on your computer, it will automatically open and display the file contents.

If **no Alarm is present** in the recorder, the window will automatically close after 10 seconds, or when you click **OK**. If **an Alarm occurred**, you will need to confirm that you have seen the alarm by clicking **Acknowledge**, as this window will not automatically close.

Here is the PDF as it appears in Internet Explorer:

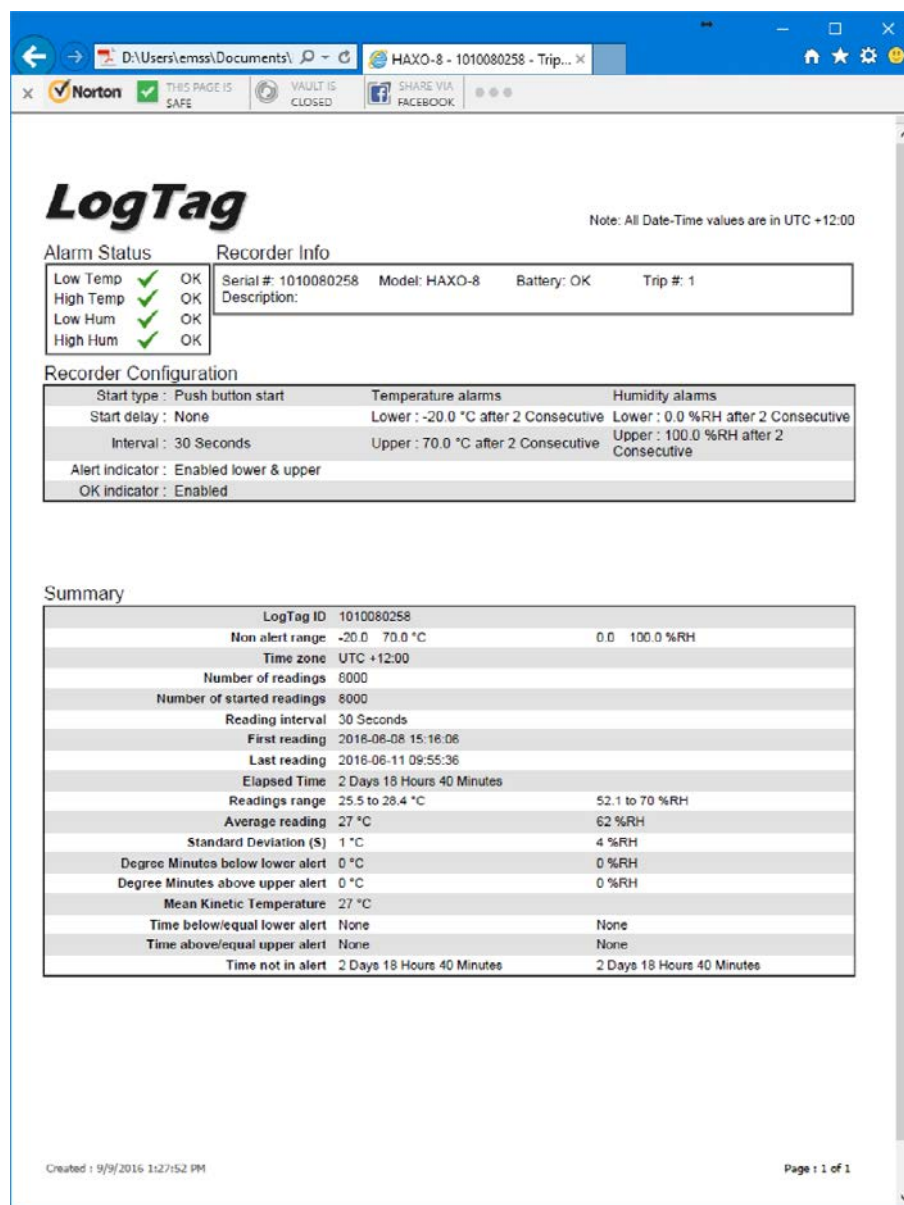


Figure 15: PDF report in Internet Explorer

Here is the file displayed in LogTag® Analyzer:

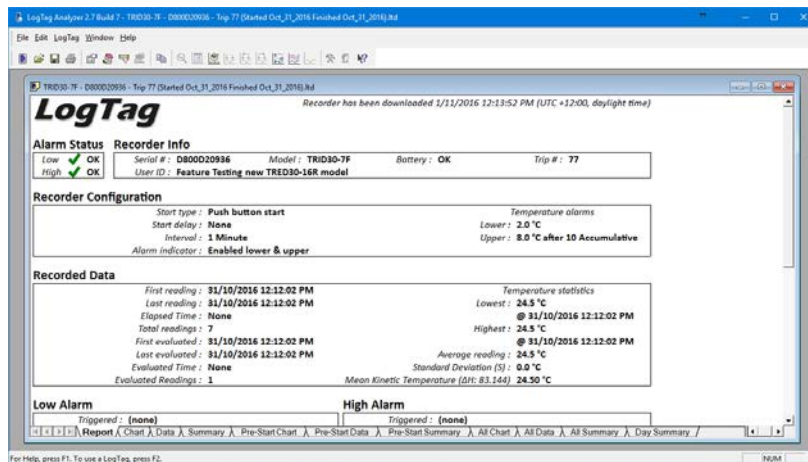


Figure 16: Data displayed in LogTag® Analyzer

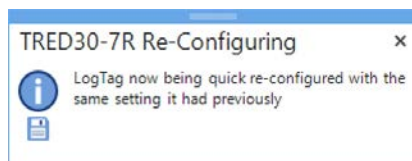
The screenshot shows an Excel spreadsheet with the following data:

Index	Date	Time	Elapsed	Readings (°C)	Type
24	1 Apr 2 2017	5:18:50	0:00:00	73.5	
25	2 Apr 2 2017	5:19:50	0:01:00	73.5	
26	3 Apr 2 2017	5:20:50	0:02:00	73.5	
27	4 Apr 2 2017	5:21:50	0:03:00	73.5	
28	5 Apr 2 2017	5:22:50	0:04:00	73.5	
29	6 Apr 2 2017	5:23:50	0:05:00	73.5	
30	7 Apr 2 2017	5:24:50	0:06:00	73.5	
31	8 Apr 2 2017	5:25:50	0:07:00	73.5	
32	9 Apr 2 2017	5:26:50	0:08:00	73.5	
33	10 Apr 2 2017	5:27:50	0:09:00	73.5	
34	11 Apr 2 2017	5:28:50	0:10:00	73.5	
35	12 Apr 2 2017	5:29:50	0:11:00	73.5	
36	13 Apr 2 2017	5:30:50	0:12:00	73.5	
37	14 Apr 2 2017	5:31:50	0:13:00	73.5	
38	15 Apr 2 2017	5:32:50	0:14:00	73.5	
39	16 Apr 2 2017	5:33:50	0:15:00	73.5	

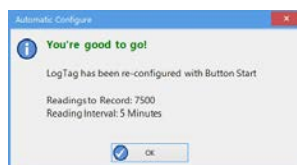
Figure 17: CSV Data displayed in MS Excel

Reconfiguration

When you have selected **Quick re-configure recorders without continuous recording after download**, the recorder that was just downloaded will immediately be re-configured with the settings from the trip just completed.

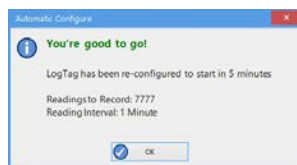


Typically this means the recorder is re-configured for a push button start with the same Alarm and logging parameters as before. You will see a confirmation window when the configuration process has completed successfully.

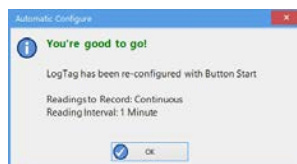


This window will auto-close when you remove the recorder from the interface.

If the recorder was configured for a date/time start in LogTag® Analyzer, it will now be configured to start 5 minutes after being configured.



If the recorder is recording continuously (i.e. erasing the oldest readings when the memory is full, see description of this feature on page 1), and is still recording readings, it will not be re-configured. No confirmation will be displayed. If the recorder was manually stopped, it will be re-configured for continuous logging with the same parameters as were used in the last trip.



Low battery

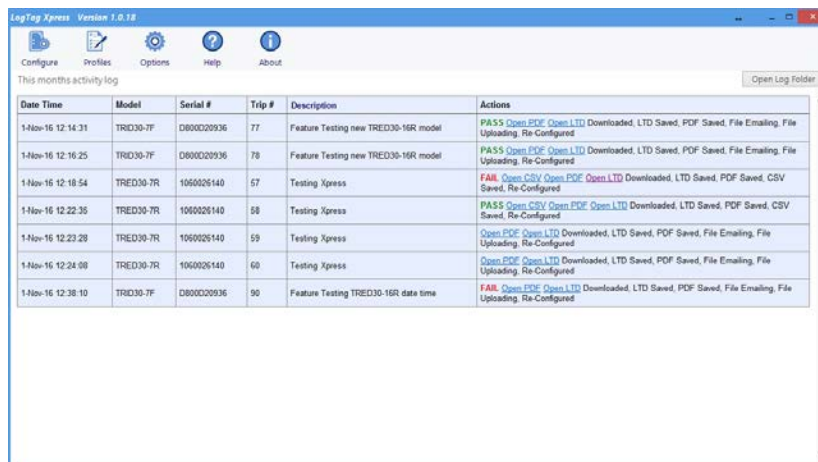
Recorders with a low battery cannot be re-configured. Instead, a warning message appears:



If your recorder has a user-replaceable battery, it needs to be changed now. Recorders without replaceable batteries need to be discarded and replaced.

Activity Window

When you click **Show Activity Window**, the Activity Window will open, where you can access historical data, create and edit profiles and configure units for first use.



Analysing historical data

For the **current calendar month** you can see at a glance ...

- ... the date and time a recorder was downloaded or configured
- ... the model and serial number of the recorder
- ... the trip number
- ... the description / User ID
- ... A list of actions that were associated with the recorder

You can view the PDF¹ and CSV² files or you can open the file in LogTag® Analyzer³ for charting and further analysis. You can also see if the file was emailed or uploaded, if the recorder was re-configured and if any errors occurred.

To view or download files, the [Save local file](#) option must be enabled for the corresponding file type.

If you wish to see data from earlier than the current calendar month you can click on **Open log folder**. This will open a **File Explorer window**, showing the location where the log files are stored. These files are in html format and can be opened in your default browser via

¹ Opens in a separate browser window

² Opens in an application of your choice

³ To open the LTD file you will require LogTag® Analyzer to be installed

double-click. The information displayed is the same as in the Activity Window, and you can open PDF, CSV and LTD files in the same way.

Configuration Profiles

The Activity Window gives you access to the [Profiles](#) icon. When you click the icon, the Profiles Window opens. Here you can add new profiles and edit existing ones. This is described in detail [on page 23 in the section about Generating Configuration Profiles](#).

Configuring Recorders

During normal use the automatic re-configuration process typically means that you do not have to enter any configuration data for a recorder. There are however circumstances where you may wish to update the recording parameters of a specific recorder, or you wish to configure a recorder the first time it is used.

Recorders are configured using **Configuration Profiles**. How to enter these is described in the section about [Generating Configuration Profiles](#) on page 23. If there is no configuration profile available for your recorder model you will need to add one using the **Profiles** button.

To transfer the configuration data to a recorder please do the following:

Open the [Activity Window](#) and click on **Configure** to open the [Configure recorders](#) window.

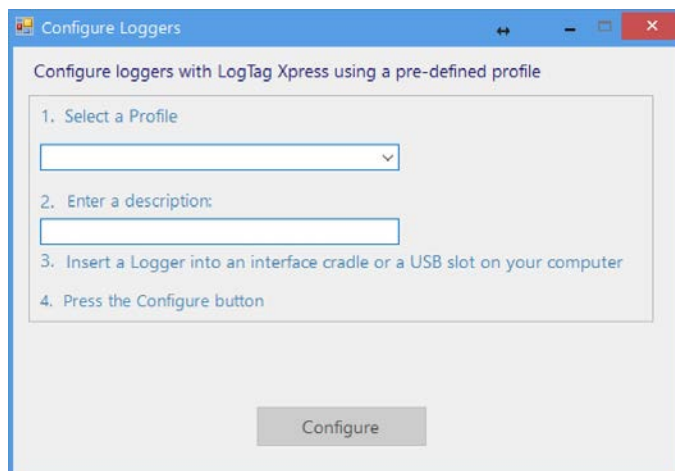


Figure 18: Configuration Dialogue

1. Click on the down arrow and select the configuration profile you want to use.
2. Enter a description specific to the recorder you are configuring. If the profile has a pre-set description, the text field will already be pre-populated, but you can change or delete this and provide your own.
3. Insert the recorder you wish to configure into the interface.
4. Click **Configure** to upload the new configuration data to the recorder.

A progress bar will appear:

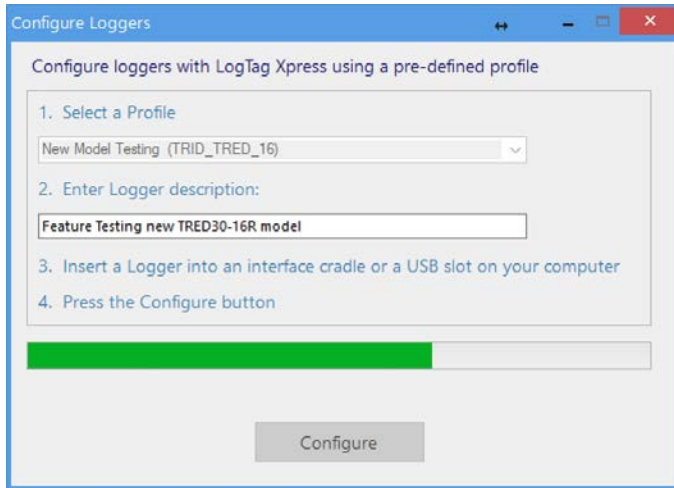


Figure 19: Configuration is progressing

When the process completes successfully, you will see the following:

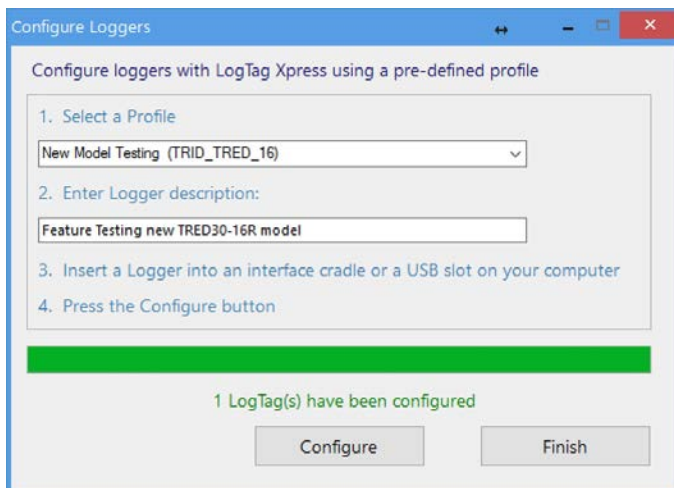


Figure 20: Configuration complete

You can now remove the recorder from the interface and start it.

- If you wish to configure another recorder of the same model with the same parameters, insert it into the interface and click **Configure** once more.
- If you wish to configure another recorder of a different model, insert it into the interface, select a different profile, update the description and click **Configure**.
- If you have finished configuring recorders, click **Finish** to close the dialogue.

If there is a problem during configuration an error message will be displayed. Please refer to the section about [Troubleshooting](#) on page 36 for more information about the most common errors.

USB Recorders

There is a short delay after a USB recorder is plugged in, before it can be accessed by LogTag® Xpress. This has two causes:

- As soon as the USB recorder is plugged in, it generates any files it has been configured for. This process is skipped for units that are factory-new, as there are no files to generate, however with subsequent configuration for multi-use devices this process can take some time, especially if the unit has a full memory buffer and has been configured to create PDF, CSV and LTD files. While the files are being generated, the green LED is permanently lit.
- After file generation is complete, the recorder starts a registration process with the operating system called [USB Device Enumeration](#). It will take a few seconds while the operating system loads the required drivers. When this process is complete, the green LED blinks.

LogTag® Xpress can only detect and communicate with the USB recorder once all files are generated and it has completed USB enumeration.

Note: Newer USB recorders suppress file generation while LogTag® Xpress is running. This speeds up communication between software and recorder and is particularly useful for multi-trip recorders, as they can be re-configured quickly without having to wait for all files to be generated. If you wish to access the files on the device itself please close LogTag® Xpress and wait for the device to be enumerated.

Troubleshooting

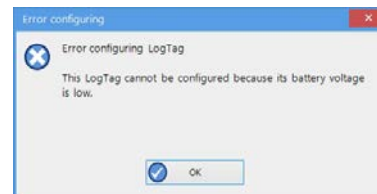
You will receive an error message if there are errors during communication with the recorder in the interface.

The error messages are displayed in different dialogues, depending on what you are doing at the time.

When using "Configure"

During Download or Automatic re-configuration

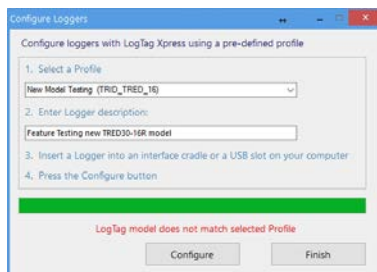
The battery is low, and the recorder cannot be configured or downloaded as a result:



No reply was received from the recorder:



An incorrect profile was chosen for the model to be configured:



N/A

You can try to configure the recorder again, or click **Finish** to close the dialogue. Other error message may appear. In this case please contact your local distributor for assistance.


Appendix 1 - Configuration Parameters

This appendix contains an overview over the parameters that can be entered when creating or editing Configuration Profiles.

Not each parameter is available for every model. For a detailed description of what each of the features does please read the LogTag® Analyzer User Guide and the individual Product User Guides for each product. These documents are available from the Product pages on the LogTag® Recorders LTD website at <http://www.logtagrecorders.com/products.html>.

User Related Configuration Parameters

User related configuration parameters are entered at the top of the Parameter Pane:

The image shows a software interface for user configuration. It has a title bar 'User Information'. Below it are two text input fields: 'Description:' and 'Password:'. To the right of the 'Password:' field are two checkboxes. The first checkbox is labeled 'Configure requires a password' and the second is labeled 'Download requires a password'.

Description

(optional)

This can be used for identification of the load in transit to be monitored, or simply an identifier that describes the purpose of the monitoring. Bill of Loading information, Shipper, commodity, contact name and other relevant information can be placed here.

The Description can be up to 38 characters long (36 for recorders with a display) and can contain a mix of letters, numbers and special characters. The selected input language of the computer's operating system determines which special characters can be selected.

If a user decides to make use of special characters, extra information about the language used is stored inside the recorder.

If you use the special character sets for languages such as Greek or Chinese the maximum number of characters that can be used will be reduced due to the increased memory required to store the characters.

To view the PDF file generated by a USB recorder, the fonts used must be present on the receiver's computer. PDF Reader software typically only installs a small number of fonts, none of which support an extended character set. Therefore, you can only use ASCII characters in the User ID field when configuring a USB recorder.

Configure requires a password

If you select this option, any user wishing to configure the recorder in the future must provide this password. A new entry field appears, where you can specify which password you wish to use.

Passwords are case sensitive ("Bob" and "bob" for example are different passwords).

If you enter a new password, or change an existing password, you will need to verify the password when you click Configure.

If you use special character sets for languages such as Greek or Chinese, the maximum number of characters that can be used will be reduced due to the increased memory required to store the characters.

Due to the restrictions in the [Description](#) field you can only use ASCII characters in the password field when configuring a USB recorder.

Download requires a password

If you select this option, the LogTag®'s recorded data can only be downloaded after entering the correct password.

Only one password can be provided for each LogTag®. The same password applies to the Configure and Download actions.

Logging Related Configuration Parameters

Logging related configuration parameters are entered in the middle section of the Parameter Pane:

Start method

(mandatory)

This is used to determine how/when the LogTag® will start recording its next set of readings.

- Push button start

When the 'Push button start' option is selected, the LogTag® will start recording when the **START** button has been pressed and held until both the OK and Alert lights alternately flash on and off.

- Push button start from hibernation

When the 'Push button start from hibernation' option is selected, the LogTag® will start as if programmed for 'Push button start'. The difference is that once the configuration is successfully uploaded to the LogTag® it will be placed into hibernation. When the **START/Mark** button is pressed and held, the LogTag® will wake from hibernation and start recording with the parameters as configured.

Note: When using this start option, the real time clock inside the recorder is suspended until logging starts. When downloading at the end of the trip, the reading times are back-calculated based on the time of the computer on which the unit is downloaded. It is therefore necessary that computer is set to the correct time, so the downloaded data have the correct date/time.

Not every LogTag® model can support every start mechanism. If a start option is not listed when configuring a particular LogTag®, this option is not available for this model.

Enable pre-start logging

(optional)

When you enable Pre-start logging, the recorder starts taking readings as soon as the configuration data have been uploaded. If you forget to press the START button, the data for the trip will still be available. This insures no critical data are lost.

Pre-start readings will not be recorded if the start method is 'Push button start from hibernation'.

Record readings continuously, overwrite oldest when memory full

(mandatory¹)

When you select this option, the recorder initially fills the complete memory with readings, then overwrites the oldest data when the memory is full.

Record readings so that:

(mandatory)

If this is selected, the recorder stops logging taking after a pre-determined number of readings. The following two fields determine the time these recordings will cover.

Please note that some LogTag[®] recorder models can be stopped manually, so there may be fewer than expected readings.

Readings recorded will span at least X days

(mandatory²)

If you know how many days of data you want to record, enter this number here. The shortest possible recording interval that covers this period will be automatically calculated, based on how frequently the recorder takes a reading.

Number of readings to record (maximum is Y)

(mandatory)

This field will display the calculated number of readings if you select a time period and an interval. Alternatively, you can select the number of readings desired, and the time period will be calculated based on the interval. Y represents the maximum number of readings the LogTag[®] can store, however with a selected interval and a selected time span, you may not need to use all of the available memory.

Record a reading every X

(mandatory)

¹ You must select either continuous recording, or recording for a defined time span

² The entries are interdependent, changing log interval may change the number of days the recorder can take readings for

This determines how frequently the LogTag® records and stores humidity and/or temperature values. To change the number, use the up down and arrows. Highlight the seconds, minutes or hours value to change only those values. You can then also enter a value manually.

Begin recording after a delay of X

(optional)

Enter the time that passes after a user has pressed the START button on the LogTag® until the start of the recording. This feature is useful for example, when the LogTag® could falsely trigger an alert because the environmental conditions to be monitored are quite different to the environment in which it is started.

If pre-start logging is enabled, the LogTag® will still continue to record pre-start readings during this delay period.

Configuring Alerts

The LogTag® can display a visual alert if one or more of the configured alert trigger conditions have been met. Each alert trigger condition consists of a threshold value, an activation type (which can be instant, consecutive or accumulative³) and a delay time, if it is not an instant alarm.

If an alert trigger condition requires readings to exceed an upper threshold temperature it is called an **upper alert**. If an alert trigger condition requires readings to go below lower thresholds it is called a **lower alert**.

The threshold parameters are shown in LogTag® Xpress when the LogTag®'s readings are downloaded and displayed.

Alert related configuration parameters are entered in the bottom section of the Parameter Pane:

3

- Instant = one temperature reading is above (below) the threshold
- Consecutive = temperature readings are above (below) the threshold for the time defined in the activation delay without interruption
- Accumulative = temperature readings are above (below) the threshold for the total time defined in the activation delay time, but may not necessarily be sequential.

The screenshot shows the configuration interface for a LogTag recorder. At the top, there is a 'Value slider' for setting temperature thresholds. Below it, there are two main sections: 'Temperature Alarm Settings' and 'Humidity Alarm Settings'. The 'Temperature Alarm Settings' section is currently active. It contains the following options:

- ☒ Enable the OK (Green) indicator
- ☒ Enable the Alert (Red) indicator, when:
 - Readings below: -20.0 or above: 50.0 °C
 - After: 2 consecutive alert readings (None)
 - After: 2 alert readings have occurred (None)
- ☐ Leave alert indicator enabled even if readings return to non-alert range
- ☐ Clear and reset alert when START MARK button pressed

At the bottom, there are three tabs: 'Temperature Tab', 'Humidity Tab', and 'Parameter Entry'.

Here you will find one or more tabs, depending on the recorder model you wish to configure. Switch tabs by clicking on the tab's label.

HAXO-8 recorders for example show two tabs, one for temperature alert conditions, one for humidity. Note that some values apply to both tabs simultaneously, such as the OK indicator field.

Standard Alert Related Configuration Parameters

Enable the OK (Green) indicator

This determines whether or not the green LED should blink while the LogTag® is recording.

Enable the Alert (Red) indicator when...

This defines whether or not the red light should activate when an alert condition has been detected. An alert occurs when one or more of the conditions described below have been met. When an alert condition has occurred, this indicator will flash at a regular interval.

Readings below X or above Y (inclusive)

You can set the upper threshold limit and lower threshold limit by entering the appropriate information in the boxes, or by moving the value slider, or both. If readings stay inside the range specified by X and Y the alert indicator will not activate. If a reading of X and below, or Y and above is recorded, the alert indicator may light up, depending on the alert conditions.

The values entered in these boxes are included in the alert range. In the example later in this section 7 consecutive readings of 45°C will trigger an alert, whereas 7 consecutive readings of 44.9°C will not trigger an alert. Please set your alert values with this in mind.

Some recorder models allow you to enable upper and lower alerts independent of each other; this is useful in situations where one of the alert thresholds is irrelevant to your recordings and, if left activated, may falsely activate the alert LED. In this case there will be one check box for each alert, similar to this image:

After X consecutive alert readings (W minutes)

Tick this box, and enter a number into the adjacent field if you want to trigger an alert condition once X number of consecutive alert readings are recorded. Note that the number of minutes shown will depend on the number of alert readings you enter into the box AND the

recording interval already specified. For example, if X is 3 and two readings are above the upper threshold limit but the subsequent reading is below the upper threshold limit and still above the lower threshold limit then the alert indicator will not activate. Maximum value is 256, minimum is 2.

After X alert readings have occurred (W minutes)

Tick this box, and enter a number into the adjacent field if you want to trigger an alert condition once a total number of alert readings have been recorded, regardless of whether they are consecutive or not. Maximum value is 256, minimum is 2.

You can increase or decrease the values with the arrows next to the fields. Please note these are linked and certain combinations may not be allowed.

Leave alert indicator enabled even if readings return within alert range

If this option is enabled, the alert indicator will remain active, even if the current reading does not meet the alert conditions specified by the previous controls.

If this option is disabled then the alert indicator will remain active only if the current reading meets the alert conditions specified by the previous controls.

Please note, however, that this setting is only applicable if an immediate alert is configured; if consecutive or accumulative alert settings are configured this box has no effect, and the alert indicator will always remain visible once an alert has occurred.

Clear and reset alert when START MARK button pressed

If this feature is enabled, any user can turn off an active alert by pressing the LogTag®'s START MARK button. It will also reset the internal alert counters as if no alert condition had occurred at all while the LogTag® was recording.

Should the LogTag® subsequently detect a further alert condition, the alert will activate again.

Once the LogTag® has finished recording, pressing the START MARK button will not clear and reset any active alert.

If the LogTag® being configured does not support this feature, it will be disabled and its setting cannot be changed.

Example:

You wish to configure a LogTag® so alert conditions are indicated if 5 continuous readings are out-of-range or 7 total readings are out-of-range. Alert parameters should be set as follows:

The screenshot shows the LogTag configuration interface with the following settings:

- ☒ Enable the OK (Green) indicator
- ☒ Enable the Alert (Red) indicator, when:
 - Readings below 0.0 or above 45.0 °C
 - After ☐ 7 consecutive alert readings (35 Minutes)
 - After ☐ 10 alert readings have occurred (50 Minutes)
- ☒ Leave alert indicator enabled even if readings return to non-alert range
- ☐ Clear and reset alert when START MARK button pressed

This table shows how different conditions would result in the Alert Indicator flashing or not:

Table 5: Alert examples

What the LogTag® recorded	What the LogTag® indicated
2 readings out-of-range, return to normal, 2 readings out-of-range, return to normal, 2 readings out-of-range, return to normal	<p>Neither alert condition is met.</p> <p>The maximum number of consecutive out-of-spec readings is only 2 (5 required.)</p> <p>The total out-of-range events equals $2 + 2 + 2 = 6$. The alert condition is 7 total, so the alert does not go off.</p> <p>No Flashing Red Alert Indicator</p>
4 readings out-of-range, return to normal, 4 readings out-of-range	<p>The first alert condition is not met, as the the maximum number of consecutive alert condition readings is only 4 (5 required.)</p> <p>The second alert condition however IS met since the total alert condition readings equals $4 + 4 = 8$. The alert condition is 7 total. so the alert DOES go off.</p> <p>Flashing Red Alert Indicator</p>
4 readings out-of-range, return to normal, 2 readings out-of-range	<p>Neither alert condition is met.</p> <p>The maximum number of consecutive alert condition readings is only 4 (5 required.)</p> <p>The total number of alert condition readings equals $4 + 2 = 6$. The alert condition is 7 total, so the alert does not go off.</p> <p>No Flashing Red Alert Indicator</p>
6 readings out-of-range, return to normal	<p>The second alert condition is not met, as the total out-of-range events equals 6 (7 required.)</p> <p>The maximum number of consecutive alert condition readings however is 6, the alert condition is 5 consecutive readings, so the alert DOES go off.</p> <p>Flashing Red Alert Indicator</p>

Please note following special conditions:

1. If you wish an alert to be indicated on the first reading that is recorded out-of-spec, place a tick in the box next to "Enable the Alert (Red) indicator when" and remove the ticks in both boxes next to the "After X consecutive alert readings" and "After X alert readings have occurred".
2. You can not enter a number into the "After X consecutive alert readings" field which is larger than the number in "After X alert readings have occurred", since the latter alert condition would always be met first.
3. Similarly, you can not enter a number into the "After X alert readings have occurred" field which is smaller than the number in "After X consecutive alert readings". The software will adjust field values as appropriate.

Advanced Alert Settings

Some recorders support more detailed alert settings than described before. If LogTag® Xpress encounters one of these recorders, additional tabs are visible:

Temperature Alarm Settings | **Advanced Alarm Settings**

In the advanced settings the red alert indicator can now be configured independently for upper and lower alert values.

Readings above X

Readings below Y

(inclusive)

In addition to entering the threshold levels, tick the boxes next to "Readings above" or "Readings below" to enable the alert conditions for only the upper or only the lower threshold settings, or for both. If both boxes are ticked, the behaviour is the same as for the standard alert settings.

After X consecutive alert readings (W minutes)

Readings above

Readings below

Tick the boxes next to "Readings above" or "Readings below" to establish whether only readings above and including the upper threshold or only readings below and including the lower threshold should count towards the consecutive alert readings. If both boxes are ticked, the behaviour is the same as for the standard alert settings. If the Alert Indicator is disabled for either the upper or the lower alert, the respective box for the consecutive alert is grayed out and cannot be ticked.

After X alert readings have occurred (W minutes)

Readings above

Readings below

Tick the boxes next to "Readings above" or "Readings below" to establish whether only readings above and including the upper threshold or only readings below and including the lower threshold should count towards the total number of alert readings. If both boxes are ticked, the behaviour is the same as for the standard alert settings. If the Alert Indicator is disabled for either the upper or the lower alert, the respective box for the alert total is grayed out and cannot be ticked.

The advanced settings tab is displayed automatically if an advanced configuration is already found in the recorder to be configured. If you do not wish to use the advanced settings, click the [Temperature Alarm Settings](#) tab.

Example:

You wish to configure a LogTag® so an alert is displayed if 5 continuous readings are out-of-range or 7 total readings are out-of-range, but only if the temperature goes to 20°C and above. You wish to see in LogTag® Xpress if the product has gone to 0°C and below, but you do not wish to trigger an alert for this condition. Alert parameters should be set as follows:

Figure 21: Advanced Alert Settings - Sample settings

The following table shows how different conditions would result in the Alert Indicator flashing or not:

Table 6: Advanced alert examples

What the LogTag [®] recorded	What the LogTag [®] indicated
2 readings of 20°C or above, return to normal, 8 readings at 0°C or below, return to normal, 4 readings of 20°C or above, return to normal	<p>Neither alert condition is met.</p> <p>The maximum number of consecutive out-of-spec readings is only 2 (5 required, the 8 readings below 0°C do not count towards alert readings).</p> <p>The total out-of-range events equals $2 + 4 = 6$. The alert condition is 7 total, so the alert does not go off, as again the 8 readings below 0°C do not count towards alert readings.</p> <p>No Flashing Red Alert Indicator</p>
4 readings of 20°C or above, return to normal, 4 readings of 20°C or above	<p>The first alert condition is not met, as the the maximum number of consecutive out-of-spec readings is only 4 (5 required.)</p> <p>The second alert condition however IS met since the total out-of-range events equals $4 + 4 = 8$. The alert condition is 7 total. so the alert DOES go off.</p> <p>Flashing Red Alert Indicator</p>

Separate alert conditions are useful if you expect the monitored product to encounter temperatures lower than the lowest possible alert temperature. In this case a flashing alert indicator may not necessarily indicate an unfavourable condition was encountered. In programs where such conditions are monitored the lower alert should be turned off.

Display Recorder Advanced Settings

TRID30-7, TRED30-7 and TRED30-16R recorders have different configuration tabs:

Alarm settings

The Alarm settings are similar to the [Advanced Alert Settings](#), hence they are not explained again here. There is however one notable exception; for each range (above or below) you can only select either accumulative or consecutive readings, but not a combination of both. This

does give you the option to select a different number of cumulative readings for above and below ranges.

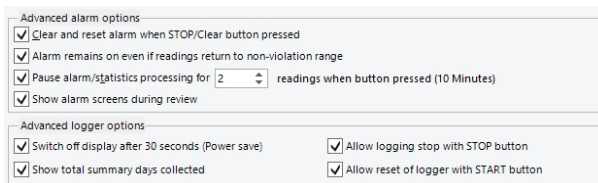
Audible Alarm (if available)

When you select this option, the recorder will sound an audible alarm, if a visual alarm is triggered. This option is currently only available in TRED30-16R recorders. Please refer to the Product User Guide or Data Sheet of your specific model to establish, if it has a beeper fitted.

Please note, that continual activation of the audible alarm will reduce the working life of the battery. When an alarm event is triggered, the alarm should be cleared as soon as possible. Please refer to the TRED30-16R Product User Guide for more information.

Display Temperature In

Select if you wish to show the temperatures on the display in Fahrenheit or in Celsius. This setting does not influence how temperatures are displayed on screen when viewing data in LogTag® Xpress. For USB Display Recorders this is located in the [File Settings](#) tab, as it influences both the



The screenshot shows a settings menu with two sections: 'Advanced alarm options' and 'Advanced logger options'. In the alarm section, four options are checked: 'Clear and reset alarm when STOP/Clear button pressed', 'Alarm remains on even if readings return to non-violation range', 'Pause alarm/statistics processing for 2 readings when button pressed (10 Minutes)', and 'Show alarm screens during review'. In the logger section, four options are checked: 'Switch off display after 30 seconds (Power save)', 'Allow logging stop with STOP button', 'Show total summary days collected', and 'Allow reset of logger with START button'.

Figure 22: Advanced alert options for display recorders

Clear and reset alarm when STOP/CLEAR button pressed

If this option is enabled, any user can turn off an active alarm directly on the LogTag® by pressing the STOP/CLEAR button. This will turn off the alarm symbol and reset the internal counters as if no alarm had occurred while the LogTag® was recording. When the LogTag® subsequently registers a further alarm condition, the alarm will activate again. Once the LogTag® has finished recording, pressing the **STOP/Clear** button will not clear and reset any active alarm.

An alarm will always be registered in the day summary and cannot be cleared, regardless of whether the alarm symbol was cleared or not.

Alarm remains on even if readings return to non-violation range

If this option is enabled then the alarm symbol will stay on, even if the current reading does not meet the alarm conditions specified by the previous controls.

If this option is disabled then the alarm symbol will stay on only if the current reading meets the alarm conditions specified by the previous controls.

Please note: Unlike for units without a display these settings also apply if consecutive or accumulative alert settings are configured. If the Alarm conditions are no longer met, all counters are re-set and an alarm is triggered when the alarm condition is met again. In any case, an alarm will be registered in the day summary, regardless whether conditions re-set or not.

Pause alarm/statistics processing for X readings

If this option is enabled, pressing either button on the LogTag® while recording excludes the next reading from the alarm and statistics calculations; PAUSED will now be shown on the display. This allows the user to review the statistics or clear an alarm without causing an invalid reading, alarm or statistic.

Switch off display after 30 seconds

If this option is enabled, the display will turn off after 30 seconds to save battery power.

Allow logging stop with STOP button

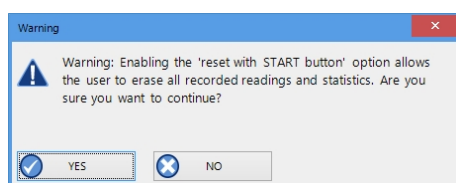
If this option is enabled, the LogTag® can be stopped by pressing the **STOP** button. The recorder will no longer take any readings, however you can still review the day statistics and download the logged results to a PC with LogTag® Xpress.

Allow reset of logger with START button

If this option is enabled, TRID30-7, TRED30-7 and TRED30-16R recorders can be re-activated and used again for a new trip by pressing the **START** button.

When re-activating the recorder, all previously recorded readings and statistics will be erased!

When this option is enabled, a warning box will be displayed to remind you this is enabled and can result in loss of data.



Show total summary days collected

If this option is enabled, the LogTag® shows the number of days for which statistics have already been collected on the display.

Please refer to the LogTag® Product Specification & User Guide documents for TRID30-7, TRED30-7 and TRED30-16R recorders on the LogTag® Recorders LTD website at <http://www.logtagrecorders.com/products.html> for a detailed description of the functionality of these products.

Note: When referring to TRID30-7 and TRED30-7 products, versions with both the fixed (F-suffix) and replaceable (R-suffix) battery are included, unless a suffix is specifically mentioned.

Show alarm screens during review

This option only applies to the UTRID-16. If selected, up to 6 additional screens are shown when reviewing the data on the display. These screens show the temperature alarm threshold, and the time above or below that threshold. If the box is cleared, only the minimum and maximum screens are shown.

For more information please refer to the UTRID-16 PDF Recorder User Guide, available from the LogTag® Recorders LTD website.

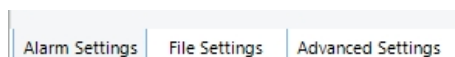
Advanced USB Recorder Settings

LogTag® Xpress allows you to set additional options for USB recorders, which decide...

- which type of files are generated at the end of the trip
- settings for time, temperature units, MKT parameters and
- how the individual elements of the generated PDF file will be displayed.

The appearance of the PDF file can only be defined during configuration of the recorder. It is not possible to alter the appearance once the USB recorder has completed its trip.

Additional tabs are displayed:



File settings

Figure 23: File Settings tab for USB recorders

Generate Data List

The PDF file always contains a one page overview report. Please refer to the individual USB Product guides for information about the contents of the report.

Select this check box to show additional data list pages with a single row for each reading, along with the with date, time and temperature values, plus any special events that were recorded against this reading.

When you clear this box only the report summary page will be created.

Show upper alarm line

Show lower alarm line

Select which alarm line will be displayed on the PDF. Clear the boxes if you don't wish to see the alarm lines.

The chart will not automatically zoom to include the alarm lines, if they lie outside the selected Y-axis scale. If you wish to always see the alarm lines, set a custom range Y-axis zoom which includes the alarm values.

Show Y-axis grid lines

Show X-axis grid lines

Select which grid line will be displayed on the PDF. Clear the boxes if you don't wish to see the grid lines.

The position of the grid lines is automatically determined; it depends on the Y-axis settings and the time span covered by the readings.

Show Mean Kinetic Temperature (MKT)

Selecting this box calculates and displays the MKT value on the PDF report. If selected, you can accept the suggested default value of the Activation Energy of 83.144 KJ/mol, or type a custom ΔH value in the text entry field. This value is then used for the MKT calculations. Typical values range from 60.000 to 100.000 KJ/mol.

Prioritise Download over File Generation

When enabled, the recorder attempts communication with LogTag[®] Xpress before generating on-board files.

Files to generate

Select either check box if you want the USB recorder to automatically create the corresponding file type every time it is plugged into a USB port. The files are then accessible on a read-only drive or mounted device via your file system.

The files created by the USB recorder 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.

If you clear all check boxes, no files will be generated and you will need to access the data with LogTag[®] Xpress.

Date format

Select one of the options that corresponds to the date format you wish to use for the PDF report. You can choose between DD/MM/YY and MM/DD/YY formats.

Time format

Select one of the options that corresponds to the time format you wish to use for the PDF report. You can choose between 24 hour and 12 hour (am/pm) formats.

PDF Temperature units

Select the temperature units used on the PDF report and in the CSV file from the drop down list. For UTRID-16 recorders this also determines the unit shown on display. It is not possible to configure different units for PDF and Display.

PDF Time Zone

You can clear the [Use local PC Time Zone](#) box and choose a different time zone. This is useful if you ship to receivers in a different time zone and you wish them to see the times in their local time.

If you choose your own time zone settings you will need to adjust the time zone for daylight saving yourself. For example, if you want the PDF data to show the correct time for a user in New York, set the time zone to UTC - 5 during Standard Time and to UTC - 4 during Daylight Saving.

The time zone displayed in the PDF cannot be adjusted by the receiver! To view the recorder's data in other time zones the receiver will need to download it with LogTag® Analyzer and adjust the displayed time zone.

Use local PC Time Zone

When selected, the PDF file will display times and dates in your local PC's time zone. The time is automatically adjusted for daylight saving.

Y-axis scaling

Select one of the options that corresponds to the scaling you wish to use for the chart with the recorded readings.

- [Range of readings](#); this scales the chart so the maximum and minimum temperature displayed is just above/below the highest/lowest recorded temperature reading. If you choose this option the maximum screen area is used to display all recorded readings.
- [Range of sensor](#); this scales the chart to show the full temperature measurement range of the recorder.
- [Custom range](#): When you select this option, the entry fields for the two temperature values become active. Enter the values you wish to use as maximum and minimum values for the chart's y-axis.

If readings outside your selected custom range are recorded during the trip, the scaling is adjusted so the chart always displays all recorded readings.

Multi-Alarms in USB Recorders

Some USB recorders can be configured for up to 6 different alarm trigger conditions, depending on the model.

These new models can be configured for up to 6 different alarm trigger conditions. Depending on the model, different combinations of upper and lower alarms are available.

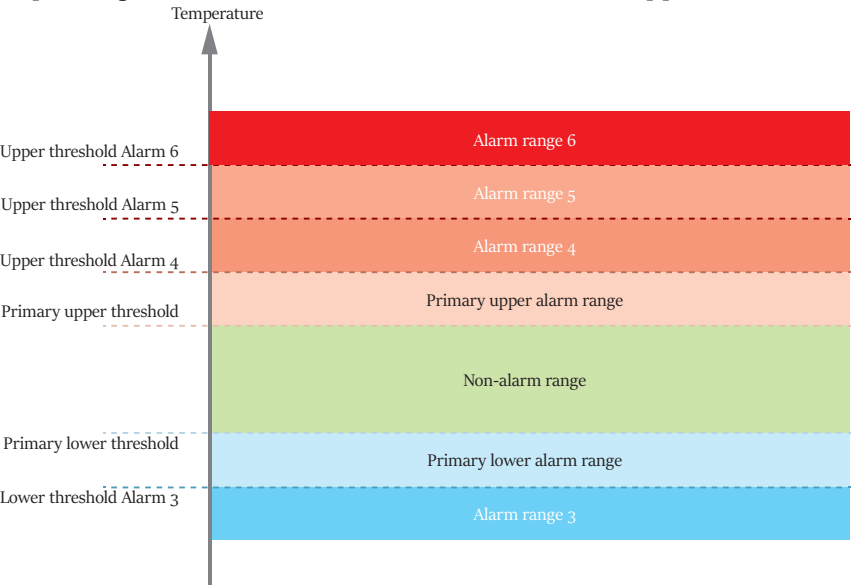


Figure 24: Example Alarm ranges for USRIC-8M

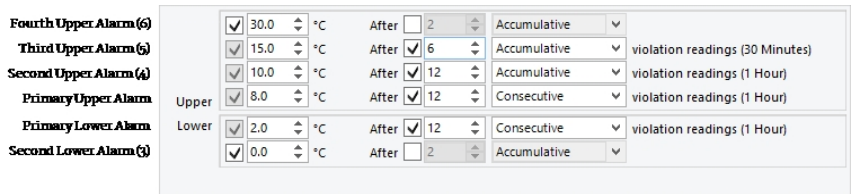


Figure 25: Representation in LogTag® Xpress

- USRIC-4, USRIC-8 and UTRIX-16 have a single primary upper and a single primary lower alarm.
- All models have a single primary upper and a single primary lower alarm, just as USRIC-4, USRIC-8 and UTRIX-16.
- USRIC-8M and UTRIX-16M allow four freely configurable alarms in addition to the primary upper and lower alarms.
- UTRID-16 allows a total of three upper and three lower alarms.

Activate each threshold separately. For each threshold value you can set a temperature value, an alarm delay value and an alarm delay type.

You need to observe some basic rules when entering alarm conditions into the Advanced Alarm Configuration Screen in LogTag® Xpress:

- A primary upper alarm must be entered before more upper alarms can be entered.
- A primary lower alarm must be entered before more lower alarms can be entered.
- Any additional upper alarms must have higher threshold values than any previously entered alarm.
- Any additional lower alarms must have lower threshold values than any previously entered alarm.
- You can enter a different number of upper and lower conditions, or only upper, or only lower conditions, or none at all. You can, however, not make all 6 alarms upper alarms, and you cannot make all 6 alarms lower alarms either.
- Threshold values for adjacent alarms can be equal when combined with different alarm types and delay time values. For example, you can enter a primary upper alarm with an 8°C threshold and 10 accumulative readings, plus an alarm with an 8°C threshold and 5 consecutive readings. In this instance the alarm will be triggered, if either 10 readings in total are above 8°C, or 5 consecutive readings above 8°C have occurred.
- A temperature value can contribute to multiple alarm triggers. In the above example, a value of 18°C would be recorded against the 'above 8°C' alarm as well as against the 'above 15°C' alarm.

Any alarm condition that is enabled will be used to indicate an alert on the recorder (via the Alert LED or the LCD), and will also be shown on the PDF and in the software.

For the UTRID-16 a slightly different screen is shown. Here, the alarm symbols that appear on the LCD are depicted next to the entries in the software. The rules above are the same with one notable addition, that a maximum of three upper and three lower alarm conditions can be entered.

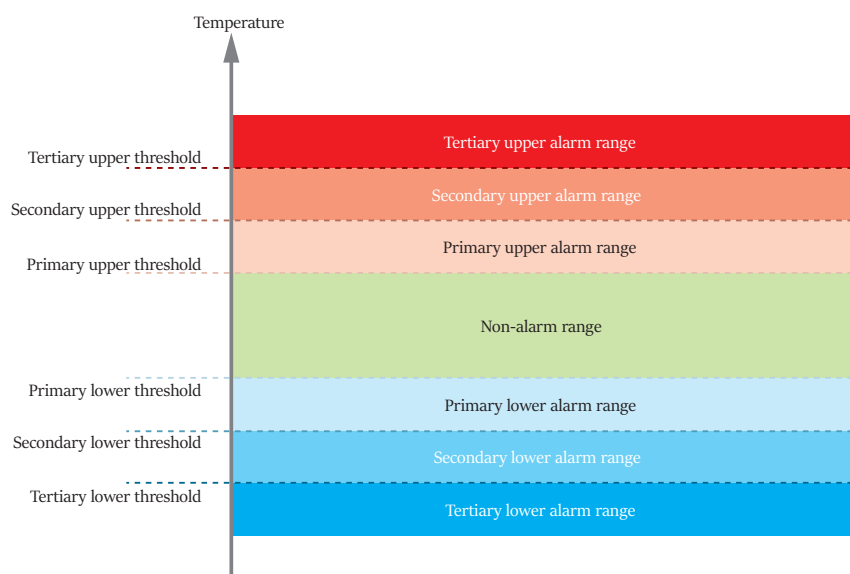


Figure 26: Example Alarm ranges for UTRID-16

Tertiary Upper Alarm	▲▲	<input checked="" type="checkbox"/>	15.0	°C	After	<input type="checkbox"/>	2	Accumulative	
Secondary Upper Alarm	▲▲	<input checked="" type="checkbox"/>	10.0	°C	After	<input checked="" type="checkbox"/>	12	Accumulative	violation readings (1 Hour)
Primary Upper Alarm	▲	<input checked="" type="checkbox"/>	8.0	°C	After	<input checked="" type="checkbox"/>	12	Consecutive	violation readings (1 Hour)
Primary Lower Alarm	▼▼	<input checked="" type="checkbox"/>	2.0	°C	After	<input checked="" type="checkbox"/>	12	Consecutive	violation readings (1 Hour)
Secondary Lower Alarm	▼▼	<input checked="" type="checkbox"/>	0.0	°C	After	<input checked="" type="checkbox"/>	12	Accumulative	violation readings (1 Hour)
Tertiary Lower Alarm	▼▼	<input checked="" type="checkbox"/>	-0.5	°C	After	<input type="checkbox"/>	2	Accumulative	

Figure 27: Representation for UTRID-16

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