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LogTag Recorders



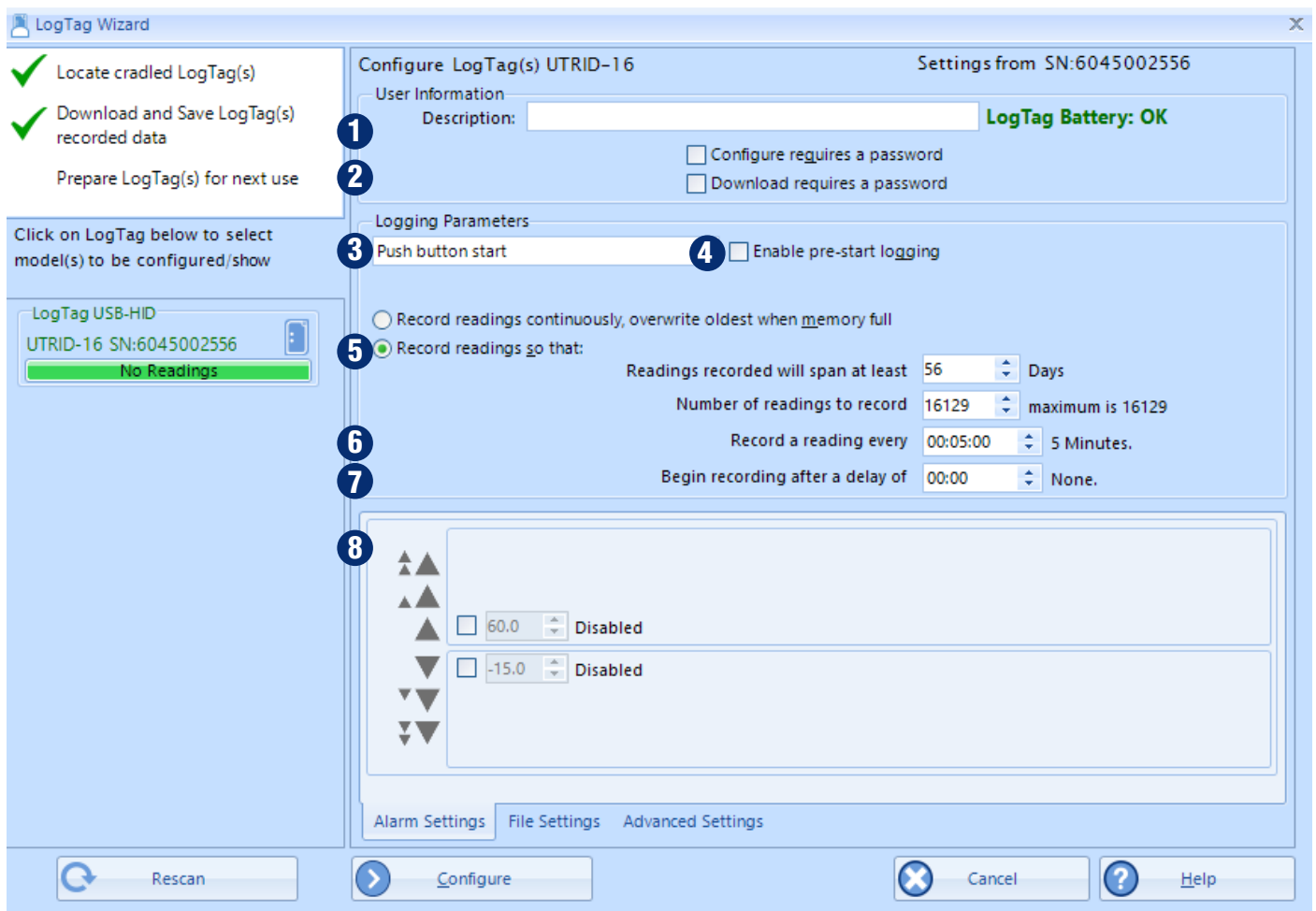
Quick Start Guide UTRID-16

1. SETUP AND CONFIGURATION

Download and install LogTag Analyzer from our website:
www.logtagrecorders.com/software

Connect the Logger to your computer. We recommend to use an USB extension cable or USB hub.

Start LogTag Analyzer. In order to start using your Logger, you need to configure it via the 'LogTag Wizard'. This can be accessed by pressing 'F2' on your keyboard or by clicking the 'Wizard' icon.



- 1. Description:** Enter details to identify your Logger. E.g. refrigerator 3. Also the status of your battery is indicated here.
- 2. Password:** You have the option to specify a password, which needs to be entered the next time someone configures the Logger or when the results will be downloaded.
- 3. Push button start or date/time start:** You can start your Logger by pushing the start button or automate the start by selecting a date/time when the Logger should start recording.
- 4. Enable pre-start logging:** When you select this option the Logger will start recording immediately after configuration. This is useful in case the user forgets to start the Logger.
- 5. Record readings so that...:** Specify how long you wish to record for.

6. **Record a reading every...:** Choose the duration between each reading.
7. **Begin recording after a delay of:** Enter a start delay if required. A start delay commences upon pressing the start button. This allows the Logger to reach the right temperature before recording starts. This option won't be available with a date/time start.
8. **Setting upper / lower alarm:** LogTag Analyzer allows up to 6 different alarm trigger conditions. You can enter a different number of upper and lower conditions, or only upper, only lower conditions or none at all.



2. STARTING THE LOGGER

If the Logger has been configured with a Date/Time start, it will start automatically at the configured time. For the push-button start, when the display shows '**READY**', press and hold the '**START/MARK**' button.

Continue to hold while '**REC**' flashes on the display and release the button when the flashing stops.

The Logger will now display the delayed start time remaining (if configured). Once recording, the word '**REC**' will be shown on the display.

During recording, the display shows the temperature of the last reading taken and the current time. A tick symbol is shown as long as no alarm event has occurred.

A reading is taken and the display updated every logging interval as configured in LogTag Analyzer. When you press the button, the next reading taken by the logger will be identified in the downloaded data with an inspection mark.

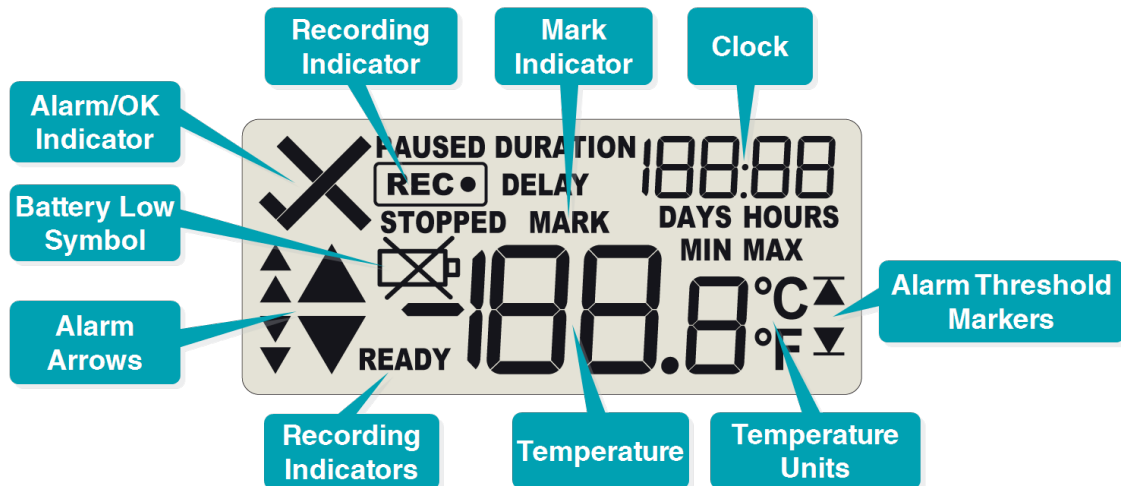


3. DOWNLOAD / RESULTS

1. Open LogTag Analyzer.
2. Connect the Logger to your computer via USB extension cable or USB hub.
3. After a few seconds, the downloaded data will appear. Data can be displayed in Chart-, Data-, Summary- or Day Summary formats by clicking the tabs at the bottom of the chart dialog. Data can also be saved in a number of formats including TXT, PDF, HTML and CSV for import.

4. ADDITIONAL INFORMATION

Display overview



Recording display

During normal operation the display shows the most recently recorded temperature. The current time is also displayed in 24 hours. A tick symbol '✓' is shown as long as no alarm event has occurred. If the most recently recorded temperature is above or below one of the alarm thresholds, one or more alarm markers will be shown on the display.

In this example, the most recently recorded temperature is above the primary high alarm threshold, but below a secondary threshold; an alarm event has not been triggered.



Here, the temperature was below the secondary alarm threshold, but above the tertiary threshold; an alarm event has not been triggered.



If an alarm event occurred, the alarm indicator 'X' is displayed in the upper left corner of the display. Additionally, one of the alarm limit markers (arrow pointing up or down with line) is displayed, to show if the event was an upper or lower alarm.



Clearing an alarm

To clear an alarm from the display, press and hold the 'START/MARK' button. The 'X' and alarm limit markers will start to flash. When they stop flashing (after approx. 4 seconds), release the button and the alarm will be cleared.

Stopping the Logger

If enabled, you can stop the Logger; press and hold the 'STOP/REVIEW' button. Continue to hold while 'STOPPED' flashes on the display; release the button when the flashing stops.



The option to stop the Logger can be disabled during configuration, see advanced options in LogTag Analyzer.

Reviewing alarms

At any time you can review the recorded statistics by briefly pressing the **'STOP/REVIEW'** button. After each press of the button the next review screen is shown. The number of screens available for review depends on the number of configured alarms, and whether or not the alarm review screens have been enabled.

If no alarms are configured, or the alarm review screens are disabled, only the **'MIN'** and **'MAX'** screens appear. You can terminate the review at any time by pressing the **'START/MARK'** button, or by waiting 30 seconds without pressing any buttons. In the example, following alarm setting are used:

▲▲	<input checked="" type="checkbox"/>	15.0 °C	After	<input type="checkbox"/>	2	Accumulative	
▲▲	<input checked="" type="checkbox"/>	10.0 °C	After	<input checked="" type="checkbox"/>	2	Accumulative	violation readings (10 Minutes)
▲	<input checked="" type="checkbox"/>	8.0 °C	After	<input checked="" type="checkbox"/>	12	Consecutive	violation readings (1 Hour)
▼	<input checked="" type="checkbox"/>	2.0 °C	After	<input checked="" type="checkbox"/>	12	Consecutive	violation readings (1 Hour)
▼▼	<input checked="" type="checkbox"/>	0.0 °C	After	<input checked="" type="checkbox"/>	12	Accumulative	violation readings (1 Hour)
▼▼	<input checked="" type="checkbox"/>	-0.5 °C	After	<input type="checkbox"/>	2	Accumulative	

On first press of the **'STOP/REVIEW'** button the maximum reading screen appears. No alarm is shown as it didn't go above or below one of the alarm thresholds. Here, the maximum was above the primary threshold.

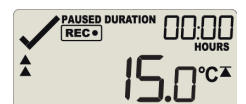


When you press the **'STOP/REVIEW'** button again, the minimum reading screen appears. No alarm is shown as it didn't go above or below one of the alarm thresholds. Here, the minimum was below the tertiary threshold.



If the alarm review screens are enabled, the next screens show the enabled alarm threshold values in descending order, starting with the upper most alarm threshold.

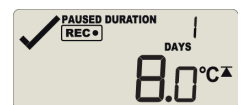
In this example the tertiary upper alarm is enabled, indicated by the alarm threshold marker shown in combination with the two small alarm arrows. The **'DURATION'** symbol is shown, and the clock shows the total number of hours and minutes above the threshold, instead of the time.



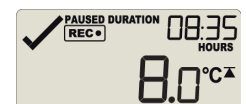
The secondary upper alarm is shown next, indicated by the alarm threshold marker shown in combination with an alarm limit marker. As with the previous alarm, the threshold wasn't exceeded.



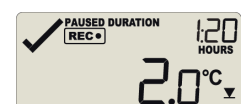
The primary upper alarm is shown next, indicated by the alarm threshold marker shown without any small alarm arrows.



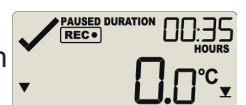
In this example, the temperature was above 8 degrees for 1 day, 8 hours and 35 minutes. If the duration is longer than 24 hours, the display will alternate between showing days and hours.



The primary lower alarm is shown next, indicated by the alarm threshold marker shown without any small arrows. In this example, the temperature was lower than the primary threshold for 1 hour and 20 minutes.



The secondary lower alarm is shown next, indicated by the alarm threshold marker shown without one small alarm arrow. In this example, the temperature was lower than the secondary threshold for 35 minutes.



The tertiary lower alarm is shown next, indicated by the alarm threshold marker shown with two small alarm arrows. In this example, the temperature was not lower than the tertiary threshold.



BATTERY REPLACEMENT

The battery of your Logger can be replaced. The Loggers use a commonly available battery (CR2032). To safeguard your data we recommend you use a reputable, branded battery. The battery status can be found in the configuration screen. If you would like to know more about the battery life of your Logger, please visit our website / knowledge base.

HIBERNATION

To prolong the life of your Logger you can hibernate your Logger between trips when it is not being used for extended periods. Loggers can be hibernated via LogTag Analyzer by selecting 'Hibernate' from the LogTag menu. When hibernated, all logging functions are suspended, all indicators are turned off and internal components are switched to low power. This reduces the current consumption on Loggers to very low levels.

Check our website for more information about the hibernation setting.

CALIBRATION

In order to calibrate your Logger, you need to use our LogTag Calibrate software. LogTag Recorders releases our LogTag Calibrate software only to selected users who have suitable equipment and credentials relating to standard practices of temperature and/or humidity calibration.

If you require calibration of your Logger(s), please contact your local supplier.

WATER DAMAGE

Please remember that none of the Loggers can be immersed into liquids. For more specific information, check your user guide for the IP rating.

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