

TEMPERATURE LOGGER TRED30-16R QUICK START GUIDE

WHAT HARDWARE DO YOU NEED?

- LogTag® TRED30-16R Temperature Logger.
- External Probe (ST100X-XX).
- LogTag® LTI/USB Interface Cradle.
- PC running Windows 7 or later, or Windows 2008 Server or later.

WHAT ABOUT SOFTWARE?

LogTag Analyzer software is available for download from LogTag Recorders website.

- Go to http://www.logtagrecorders.com/software. After registering you can download the software.
- Once the installation is complete, a new icon will appear on your desktop.

INSTALLING THE INTERFACE CRADLE

- Plug the Interface Cradle into a USB port.
- · USB drivers will install automatically. Your operating system will inform you when installation is complete.

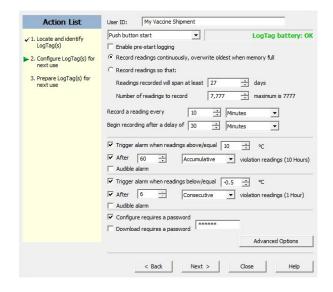


CONFIGURING THE TRED30-16R

The Logger must be configured before you can take readings.

- Start the LogTag Analyzer software.
- · Insert the Logger into the Interface Cradle with the blue label to the front. You will hear a click as the contacts engage. There is no need to remove the Probe.
- The screen will show 'A new LogTag has been detected... Please wait...'.
- If a Logger has been used previously, a chart will appear.
- Select 'LogTag Wizard' to bring up the configuration wizard. The 'Welcome and general instructions' will be displayed.
- · Click on 'Next'; LogTag Analyzer will scan for a recorder, once found the configuration options will be displayed.





CONFIGURATION OPTIONS

- User ID user can enter details about each Logger.
- · Select 'Push button start' or 'Date/Time start' depending on requirements.
- Enter the start Date and Time if selected.
- Tick 'Enable pre-start logging'. Enabling this function causes the Logger to start taking readings immediately after configuration (useful in case the user forgets to press the Start button).

Push button start

Enable pre-start logging

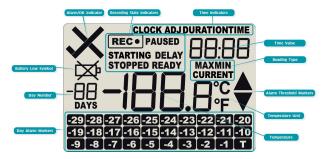
- Select recording mode Continuously (overwrites old readings when memory is full) or Reading for a specific time (note that changing the recording interval automatically re-calculates the recording duration).
- Enter a start delay if required (allows the Logger to stabilise before recording starts).
- Set a upper temperature alert value and tick 'Trigger alarm' if you require a visual upper 'ALARM' to show on the Loggers display once triggered.
- Set a lower temperature alert value and tick 'Trigger alarm' if you require a visual lower 'ALARM' to show on the Loggers display once triggered.
- You can also setup various trigger conditions for both the upper and lower alarms, single violation or a set of consecutive violation readings or a total of violation readings encountered (called accumulative).
- (Optional) Activate an audible alarm to Configure requires a password provide extra feedback when an alarm event Download requires a password has been registered.
- · If you wish to control future configuration of this Logger enable 'Configure requires a password' and enter a password. You can also control future downloads; enable 'Download requires a password'. Advanced Options NOTE: Passwords are case sensitive.
- Click 'Advanced options' to view and change the Loggers advanced features including the 'Pause' function, stopping and reactivation, clearing and preserving alarms, power save and temperature units displayed (°C or °F).
- If enabled, any button activity will prevent readings being processed for max/



min/duration statistics and alarm triggers for the configured paused duration. This allows the user to review current statistics or clear an alarm without causing a false alarm or statistic while handling the Logger.

- The Logger can display temperature in units of °C or °F, select the units you
- The option 'Switch off the display after 30 seconds (Power save)' will extend battery by automatically deactivating the display after 30 seconds of no button activity, button activity will temporarily reactivate the display.
- The Logger can be configured to allow the user to Stop and/or Re- activate the Logger, tick which options are required.
- Click 'OK' to exit the Advanced dialog, returning to Configuration Options.
- · Click 'Next' and the Logger will be configured.
- When configuration is complete remove the Logger from the Interface Cradle.
- If you wish to configure more Loggers with the same configuration profile, insert the next Logger into the Interface Cradle and click 'Again'. Repeat until all Logger are configured.

DISPLAY OVERVIEW



The temperature can be displayed in °C or °F.

Reading type: CURRENT = The temperature of the last reading taken = The maximum reading in a given 24hour period = The minimum reading in a given 24hour period.

Above/below limit markers:

Up arrow marker appears when the temperature displayed is above the upper alert limit. Down arrow marker appears when the temperature

X appears when an alarm is triggered The time (in HH:MM) can be current time, time remaining to

start of a delayed start or duration of a given max min value above or below the specified limits. The value displayed is indicated by the following:

- = displaying Current Time.= displaying DELAYED START time remaining. = displaying duration of a given MAX or MIN statistic above/below the limits on a given day.

Battery test is performed hourly

displayedwhen battery tested I OW

READY Ready to start recording.

State indicators:

Preparing to start recording. If a delayed start is configured then displays time remaining to start recording. RECORDING Recording.

PAUSED Max/Min statistics collection paused du to button press activity Recording has stopped

The display is organized with a table of 'day alarm indicators' segments named 'Today' to '-29d' which are switched on when a given day has an alarm trigger present

The day number of the currently selected day statistic is displayed when in review mode, TODAY is day 0, vesterday is day '-1'. Can be configured to display the total number of days collected while recording

STARTING THE LOGGER

If the Logger has been configured with a Date/Time start, it will start automatically.

Only when the display shows **READY** can the Logger be started manually. Press



and hold the START button. Continue to hold while **STARTING** flashes on the display; release the button when the flashing stops (after approx 5 seconds).

The Logger will now display the delayed start time remaining (if configured). This example shows a start delay of 30 minutes remaining.



At the end of the delayed start (if configured) the Logger will start collecting data and show the symbol [REG] on the display.

Paused function

If enabled, any button activity will suspend processing of readings and the Logger will display **PAUSED**. This allows the user to review the statistics or clear an alarm without causing an invalid reading, alarm or statistic.

SETTING THE DISPLAY CLOCK

LogTag Analyzer sets the Loggers internal real time clock to the configuration PC's time however the user can manually change the display clock if required. Press and hold the ◀ and ● buttons together continuously for 8 seconds. During this period the display will flash CLOCK ADJ. Release the buttons when the flashing stops to enter 'clock adjust' mode.



The minutes will flash. Press ◀ to increment the minutes and • to accept the minute changes and to start editing the hours. The hours will now flash, press • to increment the hours and

◀ to accept and store the new time. If recording is active a clock change event will be recorded with the next logged reading, which will be displayed in the downloaded data.

RECORDING DISPLAY

During recording, the display shows the temperature of the last reading taken, the current time, battery status and a combination of alarm status and history. A reading is taken and the display updated every logging interval as configured in LogTag Analyzer. Following are some examples:-



Here the display shows that alarm events occurred 7, 19, 20 and 25 days ago. The current temperature is over the upper limit (indicated by the 🛕) but has not been over for long enough to trigger an alarm.



13:49 20 minutes later the over temperature has triggered an alarm. The ★ symbol and the marker day alarm are shown.

The next day, the temperature has returned to the acceptable range but the alarm remains present.

The day summary has shifted by 1 day as the time has gone through midnight.

CLEARING AN ALARM

When an alarm event has occurred, the X symbol is displayed.

To clear the **X** symbol from the display, press and hold the Clear ● button until the **X** symbol stops flashing then immediately release.

Alarm events continue to be displayed in the history area of the display and can be reviewed with the day statistics.

Note: The option to clear and latch alarms can be disabled see advanced options in LogTag* Analyzer.

REVIEWING DAY STATISTICS

The Logger will display up to 30 days of max/min/duration and alarm statistics. If the Logger is configured to record longer than 30 days (or continuously) then the day statistics will contain up to the latest 30 days.

To review the day statistics press the Review ■ button. Each press of the button will step through the Max and Min temperatures for each day starting with today and moving backwards through the days (displayed day will flash).

Any button activity during recording will place an inspection mark in the next reading of logged data which will be displayed when the data is downloaded. Following are some examples:-



Pressing the Review ◀ button displays current days'

MAX statistic.The today segment flashes and DAY 00 is shown to indicate the 'Today' selection. The selected day (today) does not have any recordings outside the preset limits.

Pressing the Review ◀ button again displays the days' MIN statistic.

The MIN statistic is not below the limit and did not trigger an alarm.

Pressing the Review ◀ button again displays the next previous days' MAX statistic. There are recordings that are above the upper limit. The MAX statistic is above the upper limit (indicated by ▲) and the ALARM was triggered for a duration of 12 hours and 30 minutes.

Pressing the Review ◀ button again displays the days' MIN statistic.

The MIN statistic is not below the limit and did not trigger an alarm.

If less than 30 day's of recordings have been collected, the day marker only advances as far as there is data available. After the last day for which statistics have been collected is displayed, the next press of the ◀ button rolls the summary back to the statistic for today. Pressing the ◀ button at any time shows the normal recording display again.

STOPPING THE LOGGER

If enabled you can stop the Logger; press and hold the Stop ● button. Continue to hold while **STOPPED** flashes on the display; release the button when the flashing stops. The Logger will no longer take any readings, however you can still review the day statistics and download the logged results to a PC with LogTag* Analyzer.

Note: The option to stop the Logger can be disabled, see advanced options in LogTag* Analyzer.

RE-ACTIVATING THE LOGGER

If enabled, the Logger can be re-activated for re-use by either re- configuring using LogTag* Analyzer or using the Start ● button.

To re-activate using the Start ● button, press and hold the Start ● button observing the **READY** text flashing on the display; release the button when the flashing stops. The Logger will then be ready for a push button start. Data/time start is only possible by re-configuring with LogTag® Analyzer.

Re-activating the Logger will erase all previously recorded readings and statistics! Note: The option to re-activate the Logger can be disabled, see advanced options in LogTag* Analyzer.

BATTERY

The Logger contains a Lithium Battery. Dispose or recycle the battery in accordance to your local regulations. Do not expose to extreme temperatures.



The end of battery life is indicated by a low battery symbol, the Battery/ Logger should be replaced within 30 days when this symbol appears. The TRID30-16R has a replaceable CR2032 battery. Battery access sits behind the square white label on the back of the Loggers case. Contact your supplier or check the LogTag Recorders website for further details.

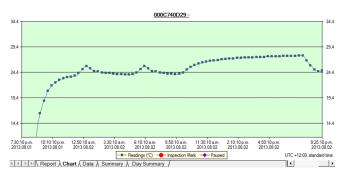
DOWNLOADING DATA

- Start LogTag® Analyzer software.
- Insert the Logger into the Interface Cradle.
- The screen will show 'A new LogTag has been detected..... Please wait.....'.
- After a few seconds, the downloaded data will appear (by default shown as a chart, see below).
- 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 into a spreadsheet program.

GETTING HELP

If after reading this guide you still need further information, please visit the LogTag Recorders website.

For support visit http://www.logtagrecorders.com/support.



Example of a Zoomed in chart within LogTag Analyzer.