

Tlog Series User Manual

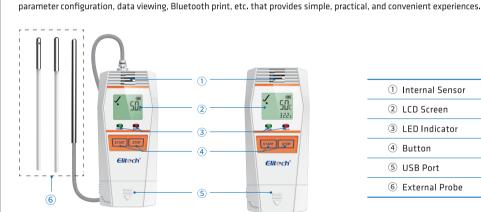
Reusable PDF Temperature (Humidity) Data Logger

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Overview

Tlog series data loggers are used to monitor and record the temperature (humidity) for foods, pharmaceuticals, and other products during their storage and transport, and in each stage of cold chain logistics, such as refrigerated containers/trucks, cooler bags, cooling cabinets, medical cabinets, freezers, and laboratories,

Tlog series features a USB port, LCD screen and two buttons designed to prevent accidental touches. You can view device status and parameters by button press, or customize various parameters, such as start/stop modes, multiple thresholds, storage modes, etc. You can also view automatically generated PDF report without using the ElitechLog software. Its Tlog B100 series are Bluetooth versions that allow operations without opening package via the Elitech app. Such as



(1) Internal Sensor ② LCD Screen ③ LED Indicator

④ Button

(5) USB Port

6 External Probe

USB Data Loggers

Model	Tlog 100	Tlog 100E	Tlog 100H	Tlog 100EH	Tlog 100EC	Tlog 100EL
Туре	Type Internal External Temperature Temperature		Internal Temperature and Humidity	External Temperature and Humidity	External Cryogenic	External Cryogenic
Measuring Range	-30°C~70°C	-40°C~85°C	-30°C~70°C 0%RH~100%RH	-40°C~85°C 0%RH~100%RH	-85°C~150°C	-196°C~150°C
Sensor	Digital Temp	erature Sensor	Digital Temperature	re and Humidity Sensor Platinum Resistan Temperature Sensor I		
Accuracy	Temperature: ±0.3°C (-20°C~40°C), ±0.5°C (-50°C~85°C), ±1°C (-100°C~150°C), ±2°C (others) Humidity: ±3%RH (25°C: 20%RH~80%RH), ±5%RH (others)					

Bluetooth Data Loggers

Model	Tlog B100	Tlog B100E	Tlog B100H Tlog B100EH		B100EH	
Туре	Internal Temperature	External Temperature	Internal Temperature and Humidity		External Temperature and Humidity	
Measuring Range	-30°C~70°C	-40°C~85°C	-30°C~70°C	0%RH~100%RH	-40°C~85°C	0%RH~100%RH
Sensor	Digital Temp	erature Sensor	Digital Temperature and Humidity Sensor			
Accuracy Temperature: ±0.3°C (-20°C~40°C), ±0.5°C (others) Humidity: ±3%RH (25°C: 20%RH~80%RH),±5%RH (others)						

Specifications

Resolution: Temperature: 0.1°C: Humidity: 0.1%RH

Memory: 32,000 points (max)

Logging Interval: 10s ~ 24h

Start Mode: Press button or use software

Stop Mode: Press button, use software, or auto stop

Alarm Threshold: Configurable; Temperature: up to 3 high limits and 2 low limits; Humidity: 1 high limit and 1 low limit

Alarm Type: Single, cumulative

Alarm Delay: 10s ~ 24h

Data Interface: USB, Bluetooth

Battery: CR2450 3.0V wide-temperature button cell

Battery Life: 2 years for storage and use; cumulatively 180 days at 10 mins logging interval and 25°C (Buletooth not on)

Protection Level: IP65

Dimensions: 115.5 x 47 x 16.2 mm (LxWxH)

Weight: Approx. 70g

Operation

1. Download & Install Software

Please download and install the free Elitechlog software (macOS and Windows) from Elitech US: www.elitechustore.com/nages/download or Elitech UK: www.elitechonline.co.uk/software or Elitech BR: www.elitechbrasil.com.br.

2. Configure Parameters

First, connect the data logger to the computer via USB cable, wait until the U icon shows on the LCD, then: Configure via ElitechLog software: If you do not need to change the default parameters (in Appendix), please click **Quick Reset** under Summary menu to synchronize local time before usage; If you need to change the parameters, please click the Parameter menu, enter your preferred parameters, and click Save Parameter button to complete the configuration.

Warning! For first time user or after battery replacement:

To avoid time or time zone errors, please make sure you click **Quick Reset** or **Save Parameter** before usage to configure your local time into the logger

3. Start Logging

Press Button:

Press and hold the left button for 5 seconds until the icon > shows on the LCD, indicating the logger starts logging.

Auto Start:

Immediate Start: The logger starts logging after plugged out from the computer.

Timed Start: The logger starts counting after removed from the computer, and will automatically start logging when the set date/time comes

Note: If the ▶ icon keeps flashing, it means the logger configured with start delay; it will start logging after the set delay time elapses.

Double click the left button to mark current temperature and time, up to 10 groups. After events marked, the LCD will display (Mark), currently marked groups and (SUC)

5. Stop Logging

Press Button*: Press and hold the right button for 5 seconds until the icon shows on the LCD, indicating the logger stops

Auto Stop: When the recorded points reach the maximum memory, the logger will stop automatically.

Use Software: Open ElitechLog software, click Summary menu, and Stop Logging button.

Note: *Stop via Press Button is the default. If set as disabled, this function will be invalid, please open ElitechLog software and click **Stop Logging** button to stop it.

6 Download Data

Connect the data logger to your computer via USB cable, wait until the icon U shows on the LCD, then download: Without software: A PDF report will generate automatically. Please find and open the removable storage device Tlog and save

Via ElitechLog software: The logger will auto-upload data to ElitechLog, then please click Export to select your desired file format to export. If data failed for auto-upload, please manually click **Download** and then repeat above operation.

To reuse a stopped logger, please connect it to the computer, and make sure you have saved or exported the data;

Next reconfigure the logger by repeating the operation in 2. Configure Parameters*. After finished, please follow 3. Start Logging to restart the logger for new logging.

Warning! *All previous logging data inside the logger will be deleted after re-configuration as to make space for the new logging. If you forgot to save/export data, please check and manage the logger in the History menu of ElitechLog software.

Simply press and hold the left button to quickly restart the stopped logger without any configuration.

Please backup data before Repeat Start, by repeating 6. Download Data . Without ElitechLog Software.

App Operation

1. Turn ON Bluetooth

Press and hold the left and right button for more than 5 seconds until both LED indicators flash and the icon 🕻 flashes on the top right of the LCD.

2. Install App

Use your mobile browser to scan the QR code below or find Elitech app (the App) on your App Store to download and install it, then register a new account and log in.



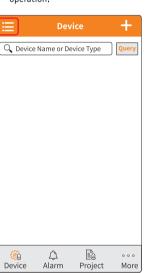


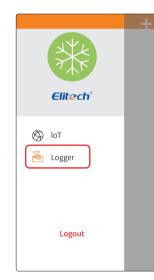




3. Configure Parameters

- (1) Click the icon **=** on the top left and select Data Logger.
- (2) Click the Start menu on the bottom left for parameter configuration, and then click Next on the top right for further



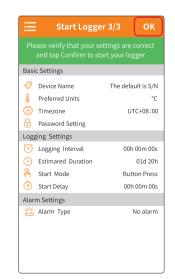




- (3) Press and release the right button of the logger, the app will highlight this logger. Click it to view details.
- (4) Confirm the parameters and click **OK** on top right to complete the configuration.







4. View Data

1) In **Nearby** menu page, click on the top right to refresh the device list. Press the right button of the logger;,the app will highlight and top this logger. Click the logger and select **Read data**.





2) After data is read, you may view it in the graph and detailed list. Click the icon on the top right to stop the logger that is logging. Under **Data** mend, click **Generate Report** to export your report in the desired format (PDF, Excel), click **Print** to print the report via the connected Bluetooth printer.



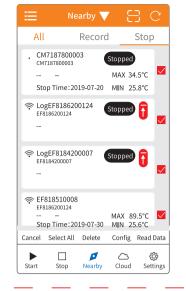




6. Bulk Operation

1) Switch to **Nearby** menu, click the sub menu **Record** or **Stopped**, and then click on the top right to refresh the device list.
2) Hold one logger in the list, and you may switch to multi-select status (IOS APP click on the top right). Check the loggers and then click **Delete**, **Configure** or **Read Data** to handle several loggers simultaneously.



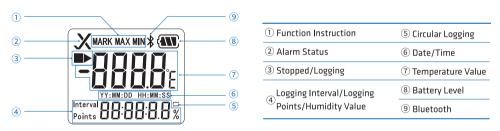


Status Indication

1. Buttons

Function	Operation	Indicator
Start logging	Press and hold the left button for 5 seconds	■ flashes 5 times
Stop logging	Press and hold the right button for 5 seconds	flashes 5 times
Mark events	Double click the left button	flash 3 times simultaneously
Open (close) Bluetooth	Press and hold the left and right buttons for 5 seconds	flash 5 times simultaneously
Check/Switch interfaces	Press and release the left button	(or) flashes once
Back to main menu	Press and release the right button	(or) flashes once

2. LCD Screen



5. Scan Bar Code for parameter configuration and data viewing

Switch to **Nearby** Menu, then click the icon on top right to scan the bar code at the back of the logger for a further operation (Configure, Read Data).





3. LCD Interface

1. Not started	3.8 8x	8. Current time	08:25:08
2. Timed (Delay) start	- 234 c 235800	9. Marked - Marked events	SUEE
3. Started	7 000 7 1 4 E 3 (8 x)	10. Marked events full	FULL
4. Logging points	MB 10000	11. Sensor error	Frr:
5. Maximum	✓ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	12. PDF generation progress	PdF 38x
6. Minimum	7 1 1 1 1 1 1 1 1 1	13. USB communicating	23.4r U 3.0s
7. Current date	7 (W) • (D) 3-25		

4、LCD-LED Indication

	LCD Display	LED Indicator	Meaning
	>		Started
			Stopped
	√	flashes once every 10 seconds	Logging normally
	×	flashes once every 10 seconds	High/low temperature limit exceeded.
	* flashes		Bluetooth opened
	🔻 always on	flashes once per second	Data transmission via Bluetooth

Battery Replacement

- Turn the battery cover counter clockwise and remove it, take out the old battery.
- (2) Place a new battery inside with "+" side up.
- (3) Turn the battery cover clockwise and tighten it.







What's Include

- ◆ Temperature (Humidity) Data Logger x 1
- ◆ User Manual x 1
- ◆ Certificate of Verification x 1
- ◆ Certificate of Quality x 1

⚠ Warning!

- Please store your logger at room temperature.
- If you use the logger for the first time, please use ElitechLog software to synchronize system time and configure parameters.
- **a** Do not remove the battery if the logger is recording.
- a The LCD screen will be automatically off after 15 seconds of inactivity. Press the button again to turn on the screen.
- Parameter configuration on ElitechLog software will clear previously recorded data inside the logger. Please save all history data before you apply new configurations.
- To ensure the humidity accuracy, please avoid contact with unstable chemical solvents or compounds, especially avoid long-term storage or exposure to the environments with high concentrations of ketene, acetone, ethanol, isopropanol, toluene, etc.
- **10** Do not use the logger for long-distance transport if the battery icon is less than half as
- **5** Before using the Bluetooth data logger, please turn on its Bluetooth function first.

Default Parameter Configurations

Parameter	Default	Remark	Parameter	Default	Remark
Logging Interval	10 min		Repeat Start	Disable	
Start Mode	Press Button		High Temperature Limit H3	/	
Start Delay	1		High Temperature Limit H2	/	
Press Button	Enable		High Temperature Limit H1	8°C	
Temporary PDF	Enable		Low Temperature Limit L1	2°C	
Temperature Unit	°C		Low Temperature Limit L2	/	
Time Zone	UTC+8:00		Calibration Temperature	0°C	
Circular Logging	Disable		High Humidity Limit	/	
Alarm Mode	Multiple Alarms		Low Humidity Limit	/	
Alarm Type	Single		Calibration Humidity	/	
Alarm Delay	/				