

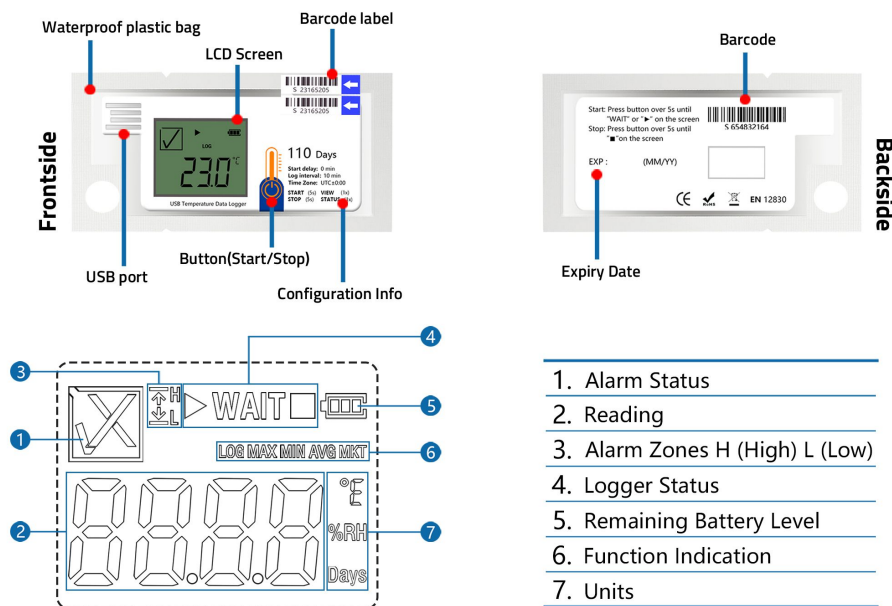
User Manual - LCD

Single-Use Temperature Logger



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www.trackfresh.eu

Explain in detail



Product Overview

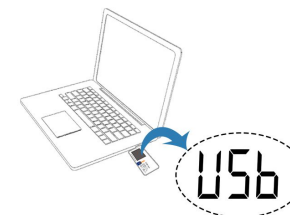
This document describes specific validation procedures for LCD data loggers, for the purpose to ensure the proper operation and provide a reliable temperature and time record during transportation and storage.

Technical Specifications

Recording Option	Single Use	Certifications	EN12830,CE, ROHS
Temperature Range	-30°C to +70°C	Validation Certificate	Hardcopy and PDF file in Memory
Temperature Accuracy	±0.2°C (-20°C to +40°C); ±0.5°C (other range)	Software	LCD logger or newer
Temperature Resolution	0.1°C	Report Generation	Auto Generated PDF and CSV
Data Storage Capacity	28,000 Readings	Connection interface	USB 2.0, A-type
Shelf Life / Battery	18 months/3V CR2450	Alarm Configuration	Optional
Recording Interval	10 minutes (Customizable)	Reprogrammable	Yes
Recording Duration	110 Days (Customizable)	Accessories Incl.	Shipping Documents, certificate, Reprogrammable Label, Seal Bag
Startup Mode	Button or Software		
Protection Class	IPE67/NEMA 6		
Dimension	80mm x 36mm x 8mm		
Weight	Approx 25g		

1. Depending on optimal storage conditions (15°C to +25°C/45% to 75%RH)
2. Depending on application temperature (Extreme low / high temperature may shorten battery life)

Software Configuration

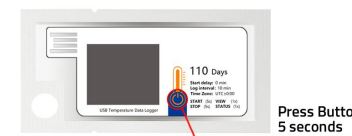


If you need to use software to configure logger, please ask from distributor for software or download from our website, then install and open it.

Connect data logger to PC via USB connection, the logger LCD will display "USB", open the software and follow the step start configuring until logger LCD shows "rAdY" which means successful configuration.

Operations

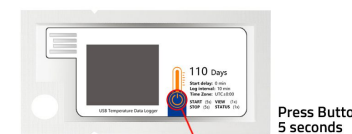
01 Start Logging



Press and hold the button 5 seconds until the icon ► shows on the LCD, indicating the logger start logging.

Note: If the icon WAIT lighting, it means the logger configured with start delay, it will start logging after the set delay time elapses.

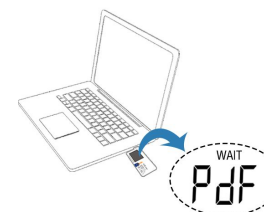
02 Stop Logging



Press and hold the button 5 seconds until the icon ■ shows on the LCD, indicating the logger stopped logging.

Note: This logger could not be stopped by pressing button before at least two readings after recording begins.

03 Download Data



Connect the data logger to your computer via USB Port, "WAIT" and "PDF" icon will show on LCD, "WAIT" icon lighting means the PDF on generating process, after reports generated the "WAIT" icon will be off and locates a removable storage disk on your computer, A PDF report will generate automatically. Please save the report to your computer.

Note: Please DO NOT unplug the logger until "WAIT" icon off which means the reports generation process finished.

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Note: Shortly press to switch to different display interface.

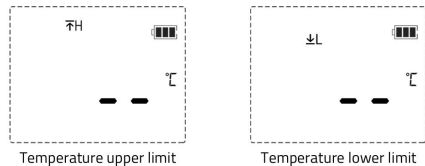
Before started: The interfaces shown in sequence are respectively-Temperature upper limit interface-Temperature lower limit interface.

During recording: The interfaces shown in sequence are respectively-Real time Temperature interface -Max temperature ever recorded (to the time press button)-Min temperature ever recorded (to the time press button)-Average temperature (to the time press button).

After stopped: The interfaces shown in sequence are respectively-Real time Temperature interface -Max temperature ever recorded (to the time logger stopped)-Min temperature ever recorded (to the time logger stopped)-Average temperature (to the time logger stopped).

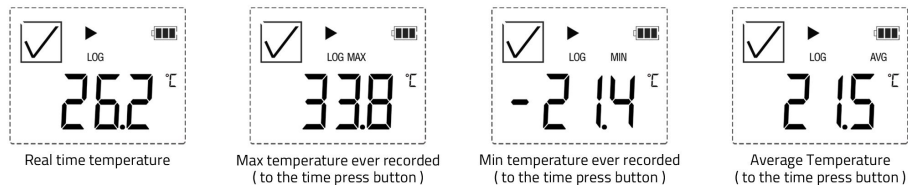
Indication Instructions

1, LCD page indication (Before started) A single click on the button allows browsing each LCD Page.



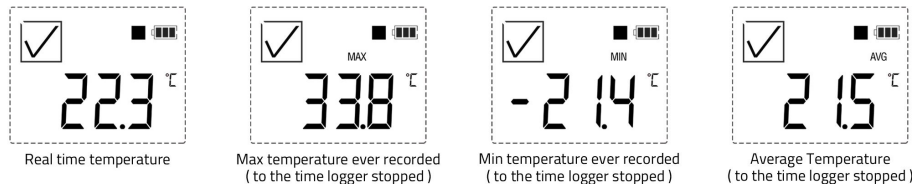
Note: When click browsing before started, There is no ► or ■ icon shown in the LCD screen.

2, LCD page indication (During recording) A single click on the button allows browsing each LCD Page.



Note: When click browsing during recording, Icon ► or "WAIT" (During start delay) will be shown in the LCD screen.

3, LCD page indication (after stopped) A single click on the button allows browsing each LCD Page.



Note: When click browsing after stopped, Icon ■ will be shown in the LCD screen.

Battery Management

Battery level indication				
Battery capacity	Full	Good	Medium	Low

Note: Battery indicator may not accurately reflect the actual remaining battery in different low temperature conditions. Please do not use the data logger for long trip when remaining battery below Medium.

Notes

- When LCD logger is stopped and connected to computer the first time, "WAIT" and Pdf icon will be on the LCD to indicate the PDF and CSV reports are in process of generation. At this time, please DO NOT unplug the logger until "WAIT" icon off, which indicates the finished PDF and CSV report generation.
- A stopped LCD logger cannot be started again.
- Do not place LCD logger into corrosive liquid or expose to direct heat.
- The battery of LCD logger is non-replaceable CR2450 lithium battery.
- Store LCD logger under room temperature conditions and do not use once it is expired.
- Please dispose LCD loggers in accordance with local laws and regulations (electronic waste).
- To reprogram LCD logger, Please follow instructions in the extra manual, or visit our website for further information.

1:1 Time Zone Conversion Table

The standard time of LCD logger is UTC To match your local time, please note the time difference.

Vakue	Time Zone
(UTC + 14:00)	Line Islands, Kiritibati
(UTC + 13:00)	Nuku'alofa
(UTC + 12:00)	Auckland,Wellington, Fiji, Karnchatka, Marshall Is.
(UTC + 11:30)	Norfolk Island
(UTC + 11:00)	Magadan,Solomon Is.,New Caledonia
(UTC + 10:30)	Lord Howe Island
(UTC + 10:00)	Brisbane, Canberra, Melbourne, Sydney, Hobard, Vladivostok, Guam, Port Moersby
(UTC + 09:30)	Darwin, NT, Australien, Adelaide, SA, Australien
(UTC + 09:00)	Yakutsk,Osaka,Sapporo, Tokyo, Seoul, Adelaide, Darwin
(UTC + 08:00)	Perth, Taipei, Kuala Lumpur, Singapore, Irkutsk, Ulaan Bataar, Beijing, Chongqing, Hong Kong, Urumqi
(UTC + 07:00)	Krasnoyarsk, Bangkok, Hanoi, Jakarta
(UTC + 06:30)	Myanmar, Rangun,Myanmar, Kokosinseln
(UTC + 06:00)	Astana, Dhaka, Yangon (Rangoon), Almaty, Novosibirsk
(UTC + 05:45)	Nepal, Kathmandu
(UTC + 05:30)	India, New Delhi, Mumbai, Kalkutta, Adamanen-Inseln, Nicobar-Inseln
(UTC + 05:00)	Ekaterinburg, Chennai, Kolkata, Mumbai, New Dehli, Kathmandu, Islamabad, Karachi, Sri Jayawardenepura, Tashkenk
(UTC + 04:30)	Afghanistan
(UTC + 04:00)	Kabul, Abu Dhabi, Muscat, Yerevan, Baku, Caucasus Standard Time
(UTC + 03:30)	Teheran, Iran
(UTC + 03:00)	Moscow, St. Petersburg, Volgograd, Tehran, Tbilisi, Nairobi, Baghdad, Kuwait, Riyadh
(UTC + 02:00)	Minsk, Cairo, Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius, Athens, Bucharest, Istanbul,Jerusalem, Amman, Beirut,Harare,Pretoria
(UTC + 01:00)	Brussels, Copenhagen, Madrid, Paris, West Central Africa, Sarajevo, Skopje, Warsaw, Zagreb, Belgrade, Bratislava,Budapest,Ljubljana,Prague
(UTC ± 00:00)	Dublin, Edinburgh, Lisbon, London, Monrovia, Reykjavik, Casablanca(standard time of RC-18/19)
(UTC - 01:00)	Azores, Cape Verde Is
(UTC - 02:00)	Mid-Atlantic
(UTC - 03:00)	Buenos Aires, Brasilia, Greenland, Monetvideo, Newfoundland, Georgetown
(UTC - 03:30)	Newfoundland, Kanada, Surinam
(UTC - 04:00)	AtlanticTime(Canada),Manaus, Santiago, La Paz, Caracas
(UTC - 05:00)	Eastern Time (US & Canada), Bogota, Lima, Quito, Rio Branco
(UTC - 06:00)	Central Time (US & Canada), Guadalajara, Mexico City, Monterrey, Central America
(UTC - 07:00)	MountainTime(US & Canada),Arizona, Chihuahua,La Paz, Mazatlan
(UTC - 08:00)	Pacific Time (US & Canada)
(UTC - 09:00)	Alaska
(UTC - 10:00)	Hawaii
(UTC - 11:00)	Midway Island, Samos
(UTC - 12:00)	International Date Line West