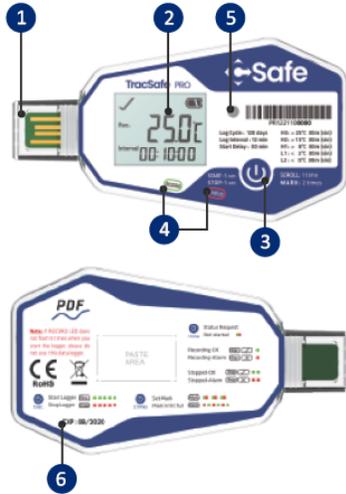




TracSafe PRO User Manual

Single-Use Data Logger

Product Overview

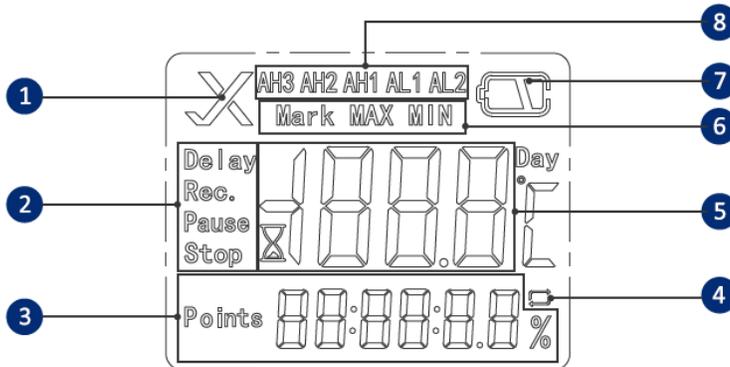


1. USB Protective Cover	4. LED Indicator
2. LCD Screen	5. Light Sensor
3. Button ⁽¹⁾	6. Shelf life

⁽¹⁾Button Function Instructions:

Operation	Function	Status Indication*
Press & Hold 5 Seconds	Start/Stop Recording	Start Recording: [Rec.] ●●●●● Stop Recording: [Stop] ●●●●●
Single Click	Light Up LCD Backlight; Page Up/Down	See "Indication Instructions"
Double Click	Mark Events	Mark Success: [Mark] ●●●●● Mark Failure: [Mark] ●●●●●

*The code like [Rec.] will show on logger's LCD screen to indicate status. The red square ■ indicates the red LED light is flashing; The green square ■ indicates the green LED light is flashing; Each individual square indicates how many times it will blink; Two adjoining squares ■■ indicate both red and green LED light blink simultaneously. The same rules apply below.



1. Alarm status ⁽²⁾	5. Temperature display
2. Working status	6. Function indication
3. Logging Intervals/ Recorded Points	7. Battery indicator
4. Loop mark	8. Alarm threshold ⁽³⁾

⁽²⁾ Only displayed when Alarm is enabled.

⁽³⁾ Indicates current alarm status e.g., if temperature goes above AH1 setting, AH1 code will appear on LCD screen.

Technical Specifications

Recording Options	Single Use
Temperature Range	-30°C~70°C / -22°F~158°F
Temperature Accuracy	±0.5°C (-20°C~+40°C)/±0.9°F (-4°F~+104°F), others ±1.0°C/±1.8°F
Resolution	0.1°C/°F
Data Storage Capacity	Max. 16,000 points
Shelf Life / Battery	2 years/CR2450 button cell ⁽⁴⁾
Recording Interval	12 minutes (programmable)
Recording Duration	Up to 120 days (programmable) ⁽⁵⁾
Start Mode	Button or software
Stop Mode	Button, software or stop when full
Protection Class	IP67

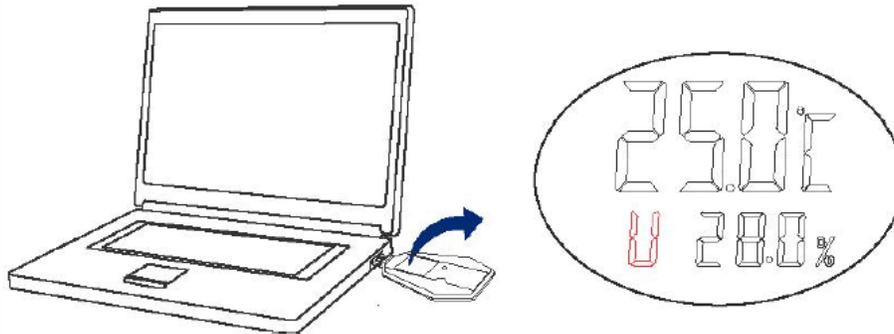
Certifications	EN12830, CE, RoHS
Validation Certificate	Digital copy
Compatible OS	Mac OS 10.10 or higher Windows XP/7/10
Report Generation	Automatic PDF report
Password Protection	Software Password Protection
Connection Interface	USB 2.0 (Standard Type A Connector)
Alarm Configuration	Optional, up to 5 thresholds

⁽⁴⁾ Depending on optimal storage conditions (15°C to 23°C (59°F to 73.4°F)/45% to 75% RH)

⁽⁵⁾ Depending on application temperature (very low/high temperatures may shorten it)

1. Software Configuration

If you want to use CSafe software to configure logger, please download from www.csafeglobal.com, then install and open the software. Connect the logger to USB port of computer, wait until "U" shows on LCD screen of the logger. Software will connect and sync the logger automatically, user can then start configuring device.



1. Start Mode

- **Manual start:** Press and hold button for 5 seconds to start recording. If you set Start Delay, logger will start recording after delay time elapses.
- **Auto start:** Logger will start recording automatically or on specific date/time configured by user, 2 options are available:
 - If you set Immediate Start, logger will start recording immediately after removing it from the computer.
 - If you set Timing Start, logger will start recording automatically on the scheduled date and time.



If logger starts normally, green LED light will blink once every 10 seconds; If alarm is triggered, green LED light will STOP and red LED light will blink once every 10 seconds.

2. Mark Events

- During recording, if you want to mark events, please double click the button to mark current temperature and time.
- A maximum of 10 marks are available for adding.
- If you add a mark successfully, LCD screen will display "Mark", "current mark numbers" and "SUC".



3. Stop Recording

- **Manual stop:** Press and hold button for 5 seconds to stop recording.
- **Auto stop:** If you set "Stop by" button to "off", the logger will stop automatically when it reaches the maximum storage points.



4. Download Data

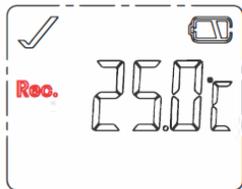
- **CSafe Software:** Open CSafe Software, connect logger to computer, wait until LCD screen shows "U" to indicate USB connection has been established successfully between the logger and computer.

All data should automatically be loaded to CSafe Software for users to view and analyze. If auto load fails, please click "Read Data" on CSafe to manually establish connection.

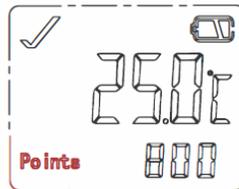
- **Without Software:** Logger has automatic PDF report generation function. If you cannot use software, please connect the logger to computer, wait until LCD screen displays "U" Navigate to the removable storage disk named "CSafe". There will be PDF report inside the disk, the report can be viewed or saved.

1. Other LCD Page Indications

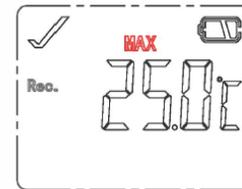
A single click on the button allows browsing each LCD page.



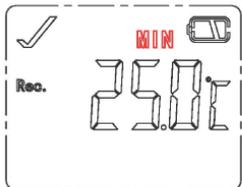
1. Current Temperature



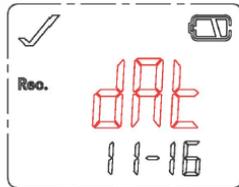
2. Recorded Points



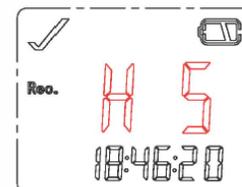
3. Maximum Temperature



4. Minimum Temperature



5. System Date: Month-Day



6. System Time: Hour:Minute

2. Meaning of LED Blinks

Single click the button, LED light will blink and you may check logger status based on it.

LCD displays as...	LED blinks as...	Indicates status...
		Not Started
		Delayed Start/Timing Start
		Started - OK
		Started - Alarm
		Stopped - OK
		Stopped - Alarm

Important!

- Please read this User Manual carefully before you use data logger.
Please store the data logger under room temperature.
- The logger can NOT be re-configured once you start it.
- If battery indicator icon on LCD screen only displays half of the icon, please do not use the logger for long-distance transport. 6l You do NOT need to stop logger for data viewing. Just connect logger to computer and open the temporarily generated PDF report
- The LCD screen will turn off automatically after 15 seconds of inactivity. Just a single click on the button can light up the screen.
- Logger should avoid contact with unstable chemical solvents or other organic compounds, especially should avoid long-term storage or exposure to environment that contains high concentrations of ketene, acetone, ethanol, isopropanol, toluene etc.
- The data logger is ideal to monitor and record temperature during storage and transportations for pharmaceuticals and other products. It can be used widely in all parts of warehousing, logistics and cold chain.