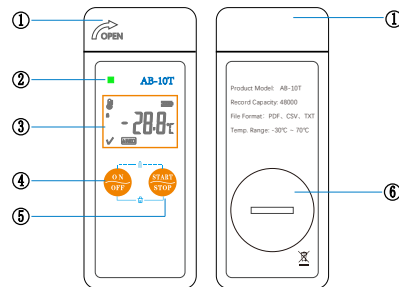# AB-10T Temperature logger

User manual

Product overview

The logger is mainly used to monitor and record the temperature data of food, medicine, chemical supplies and other products during storage and transportation. It is widely used in various links of the cold chain of storage and logistics, such as refrigerated containers, refrigerated trucks, refrigerated packages, Cold storage, laboratory, etc.

Technical parameters

◆ Temperature unit: °C or °F optional (selected from our software);
◆ Temperature range: -30°C ~ +70°C;
◆ Resolution: 0.1°C;
◆ Temperature accuracy: ±0.5°C (-20°C ~ +40°C), ±1°C for others;
◆ Sensor type: NTC;
◆ Record capacity: 48000 points;
◆ Record interval: 10s ~ 24h adjustable;
◆ USB interface: USB 2.0;
◆ File type: PDF、CVS、TXT;
◆ Battery: CR2450 battery;
◆ Battery life: 1 year (20°C environment with record interval 1min);
◆ Protection grade: IP65;

Product diagram

①	USB protection cover	④	Left key
②	Device indicator	⑤	Right key
③	LCD screen	⑥	Battery cover

Specification

Logger size: 101mm*40mm*11.5mm

Packing size: 127mm*74mm*26mm

Battery diagram

CR2450 3 V

Battery positive pole
This side outside when install battery

Battery negative pole
This side inside when install battery

Initial use

1. Download and install our software;

2. Open battery cover at the back of product, install battery with battery negative pole inside, then tighten the cover;

3. Open software, connect logger to PC USB interface. After successfully connected, select "parameter" page, and initialize the parameter configuration.

4. After saving the parameters, pull off logger from PC, ready for use.

Key instruction

The logger has left key and right key, with function as below:
Note: 1. Short press: press key for less than 5s.
       2. Long press: press key for more than 5s.

Short press left key: Cycle switching menu interface forward

Short press right key: Cycle switching menu interface backward

Long press left key: Start/Stop logger

Long press right key: Start/Stop recording

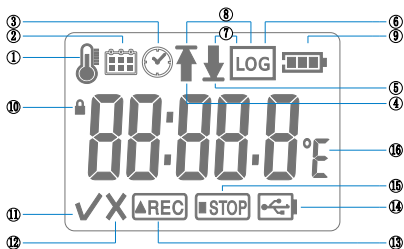Short press right and left keys at the same time:
Lock/Unlock keys

Long press right and left keys at the same time:
Under status of stop recording, delete record data.
(Note: need to enable the software configuration option "long press keys to delete data" as "enable")
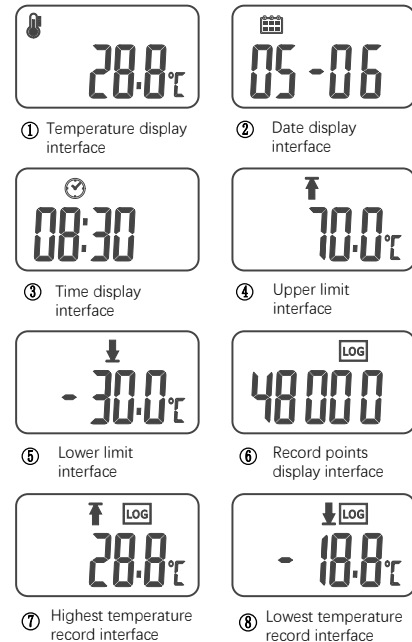
LCD diagram

① Temperature display interface   ⑨ Battery level

② Date display interface   ⑩ Keys lock icon

③ Time display interface   ⑪ No alarm icon

④ Upper limit display interface   ⑫ Over limit icon

⑤ Lower limit display interface   ⑬ Record status icon

⑥ Record points display interface   ⑭ USB connection status icon

⑦ Lowest temperature record display interface   ⑮ Non-recording status icon

⑧ Highest temperature record display interface   ⑯ Temperature unit

LCD menu interface

① Temperature display interface

② Date display interface

③ Time display interface

④ Upper limit interface

⑤ Lower limit interface

⑥ Record points display interface

⑦ Highest temperature record interface

⑧ Lowest temperature record interface

Battery level instruction

Battery level	Remaining capacity
	60% ~ 100%
	20% ~ 60%
	10% ~ 20%
	< 10%

Note:

1 When the remaining battery capacity is less than 20%, it is recommended to replace the battery to prevent inconvenience;

2 When the remaining battery capacity is less than 10%, please replace the battery as soon as possible to prevent the battery from running out.

Factory default parameters

Temperature unit: ℃	Export file type: PDF
Time zone: UTC +8:00	Report language: English
Start mode: start by pressing key	Start delay: 0 min
Stop mode: stop by pressing key	Temperature offset value: ±0.0℃
Temperature upper limit: 70.0℃	Temperature lower limit: -30.0℃
Normal record interval: 1min	Overlimit record interval: 30s
Circular log: enabled	Multiple start: enabled
Long press keys to delete data: enabled	Reset record after finishing configuration: disabled
LCD always on: timing off	Alarm setting: no alarm
Trip No.: XC000000	Trip description: NULL

Device standard list

1 piece logger

1 piece CR2450 battery

1 piece user manual

Device optional list

1. Add a logger hanging hole

2. Replace rechargeable battery

3. Replace low temperature battery