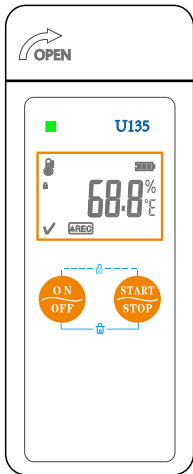


# HDL-U135 Temperature & Humidity Logger

(HDL-U13510TH)

## User Manual



## Product overview

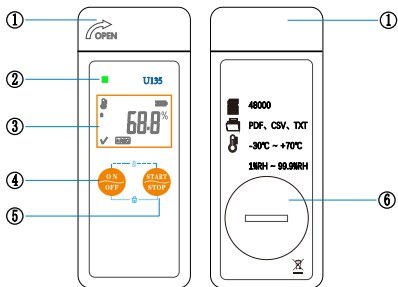
The logger U135 is mainly used to monitor and record the **temperature (-30 to 70 °C) and humidity (1%RH to 99.9%RH)** data of food, medicine, chemical supplies, and other objects during storage and transportation.

They are widely used in various cold chains 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;
- ◆ Temperature accuracy: ±0.5°C (-20°C ~ +40°C), ±1°C for others;
- ◆ Humidity range: 1.0 ~ 99.9%RH;
- ◆ Humidity accuracy: ±3%RH(25°C, 20 ~ 80%RH) other ±5%RH;
- ◆ Resolution: Temperature 0.1 °C, humidity 0.1% RH;
- ◆ Sensor type: Digital sensor;
- ◆ Record capacity: 48000 points;
- ◆ Record interval: 10s ~ 24h adjustable;
- ◆ USB interface: USB 2.0;
- ◆ File type: PDF、CSV、TXT;
- ◆ Battery: CR2450 battery;
- ◆ Battery life: 1 year ( 20°C environment with record interval 1 min);
- ◆ Protection grade: IP65;

## Product diagram



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① USB protection cover

④ Left key

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② Device indicator

⑤ Right key

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③ LCD screen

⑥ Battery cover

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## Specification

Logger Dimension: 101 mm \* 40 mm \* 11.5 mm (H \* W \* D)

Packing Dimension: 127 mm \* 74 mm \* 26 mm (H \* W \* D)

## Battery diagram



Battery positive pole

This side outside when  
install battery



Battery negative pole

This side inside when  
install battery

## Initial use

1. Open battery cover at the back of product, install battery with battery negative pole inside, then tighten the cover;
2. Download and install our software on a Windows OS PC, Running it;
3. Insert the USB logger to computer by the USB port;
4. Wait until the software auto scanning the USB logger, and calculate the data arrays. (10s to 5 Mins);
5. Select "parameter" Tab, and initialize the parameter configuration.
6. Manually change the parameters according to your requirement, remember to saving the parameters.
5. Pull off the logger from PC, ready for use.

## Key instruction

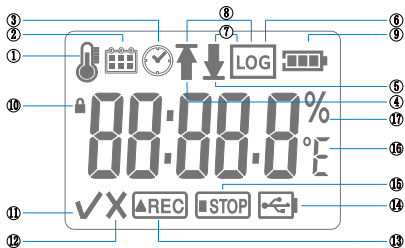
- ◆ **Turn On/Off:** Hold the **left** key for **5s** and then release it; the screen changes.
- ◆ **Start/Stop Record:** Hold the **right** for **5s** and then release it; the screen will show the Rec/Stop;
- ◆ Check the **Previous** Item: Press and release the left key;
- ◆ Check the **Next** Item: Press and release the right key;
- ◆ **Lock/Unlock** keys: Press and release the two keys at the same;
- ◆ **Wipe Data:** Hold the two keys at the same time for **5s** and then release them; All saved data will be wiped;

### Attentions

- ◆ Assure it is not recording now **before Wipe Data**;
- ◆ Check the log counts to confirm empty or not;

If failed, you need to enable the combination-keys delete function with the datalogger software from us.

## LCD diagram



① Temperature display interface    ⑩ Keys lock icon

② Date display interface    ⑪ No alarm icon

③ Time display interface    ⑫ USB connection status icon

④ Upper limit display interface    ⑬ Record status icon

⑤ Lower limit display interface    ⑭ Over limit icon

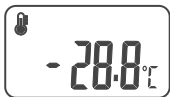
⑥ Record points display interface    ⑮ Non-recording status icon

⑦ Lowest temperature record display interface    ⑯ Temperature unit

⑧ Highest temperature record display interface    ⑰ Humidity unit

⑨ Battery level

## LCD menu interface



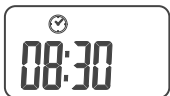
① Real Time Temp



② Real Time Humidity



③ Date



④ Time



⑤ Recordable Temp.  
Upper Limit



⑥ Recordable Humi.  
Upper Limit



⑦ Recordable Temp.  
Lower Limit



⑧ Recordable Humi.  
Lower Limit



⑨ Records Count



⑩ Highest Temperature in Records



⑪ Highest Humidity in Records







⑫ Lowest Temperature Records



⑬ Lowest Humidity in Records

## 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

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Temperature unit: °C

Humidity unit: %

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Export file type: PDF

Report language: English

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Time zone: UTC +8:00

Start mode: start by pressing key

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Start delay: 0 min

Stop mode: stop by pressing key

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Temperature offset value:  
±0.0°C

Humidity offset value: ±0.0%

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Temperature upper limit: 70.0°C Humidity upper limit: 99.9%

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Temperature lower limit: -30.0°C Humidity lower limit: 1.0%

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Normal record interval: 1min

Overlimit record interval: 30s

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Circular log: enabled

Multiple start: enabled

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Long press keys to delete data:  
enabled

Reset record after finishing  
configuration: disabled

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LCD always on: timing off

Alarm setting: no alarm

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Trip No.: XC000000

Trip description: NULL

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Pressing Key indicates Hold the key for 5s.

## Device standard list

1 piece logger

1 piece CR2450 battery

1 piece user manual

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