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UNI-T.
UT330TH USB Datalogger

UNI-T UT330TH USB Datalogger Instruction Manual

Contents

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Introduction

The USB datalogger (Hereinafter referred to as "logger") is a low-power consumption, high-accuracy temperature & humidity device. It has the characteristics of high accuracy, large storage capacity, auto-save, USB data transmission, time display and PDF export. It can meet the requirements of various measurements and long-term temperature and humidity recording and can be used in food processing, cold chain transportation, warehousing and other fields. UT330T is designed with IP65 dust/water protection. UT330THC can be connected to an Android smartphone or computer via the Type-C interface to analyze and export data in the smartphone APP or PC software.

Accessories

- Logger(with holder) ………………… 1 piece
- User manual. ………………………. 1 piece
- Battery ……………………………… 1 piece
- Screw ……………………………….. 2 pieces

Safety information

- Check if the logger is damaged before use.
- Replace the battery when the logger displays" ".
- If the logger is found abnormal, please stop using and contact your seller.
- Do not use the logger near explosive gas, volatile gas, corrosive gas, vapor and powder.
- Do not charge the battery.
- 3.0V CR2032 battery is recommended.
- Install the battery according to its polarity.
- Take out the battery if the logger is not used for a long time.

Structure (Figure 1)

No. Description

1. USB cover
2. Indicator (Green light: logging, red light: alarm)
3. Display screen
4. Stop/switch humidity and temperature(UT330TH/UT330THC)
5. Start/select
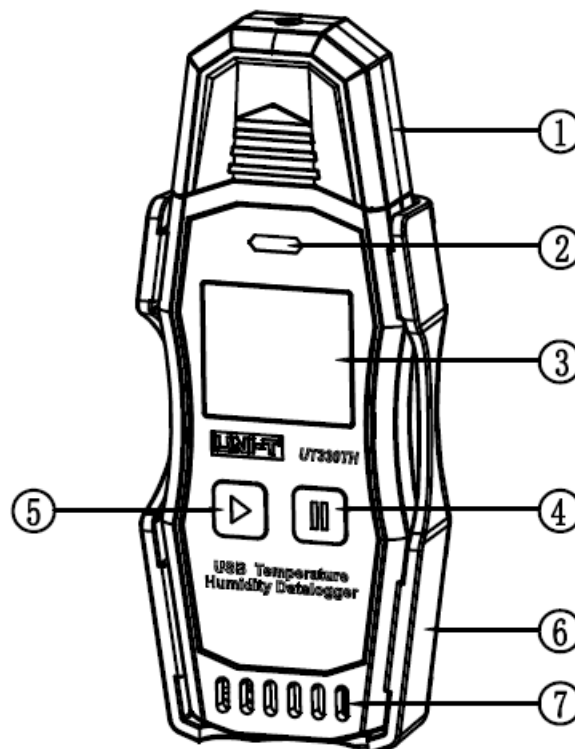6. Holder
7. Air vent (UT330TH/UT330THC)

Figure 1

Display (Figure 2)

No. Description

1. Start
2. Maximum value
3. Stop
4. Minimum value
5. Marking
6. Circulatory
7. Mean kinetic temperature
8. Number of sets
9. Temperature unit
10. Low battery

11. Humidity unit
12. Temperature & humidity display area
13. Time display area
14. Set a fixed time/delay
15. Alarm due to abnormal logging
16. No alarm
17. Lower value of alarm
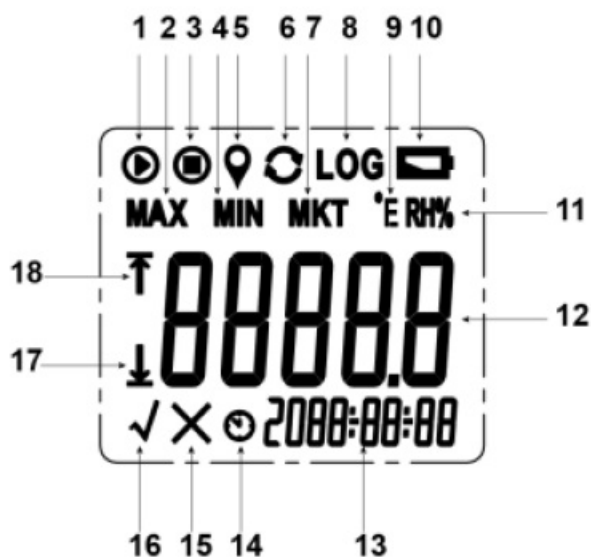18. Upper value of alarm

Figure 2

Setting

USB communication

- Download the instructions and PC software according to the attached file, then, install the software step by step.
- Insert the logger into USB port of the PC, the main interface of the logger will display "USB". After the computer identifies the USB, open the software to set parameters and analyze the data. (Figure 3).
- Open the computer software to browse and analyze data. As for how to use the software, users can click the help option on the operation interface to find the "software manual".

Parameter configuration

Model	The computer identifies the logger model automatically.
Unit	'C or 'F.
Language	The generated report language can be set to English or Chinese.
ID	Users can set the ID, the range is 0-255.
SN	Factory number.
Description	Users can add descriptions. The description will show in the generated PDF and should be less than 50 words.
UTC/Time zone	The product uses the UTC zone, which can be set according to the local time zone.
PC time	Obtain PC time in real time.
Device time	Obtain the time when the device is connected. Check "Update" and click "Write", the logger will synchronize with the PC time.
Mode	Users can select Single/Accumulate alarm mode.
Threshold	Users can set the alarm threshold. The low temperature (low humidity) must be smaller than the high temperature (high humidity).
Delay	The delay time used to determine the alarm state (Os to 1Oh)
Temperature and humidity Adjusting	Linear temperature and humidity adjustment -6.0'C(RH%)-6.0'C(RH%)
Recording mode	Normal/Circulatory
Sampling interval	10 seconds to 24 hours.
Sampling delay	Start logging in after the delay time. 0 to 240 minutes.
Start with	Press the button to start, start immediately through the software, and start at a fixed time.
Stop with key	Choose if press the button to stop. prevent recording stop resulting from misoperation.
Write	Write parameters to the logger.
Read	Read logger parameters into the computer software.
Close	Close the interface.

Figure 3 (Setting Interface of the PC Software)

Operations

Starting the logger

There are three starting modes:

1. Press the button to start the logger
2. Start logging through the software

Start logging at preset fixed time

- **Mode 1:** Long press the start button for 3 seconds in the main interface to start logging. This start mode supports start delay, if the delay time is set, the logger will start logging after a delayed time.
- **Mode 2:** Start logging through the software: On PC software, when the parameter setting is completed, the logger will start logging after the user unplugs the logger from the computer.
- **Mode 3:** Start the logger at a preset fixed time: On PC software, when the parameter setting is completed, the logger will start logging at the preset time after the user unplugs the logger from the computer. Mode 1 now is disabled.

Warning: please replace the battery if the low power indication is on.

Not logging   Logging

Delay logging   Logging at fixed time

Stopping the logger
There are two stop modes:

1. Press the button to stop
2. Stop logging through the software

- **Mode 1:** In main interface, long press stop button for 3 seconds to stop the logger, If "Stop with key" is not checked in the parameter interface, this function cannot be used.
- **Mode 2:** After connecting the logger to the computer, click the stop icon on the main interface of the computer to stop logging.

Recording mode

- **Normal:** The logger automatically stops recording when the maximum number of groups is recorded.
- **Circulatory:** When the maximum number of groups is recorded, the latest records will replace the earliest records in turn. will show on the screen if this function is enabled.

Function Interface 1
UT330TH/UT330THC: Short press stop button to switch between temperature and humidity in the main interface. In the main interface, short press the Start button to step through measured value, Max, Min, mean kinetic temperature, upper alarm value, lower alarm value, current temperature unit, and optional temperature unit (long press the Start and Stop buttons at the same time to switch between the units), and measured value. Users can short press stop button at any time to go back to the main interface. If no button is pressed for 10 seconds, the logger will enter the power-saving mode.

Marking
When the device is in logging state, long press start button for 3 seconds to mark the current data for future reference, the mark icon and current value will flash 3 times, total number of mark value is 10.

Function Interface 2

In the main interface, press the start button and stop button together for 3 seconds to enter the Function Interface 2, short press start button to view: Y/M/D, device ID, maximum numbers of remaining storage groups, numbers of marking groups.

Alarm State

- When the logger is operating,
- Alarm disabled: Green LED flashes every 15 seconds and main interface displays ✓.
- Alarm enabled: Red LED flashes every 15 seconds and main interface displays x.
- No LED lights when the logger is in stopping state.
- **Note:** The red LED will also flash when the low voltage alarm appears. Users should save the data in time and replace the battery.

Viewing data

- Users can view the data in stop or operating state.
- View the data in stop state: Connect the logger to the PC, if the LED flashes at this time, the PDF report is being generated, do not unplug the logger at this time. After the PDF report is generated, users can click the PDF file to view and export the data from the computer software.
- View the data in operating state: Connect the logger to the PC, the logger will generate a PDF report for all previous data, at the same time, the logger will continue logging data and it can only generate a PDF report with new data the next time.
- Alarm setting and result
- Single: The temperature (humidity) reaches or exceeds the set threshold. If the continuous alarm time is not less than the delay time, the alarm will be generated. If the reading returns to normal within the delay time, no alarm will occur.
- If the delay time is Os, an alarm will be generated immediately.
- Accumulate: The temperature (humidity) reaches or exceeds the set threshold. If the accumulated alarm time is not less than the delay time, the alarm will be generated.

Specification

Function		UT330T		UT330TH	UT330THC
	Range		Accuracy	Accuracy	Accuracy
Temperature	-30.0″C~-20.1°C		±0.8°C		
	-20.0°C~40.0°C		±0.4°C	±0.4°C	±0.4°C
	40.1°C~ 70.0″C		±0.8°C		
Humidity	0~99.9%RH		/	±2.5%RH	±2.5%RH

Protection degree	IP65	/	/
Resolution	Temperature: 0.1'C; Humidity: 0.1%RH		
Logging capacity	64000 sets		
Logging interval	10s~24h		
UniUalarm setting	The default unit is C. Alarm types include single and accumulated alarms, the default type is a single alarm. The alarm type can be changed through the PC software.	Can be set in the PC software and smartphone APP	
Start mode	Press the button to start the logger or start the logger through the software (Immediately/delay/ at a fixed time).		
Logging delay	0min~240min, it defaults at 0 and can be changed through the PC software.		
Device ID	0~255, it defaults at 0 and can be changed through the PC software.		
Alarm delay	0s~1Oh, it defaults at 0 and can be changed through the PC software.		
Screen off time	10s		
Battery type	CR2032		
Data export	View and export data in the PC software	View and export data in the PC software and smartphone APP	
Working time	140 days at a test interval of 15min (temperature 25°C)		
Working temperature & humidity	-30'C – 70°C, :c:;99%, non-condensable		
Storage temperature	-50°C-70°C		

EMC standard: EN61326-1 2013.

Maintenance

Battery replacement (Figure 4)

Replace the battery with the following steps when the logger displays " ".

- Rotate the battery cover counterclockwise.
- Install CR2032 battery and waterproof rubber ring(UT330TH)
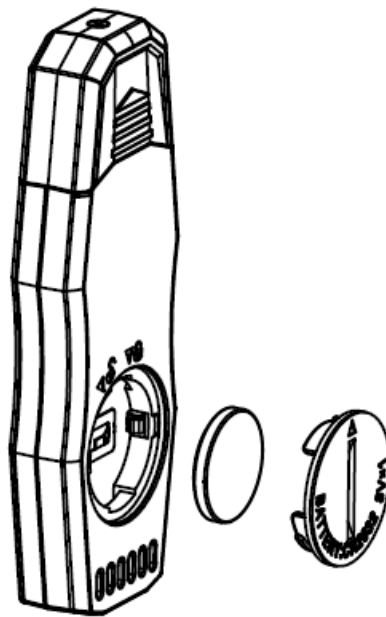- Install the cover in the arrow direction and rotate it clockwise.


Figure 4

Cleaning the logger

- Wipe the logger with a soft cloth or sponge dipped with a little water, detergent, or soapy water.
- Do not clean the logger with water directly to avoid damage to the circuit board.

Download Figure 4

- Download the PC software according to the attached operation guide
- Download the PC software from the official website of the UNI-T product center: **http://www.uni-trend.com.cn**

Install
Double-click Setup.exe to install the software
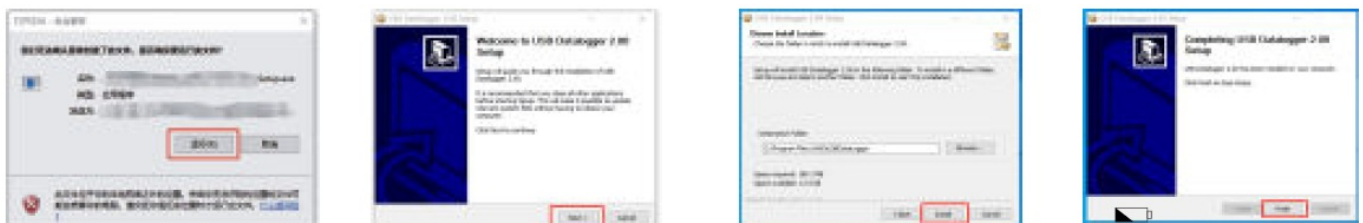
Installation of UT330THC Android Smartphone APP

Preparation

- Please install the UT330THC APP on the smartphone first.

Installation

- Search "UT330THC" in Play Store.
- Search "UT330THC" and download on UNI-T's official website: **https://meters.uni-trend.com.cn/download?name=62**
- Scan the QR code on the right. (Note: APP versions may be updated without prior notice.)

Connection

- Connect UT330THC's Tvoe-C connector to the smartphone's charming interface. and then open the APP.

CONTACT

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Documents / Resources

UNI-T UT330TH USB Datalogger [pdf] Instruction Manual
UT330TH, UT330TH USB Datalogger, USB Datalogger, Datalogger

References

- **User Manual**