

**UNI-T**

**A56 BT  
Temperature  
Humidity  
Datalogger**



## UNI-T A56 BT Temperature Humidity Datalogger User Manual

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**UNI-T**

**UNI-T A56 BT Temperature Humidity Datalogger**



## PREFACE

Thank you for purchasing the new Bluetooth Temperature Humidity Datalogger. In order to use this product safely and correctly, please read this manual thoroughly, especially the Cautions part.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

## LIMITED WARRANTY AND LIABILITY

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact an authorized service center or send the product back with problem description.

This warranty is the only compensation you can obtain. Uni-Trend will not be responsible for any special, indirect, incidental or consequential damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

## Overview

A56 BT Bluetooth Temperature Humidity Datalogger uses high high-accuracy digital temperature humidity module as the sensor, and with a low-power microprocessor. It features high accuracy, large storage capacity, auto record, time display, LED sound light alarm, ultra low temperature record and etc. Meanwhile, it supports to modify records, view data, and export PDF report via the mobile App or PC software. The datalogger can satisfy high accuracy measurement and long time temperature humidity record requirements in different conditions, widely used in food processing, cold chain transportation, storage and etc.

## Features

- High-accuracy digital temperature and humidity module.
- Wide range for temperature measurement, supports being used at a minimum of 40°C40°C.
- Large storage capacity, maximum record 64000 sets of data.

- Audible and visible alarm indication.
- Support to view data and export data report via the mobile App and PC software.
- IP54 rating supported.
- Self-carry rear magnetic function and wall-mounted hole, easy to place and use.

## **Configurations**

- Datalogger 1
- Quick Start Guide 1
- Safety Instructions 1
- Common Files Download Guideline 1
- Single use Li SOCl<sub>2</sub> Battery ER14505 1
- Wall mounted Screws 2
- Expandable Rubber Plug 2
- USB Cable 1
- Please contact your seller if any components are missing or damaged.

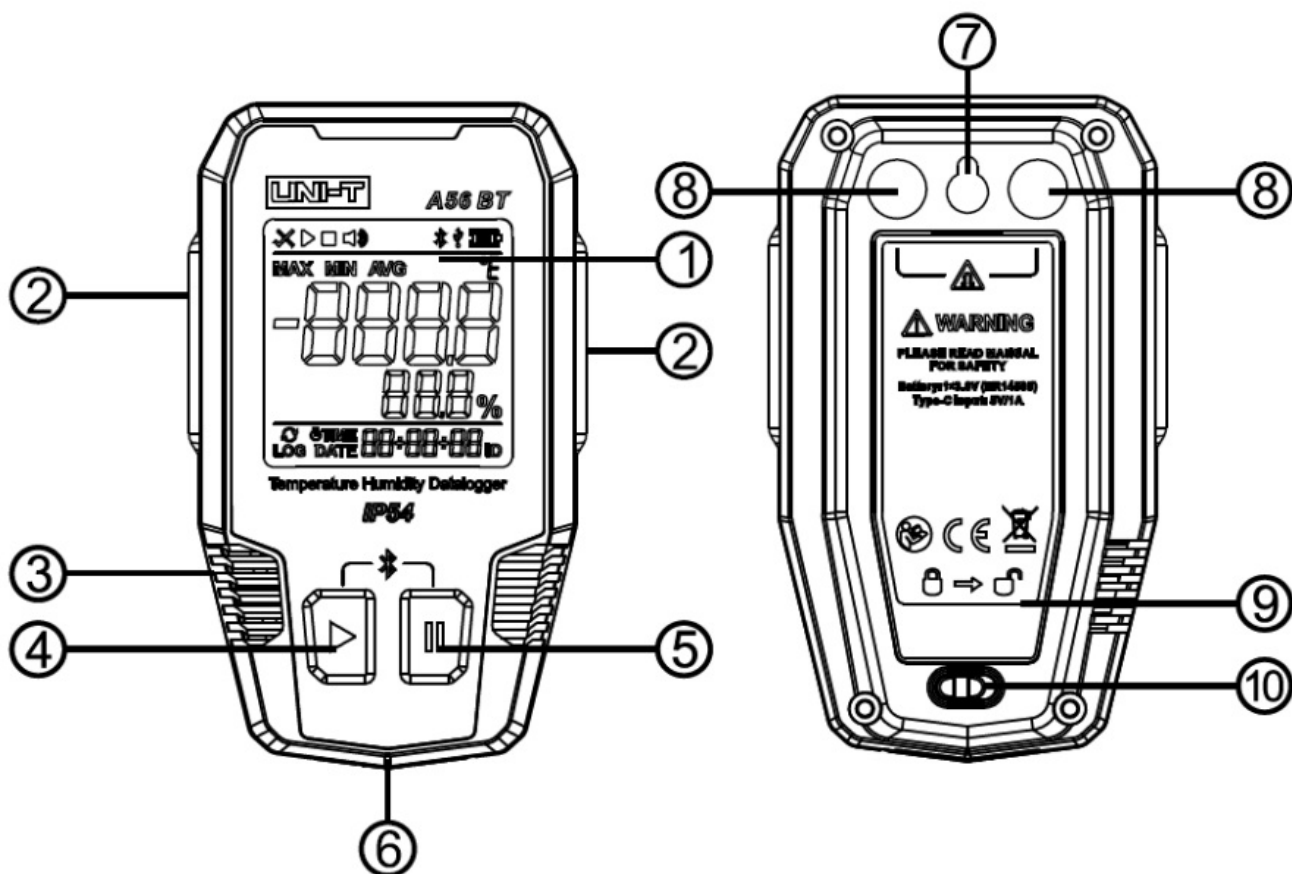
## **Safety**

Read the Safety carefully and comply with it prior to using the datalogger.

“Warning” identifies dangerous situations and operations that may cause harm to users. “Caution” identifies damage factors that may be caused to the product or test equipment.

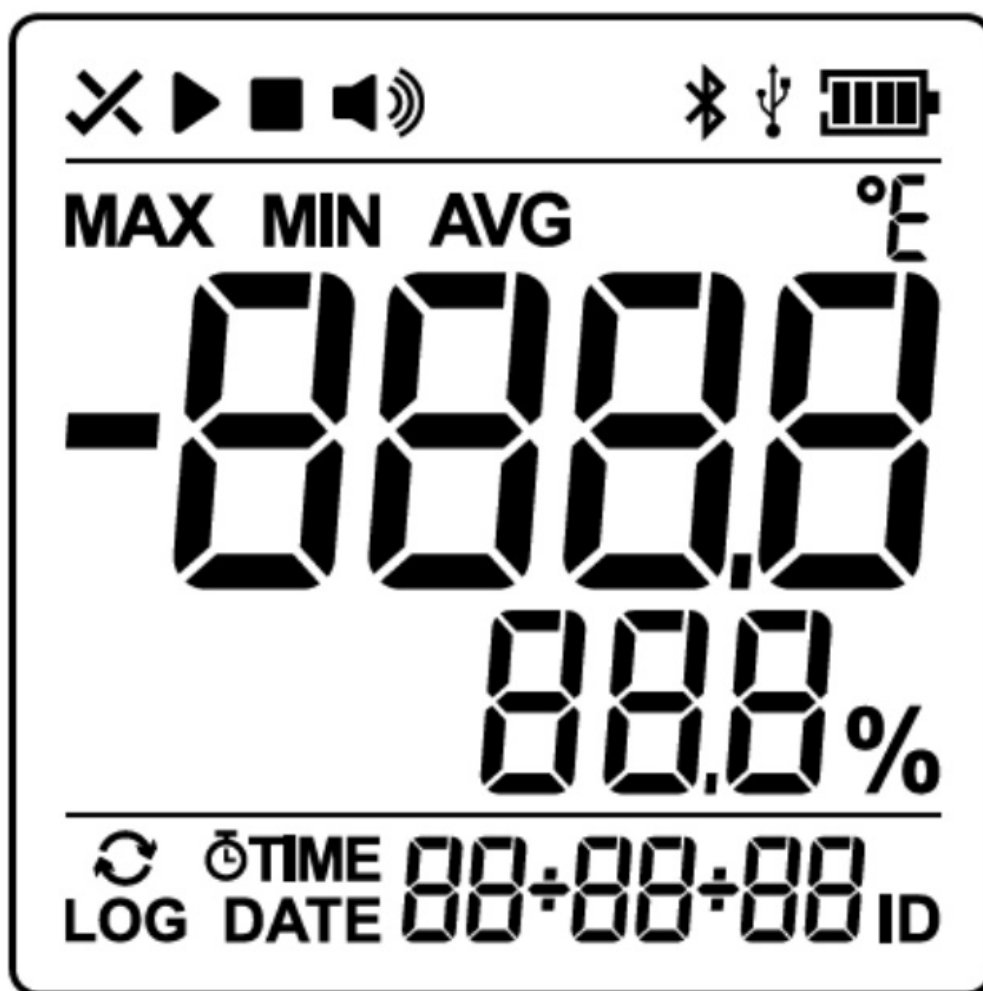
- Check if the device and accessories are damaged or abnormal prior to using them. Do not use the device if any obvious housing damage is shown or when you think it fails to work.
- Do not disassemble the device randomly or change internal wiring to avoid damage.
- Do not store or use the device in high temperature, high humidity, flammable, explosive or strong electromagnetic environment.
- Please use a soft cloth and neutral detergent to clean the housing. Do not use abrasives or solvents. Do not directly use water to flush it.
- Maintenance and service must be done by the specialized staffs or the specified department.

## **Structure**



No.	Description	No.	Description
1	Screen	6	USB Cover
2	LED Indicators	7	Wall-Mounted Hole
3	Air Hole of Sensor	8	Magnet
4	START Button	9	Battery Cover
5	STOP Button	10	Battery Cover Toggle

## Display

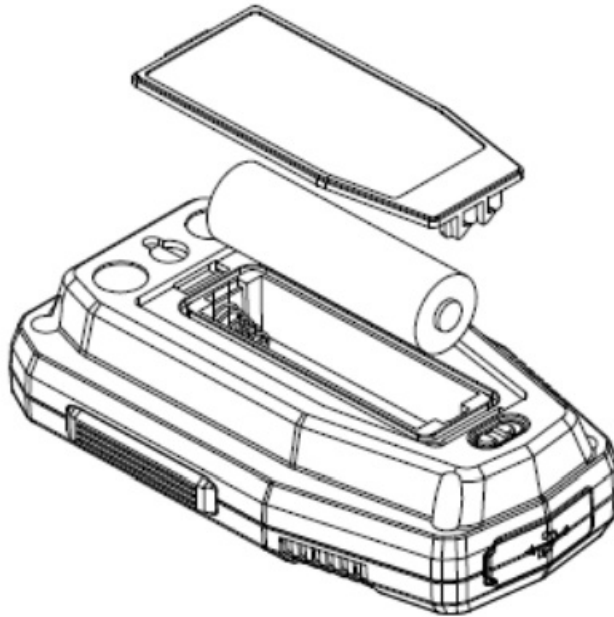


	✓ No Alarm ✗ Alarmed		Start to record		Stop recording
	Buzzer		Bluetooth		USB connecting
	Battery status	<b>MAX</b>	Maximum value in data record	<b>MIN</b>	Minimum value in data record
<b>AVG</b>	Average value in data record		Temperature units: °C/°F	<b>-0000</b>	Temperature display area
<b>000%</b>	Humidity display area		Loop record	<b>LOG</b>	Number of data record
	Booking record	<b>TIME</b>	Time	<b>DATE</b>	Date
<b>00-00-00</b>	Sub display area	<b>ID</b>	Device ID		

## Operation

## Battery Installation

- a) Install the battery in the first use.
- b) Toggle right to open the battery cover.
- c) Install the battery as follows.



## Cautions

- Note the battery polarity when installing the battery.
- Use an equipped 3.6V battery ER14505 , and AA battery (1.5V) does not work.
- The equipped battery is one-time, and do not charge it.

## Basic Operation

### START Button

- Short Press: Loop switch pages of Main Display > MAX > MIN > AVG (Note: The action is only effective when not in 0 data storage.

Long Press: Start to record data (Note: The action is only effective when the set Button to start. In the Button start way, if set the Restart function to Disabled and not in 0 data record, long press the START button is only effective when reading data through any one in three ways:

1. App reading
2. Auto read data/ generate files once connected the PC
3. PC software reading.

### STOP Button:

- Short Press: Loop switch pages of Time Device ID Storage Date on the sub display area, lower side of the screen.
- Long Press: Stop recording data (Note: Effective in record status)

## Bluetooth ON/OFF

- Bluetooth ON: Simultaneously long-press the STRAT and STOP buttons, Bluetooth icon flashing.
- Bluetooth OFF: Simultaneously long-press the START and STOP buttons, and the Bluetooth icon disappears.

### Note:

1. Bluetooth ON with screen always on will be OFF in 5 minutes if no connection.
2. Bluetooth
  - a. Flashing: Waiting to be connected.
  - b. Solid Bluetooth: Connected.

## Parameter Setting

- A. Set parameters via the mobile APP or PC software.
- B. Parameter details are as follows:
  1. SN: Factory No., Serial No.
  2. ID : Device ID, 0~100 can be set
  3. Note: Note the information
  4. Temperature Units:
  5. Date & Time: Manually set or follow the system
  6. Auto Screen OFF: A Solid light or 10s~5min can be set for auto screen off.
  7. Backlight: Screen backlight ON/OFF
  8. Buzzer: Beeps 3 times in alarm when buzzer is ON, and repeats with a one-hour interval.
  9. LED Indicators: LED flashes in red for 3 times in alarming when indicators ON, and repeats with a one hour interval.
  10. Temporary PDF: A Temporary report is generated when connecting the computer.
    - a) With this function ON and connecting the computer via USB cable, the LED flashes green, generating process of the report shows on the screen, generating a U disk that includes PDF and CSV files.
    - b) With this function OFF, using a USB cable to connect the datalogger with a computer will generate an empty U disk.
    - c) Report viewing ways:
      1. Directly view the report on ce computer connected.
      2. View the report via the PC software download.
      3. View the report via the Bluetooth-connected mobile App.

Note: If connects datalogger with a computer or mobile in record status, all data, including the data before connection, will be generated into a report, then the datalogger keeps recording data, and the new recorded data will be generated into a report in the next connection. Report generating duration depends on how much data is stored, in seconds or minutes. A maximum of 64000 sets of data takes about 10 minutes to generate a report.
  11. Record Modes:
    - a) Stops when records full: Auto stop recording when the data is up to 64000 sets.

- b) Loop record: Rerecorded data will cover the previous data when it fully records 64000 sets of data, e.g., the 64001 data covers the 1st data, the 64002 data covers the 2nd data, and the exported data is chronological.

## 12. Start-up Ways: Software, Buttons and Booking.

### a) Software: Two start ways.

1. Select the Software option in the mobile App page "Record Start" to start.
2. The "Record Start" option shows when the PC software.

b) Buttons: Long-press press START button to start recording.

c) Booking: Set the start time here.

## 13. Delay Start-up: 0~240min can be set to delay the first data recording.

1. Record Interval: 10s~24 h settable
2. Buttons Stop: Enabled/Disabled. Stop recording can only be done via the App or PC software when this function is set to disabled

Restart-up: Enabled/Disabled. In the condition with data records, only when the button is the start-up way, can the Restart-up function set to enabled or disenabled.

- a) When the Restart-up function is set to disabled but with available recorded data, use the button to restart-up only effective after reading data in temporary PDF way via the mobile App or PC software.
- b) No limit when the Restart-up function is enabled.

Note: Restart-up will generate new data records and delete the previous stored data.

## a. Alarm Settings:

- a Thresholds: Alarms when the data is out of limit.
- b) Types: Single/Cumulative.
- c) Delay: Used to compare with the alarm duration to judge if it is in alarm status.
- d) Alarm Settings and Results:
  1. Single Alarm: When the single temperature (humidity) is up to or exceeds the threshold duration,  $\geq$  the delay time of alarm.
  2. Cumulative Alarm: When the cumulative temperature (humidity) is up to or exceeds the threshold time,  $\geq$  the delay time of alarm.
  3. Alarm Duration: When the recorded temperature (humidity) is up to or exceeds the total threshold duration.
  4. Alarm Times: When the recorded temperature (humidity) is up to or exceeds the threshold until to recover or end the record, considered as one alarm time.

## Specification & Default Configurations

### Technical Specification



Temperature Range	-40°C 85°C (-40°F 185°F)	
Humidity Range	0% 100% RH	
Temperature	Range	Accuracy
	0°C ≤ t ≤ 60°C	±0.3°C
	-40°C ≤ t 0°C 60°C t ≤ 85°C	±0.5°C
	32°F ≤ t ≤ 140°F	±0.6°F
	-40°F ≤ t 32°F 140°F t ≤ 185°F	±0.9°F
Humidity	Range	Accuracy
	0% ≤ RH ≤ 90%	±2.5%RH 25°C
	90% RH ≤ 100%	±3.5%RH 25°C
Temperature/Humidity Resolution	0.1°C(0.1°F)/0.1%RH	
Record Capacity	64000 sets	
MAX/MIN/AVG	√	
LED Indicators	√	
Backlight	√	
Buzzer Alarm	√	
PC Software	√	
Mobile App	√ TempLink	

Low Battery Indication	√
Record Interval	10s 24h (Set through the PC/App)
Start-up Ways	Buttons/Software/Booking
Time of Screen OFF	15s±2s (Set through the PC/App)
USB Port	USB Type-C
USB Power Supply	Supported (Power supply only, the battery is not chargeable)
Battery Type	Single-use Li-SOCl <sub>2</sub> Battery 3.6V 2700mAh ER14505
Working Time	2yr (Room temperature, Test interval 15min, 15s screen off, Buzzer off, Indicators/Backlight Bluetooth off)
Hangings Way	Rear magnetic or Wall mounting
Working Temperature and Humidity	-40°C +85°C ≤99%RH
Storage Temperature	-40°C +85°C Not battery included -40°C +60°C ER14505 battery included
Certificate	EMC: EN IEC 61326-1:2021
IP Rating	IP54
Weight	About 110g
Size	62x104x25mm

Note: LCD display may response slowly in a low-temperature environment, but without influencing the normal measurement.

### Default Configurations

Parameter	Default Value	Parameter	Default Value	Parameter	Default Value
<b>Record Interval</b>	15min	<b>Backlight</b>	OFF	<b>Auto Screen OFF</b>	15s
<b>Temperature Units</b>	°C	<b>Temporary PDF</b>	ON	<b>Time</b>	Follow System
<b>LED Indicators</b>	OFF	<b>Buzzer</b>	OFF	<b>Record Modes</b>	Stop as Records Full
<b>Restart-up Ways</b>	Buttons	<b>Button Stop</b>	Enabled	<b>Restart-up</b>	Enabled
<b>Record Delay</b>	0s	<b>ID</b>	0	<b>Alarm</b>	ON

## Mobile App/PC Software Download

### Mobile App Download

To download the mobile App as follow


- a) For IOS, search and download TempLink in the App Store.
- b) For Android, search and download TempLink in the Play Store.

### PC Software Download

Download Temperature Humidity Datalogger

1. See the attached Common Files Download Guideline to download PC software.
2. Visit UNI T's <https://www.unitrend.com/> and find the right product model to download.

## Operating Hints

- Replace the battery when  is flashing on the LCD.
- The battery ER14505 is single-use and should not be charged the battery to avoid battery leakage.
- Take the battery out when it is a long time no use.
- OL/ OL shown on the Datalogger means the measured temperature is higher/lower than the Hi/Lo range.
- Do not plug or unplug the USB during the Mobile App usage to avoid Bluetooth disconnection.
- Do not open Bluetooth during the PC connecting to avoid the connection conflict between the mobile App and PC, otherwise, Err shows.

The manual is subject to change without prior notice!\ Due to different batches, the materials and details of actual products may be slightly different from the graphic information; please refer to the actual product received. Experimental data provided in the page is from the internal laboratory of UNI T, but it should not be a reference for customers to place orders. Any questions, please contact customer service. Thanks!

## Frequently Asked Questions


- **Q: Can I charge the provided battery?**

- A: No, the provided battery is one-time use only and should not be recharged.


- **Q: How do I access recorded data on the datalogger?**

- A: You can view recorded data through the mobile App, PC software, or by connecting the device to a PC for data retrieval.

## Documents / Resources

	<p><a href="#">UNI-T A56 BT Temperature Humidity Datalogger</a> [pdf] User Manual A56 BT Temperature Humidity Datalogger, A56 BT, Temperature Humidity Datalogger, Humidity Datalogger</p>
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## References

-  [Home - UNI-T | Measurement Meters, Testing Instruments and Thermal Imaging](#)
- [User Manual](#)

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