TZ-BT07 User Manual V1.1

1 Product overview

TZ-BT07 is Bluetooth Low Energy temperature data logger for single use with the latest Bluetooth 5.0 technology. It can collect temperature of the surrounding environment. Such data can be recorded as history data. BT07 can store up to 8640 pieces of the temperature data.Mobile phone with Bluetooth 4.0 or above can download and install App.It can store and monitor temperature of the environment comprehensively. Its characteristics are small-sized, low-weighted, easily portable,highly accurate for wide use in cold chain logistics,etc.

2 Product application

1. Refrigerated storage and transportation;
2. Pharmaceutical environment;
3. Fresh transport;

3 Product features

1. High accuracy and stability;
2. small-sized, low-weighted,easy to carry and stick;
3. Bluetooth 5.0;
4. Built-in highly sensitive temperature sensor;
5. It can store 8640 pieces of temperature data(Stop when full);
6. History report can be sent to specified email;
7. By pairing Bluetooth printer to print the data report;
8. Single-use;

4 Product specification

Item	Specification
Protocol standard	Bluetooth 5.0
Built in battery	20mAh /Paper battery(can't replaceable)
Storage	Can be save 8640 temperature data
Operating temperature range	-10°C~ +50°C
Temperature detection accuracy	±0.5°C(-10~40°C),±1°C(other)
Temperature resolution	0.1°C
Temperature refresh frequency	5s
Broadcast power	-4dBm
Broadcast Interval	Press the button to open briefly
Record Interval	10min
Alarm Range	2°C~8°C
Use Type	Single-use
Net weight	14g
Outline size	84mm*64mm*1.8mm

5 Caution

1. Being close to a metal object will interfere with the signal, causing the signal to be weaken;
2. Note the distance between TZ-BT07 and the receiver to guarantee the accuracy of receiving;
3. Keep away from corrosive objects;

6 Switch Instructions

Device status	Operation	Indicator Status	Instructions
Turn on	Under unopened state, long press button for 3 seconds	Green light bright for 3s	Turn on the device data logging
Turn Off	Open state, long press the button for 3 seconds	Red light bright for 3s	Turn off the device data logging
initialization	Under unopened state,short press the button for less than 3 seconds	Green and red lights bright once at the same time	Not turn on the device data logging

Device status	Operation	Indicator Status	Instructions
Query data record status/Temporarily open the broadcast	Open/Stop state, short press the button for less than 3 seconds	Green light bright once	The device has been started/stopped and is in the recording or stopping state, and does not alarm,the broadcast is switch to 1 second interval, can be connected to read device data records, no more broadcast after 60 seconds

		Red light bright once	The device has been started/stopped and is in the recording or stopping state, and alarms,the broadcast is switch to 1 second interval, can be connected to read device data records, no more broadcast after 60 seconds
	Under unopened state,press the button for less than 3 seconds	Green and red lights bright once at the same time	The device has been unopened state,the broadcast is switch to 1 second interval, no more broadcast after 60 seconds

7 APP

'Temp Logger' is a free mobile applications which provided by our company to the users, can connect the BT07 through the Bluetooth of the mobile devices and data transmission, recording, synchronization, send to email. Apply the Bluetooth BLE way, so you can use phone for temperature monitoring.
download the Android APP, please do as follows:

Note: This APP can only read reports and cannot set devices.

Android download: Scan the following QR code;

7.1 Device Search

When data logging is opened and running is complete,open the APP, enter the device ID directly to register on the homepage, or scan the bar code to get the device ID, or do not enter any ID and directly click search to find the device .

7.2 Device connection

Enter the device connection page and click "CONNECT". After a successful connection, the device ID will be displayed on the "Devices" page, indicating that the device has been registered successfully .
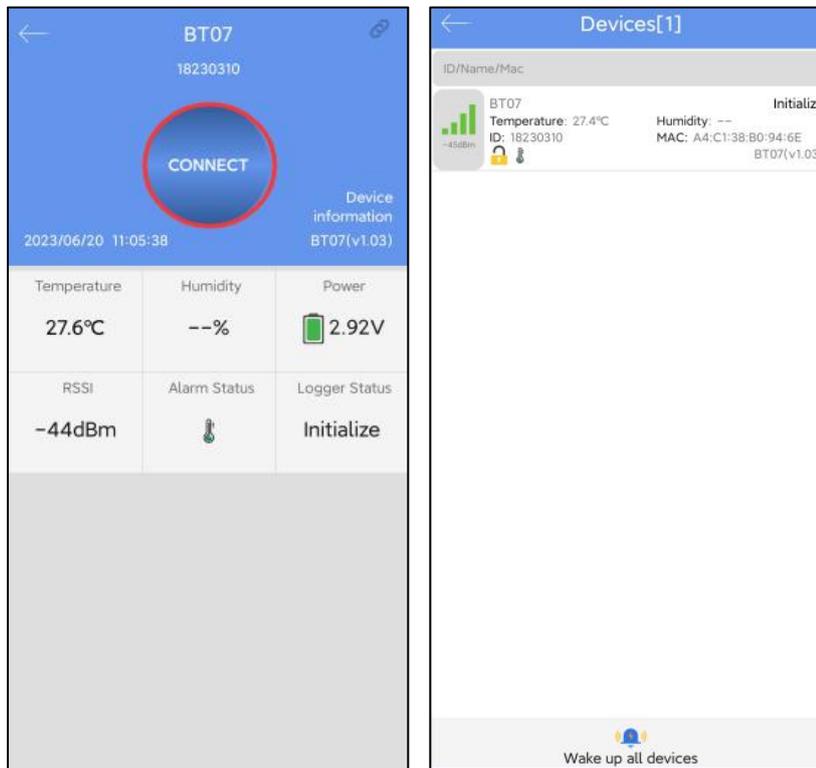
7.3 Device Read

The connection interface will display the device temperature, voltage, RSSI, alarm status and logger status of the device. Click "CONNECT," and jump to update after the connection is successful, indicating that the device has been successfully connected and read the current data content. After the connection is successful, it will prompt you whether to view the report, or the access key will be displayed.detail will be displayed at the bottom of the interface:
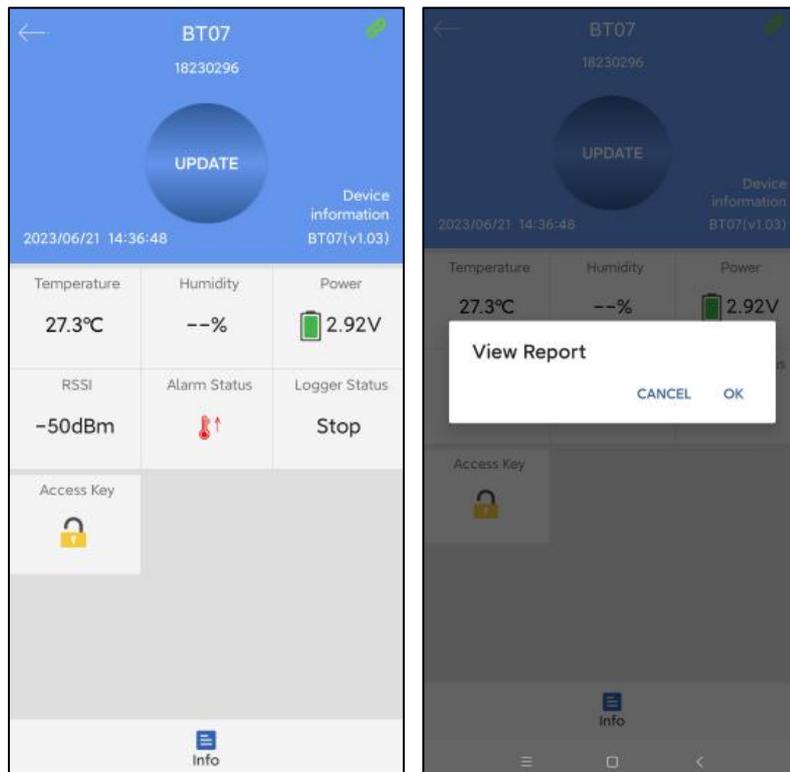
Note: The device will not update the data in the connection process. By default, the device will be disconnected after 90 seconds.

7.3.1 Device access key

Click "Access Key" to encrypt the device, and set the level-1 and level-2 access keys,the password is disabled by default.

7.3.2 Detail and email/print/selection period report function

Click "Detail" to view all information reports of the device. Click "EXPORT" to generate PDF and CSV reports, and send the reports to the designated mailbox by email,Click "Print" to automatically search the name of Bluetooth printer. Click the name to automatically pair and print the data report.Click the upper right corner to select the time period to generate the report.
A:Details summary

Screen 1 (top-left)

Detail

upper temperature alarmH1:8.0℃
lower temperature alarmL1:2.0℃

| 04/20/2023 11:05:58 | 04/20/2023 13:52:38 | 04/20/2023 16:39:18 |

■ Temperature℃

Summary

Temperature

Min:25.9℃ Max:32.7℃ Avg:27.2℃

MKT:27.3℃

Humidity

Min: -- Max: -- Avg: --

First Point:	04/20/2023 11:05:58
Stop Time:	04/20/2023 18:15:18
Trip Lenght:	07h 09m 20s
Number of Points:	2577

Summary Chart List Mark

Screen 2 (top-right)

Detail

Device Info

Device Name:	BT07
ID:	30230113
MAC:	A4:C1:38:28:0F:C3
Firmware Version:	1.02

Alarms

Alarm Condition	No. of Violations	Status
Temperature		
H2		
H1: Over 8.0℃	1	Alarm
L1: Below 2.0℃	0	OK
L2		
Humidity		
H2		
H1		

Summary Chart List Mark

Screen 3 (bottom-left)

Detail

Humidity	
H2	
H1	
L1	
L2	

Report Information

Start Delay:	00h 00m 00s
Log Interval:	00h 00m 10s
Start Mode:	Button Start
Stop Mode:	Recording
Description:	

EXPORT

PRINT

Summary Chart List Mark

Screen 4 (bottom-right)

Detail

Humidity	
H2	
H1	
L1	
L2	

Time Span

BeginTime: 2023/04/20 11:05:58

EndTime: 2023/04/20 18:15:18

DEFAULT   OK

EXPORT

PRINT

Summary Chart List Mark

Note: 1.The smartphone must have a mailbox APP and login account to send email.

2. The Bluetooth printer designated by our company must be connected.the Bluetooth name is "MTP-II" and the password is "0000".

3. Only the Android APP has print and select time to generate the report function.

B: Chart:
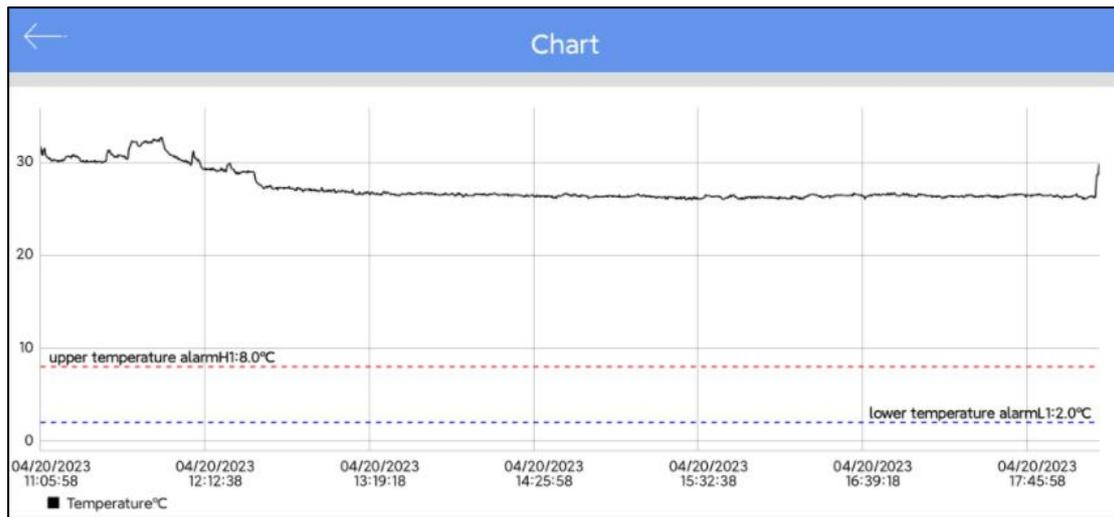
C: List:

NO.	DateTime	Temperature	Humidity
1	04/20/2023 11:05:58	31.7°C	--
2	04/20/2023 11:06:08	31.4°C	--
3	04/20/2023 11:06:18	31.3°C	--
4	04/20/2023 11:06:28	31.0°C	--
5	04/20/2023 11:06:38	30.8°C	--
6	04/20/2023 11:06:48	30.7°C	--
7	04/20/2023 11:06:58	30.8°C	--
8	04/20/2023 11:07:08	31.2°C	--
9	04/20/2023 11:07:18	31.4°C	--
10	04/20/2023 11:07:28	31.3°C	--
11	04/20/2023 11:07:38	31.5°C	--
12	04/20/2023 11:07:48	31.3°C	--
13	04/20/2023 11:07:58	31.0°C	--
14	04/20/2023 11:08:08	30.7°C	--
15	04/20/2023 11:08:18	30.7°C	--
16	04/20/2023 11:08:28	30.6°C	--
17	04/20/2023 11:08:38	30.5°C	--
18	04/20/2023 11:08:48	30.5°C	--
19	04/20/2023 11:08:58	30.5°C	--
20	04/20/2023 11:09:08	30.5°C	--