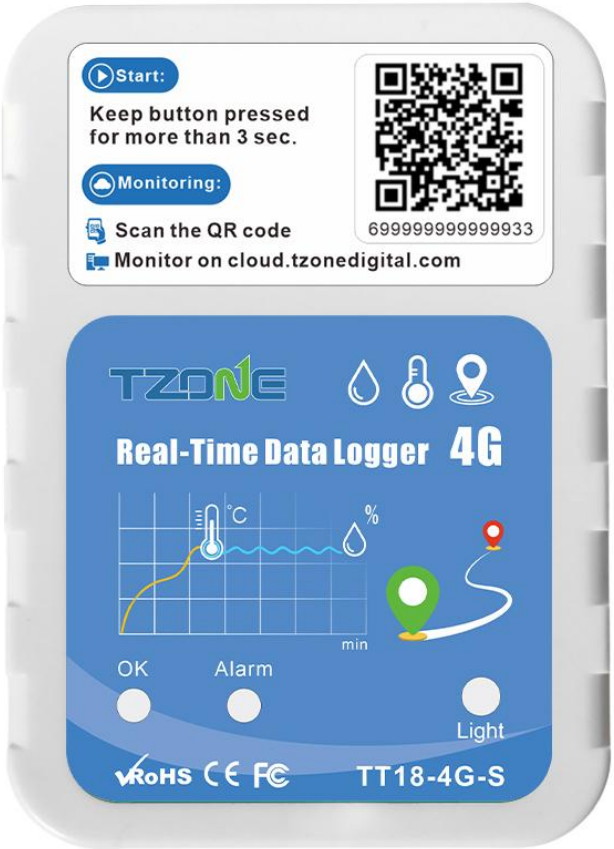
TT18-4G-S

Single use Temperature and Humidity Data Logger

User Manual V1.0



1. Product overview

TT18-4G-S single use temperature and humidity data logger is designed for the cold chain. Using high-quality sensitive elements, high measurement accuracy, embedded 4G modules, the measured data is sent to the background system through the 4G network for monitoring and analysis, and has the functions of alarm, light, positioning, and USB automatic generating PDF reports. TT18-4G-S uses a low -power work mode. It is awakened only when sending data and operation. And it is in sleep mode at other times. The long standby time can bring greater convenience.

It is suitable for monitoring of transportation processes such as food, medicine, chemical products, can be used for real -time monitoring, and can also be used for data storage and extraction. It is widely used in all aspects of the logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated delivery boxes, etc.

2. Specification

Item	Details
Dimension	90mm*64mm*27mm
N.W	128g
Built-in battery	3.7V/3000mAh Lithium battery
GSM antenna	Built-in
Transmission mode	CAT1/GSM
Data storage capacity	Can store 20000 measurement data
Transmit interval	15mins
Temperature accuracy	±0.3℃
Humidity accuracy	±3%
Working temperature range	-20℃～+60℃
Working humidity range	0~85%
Power Consumption	Active mode (avg.) < 100mA Sleep mode (avg.) < 50uA
Band	LTE CAT1：LTE-FDD B1、B2、B3、B4、B5、B7、B8、B20、B28、B66 GSM：850/900/1800 /1900MHZ
Indicator	OK/Alarm
Usage type	Single use
Usage time	60 days（15mins interval）

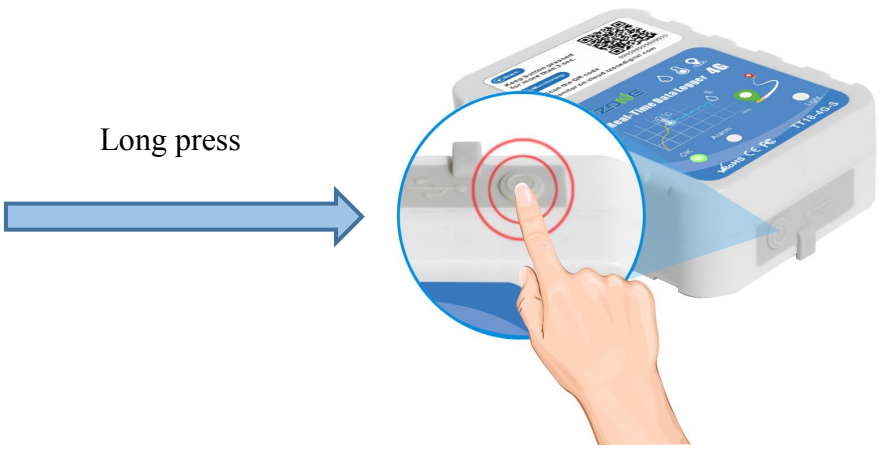
3. Product feature

Item	Functions
OK LED	Device status indicator (Green)
Alarm LED	Alarm light (Red)
Light sense	Detecting bright and dark changes
Button	Power on/Check Device Status
USB port	Connect to the computer to automatically generate PDF report

4. Operation and status

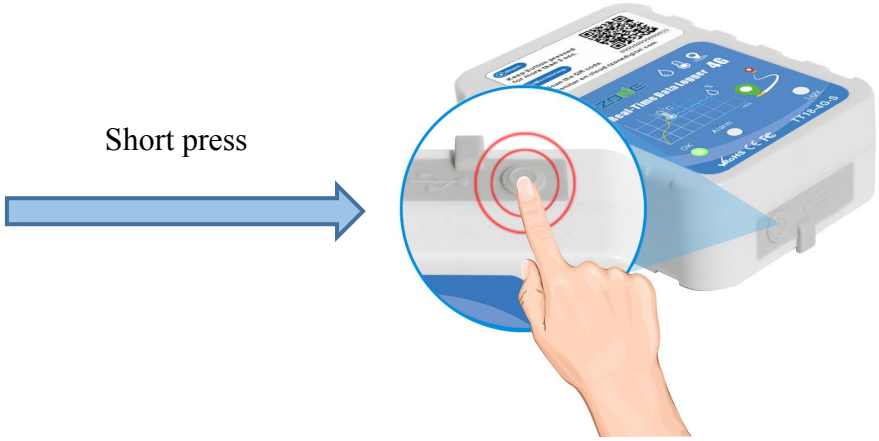
4.1 Turn on

After the user gets the device, it can be used directly. Long press the "Button" key for 3 seconds. The green light is keep on for 5 seconds. It means that the device has been turned on and data will be sent.



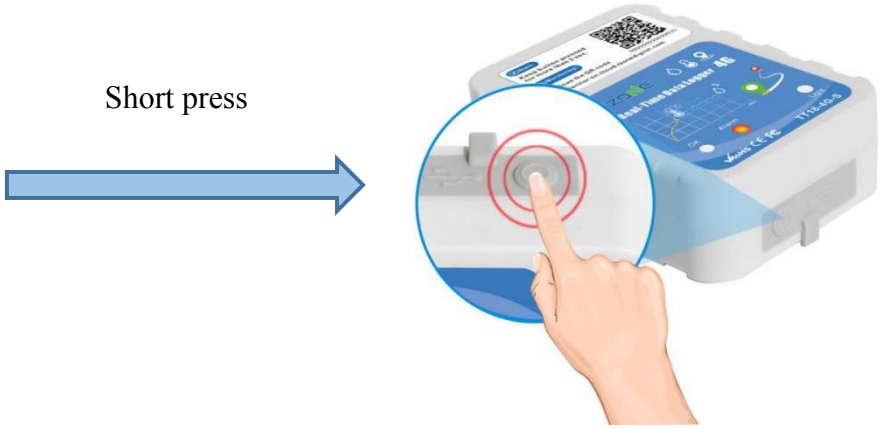
4.2 Normal operation

After turning on, the device will send data according to the set interval, and "OK LED" will flash a green light every 10 seconds or press the "Button" key "OK LED" to flash the green light once.



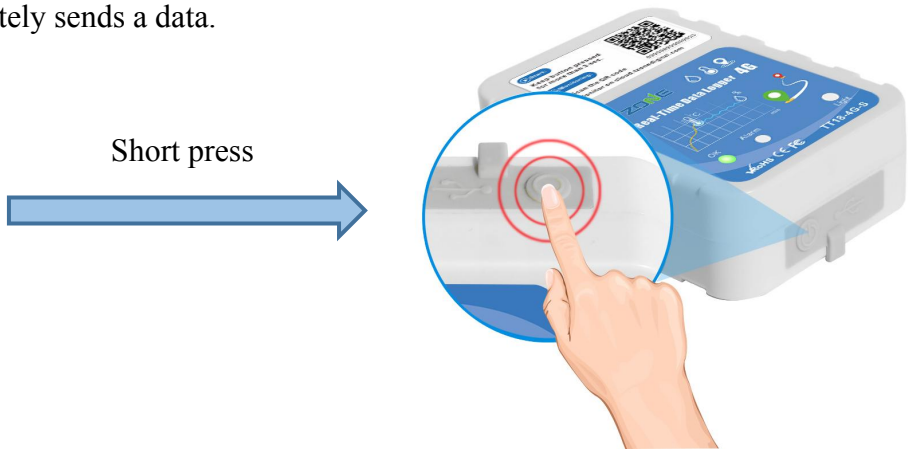
4.3 Alarm

After the temperature and humidity of the device collection exceed the set alarm range, the device will issue an alarm. "Alarm LED" will flash red lights every 10 seconds or press the "Button" key "Alarm LED" to flash the red light once.



4.4 Mark

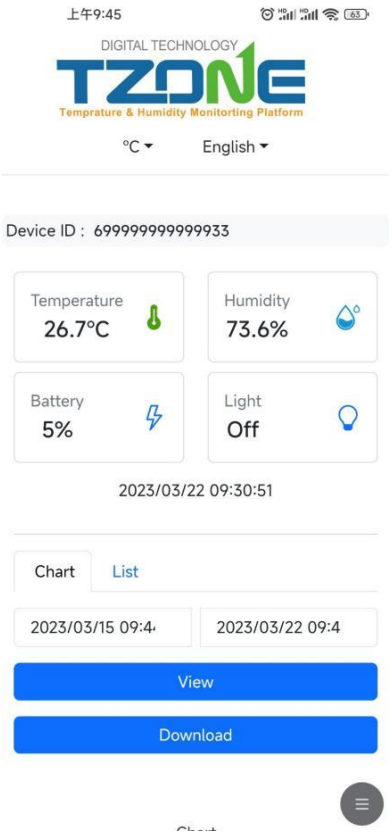
Short press the "Button" key when the device is dormant. The device is awakened and immediately sends a data.

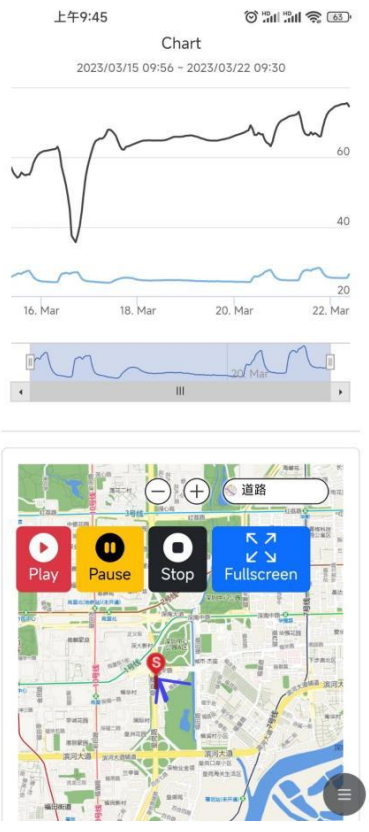


5. Data query

5.1 Mobile phone query

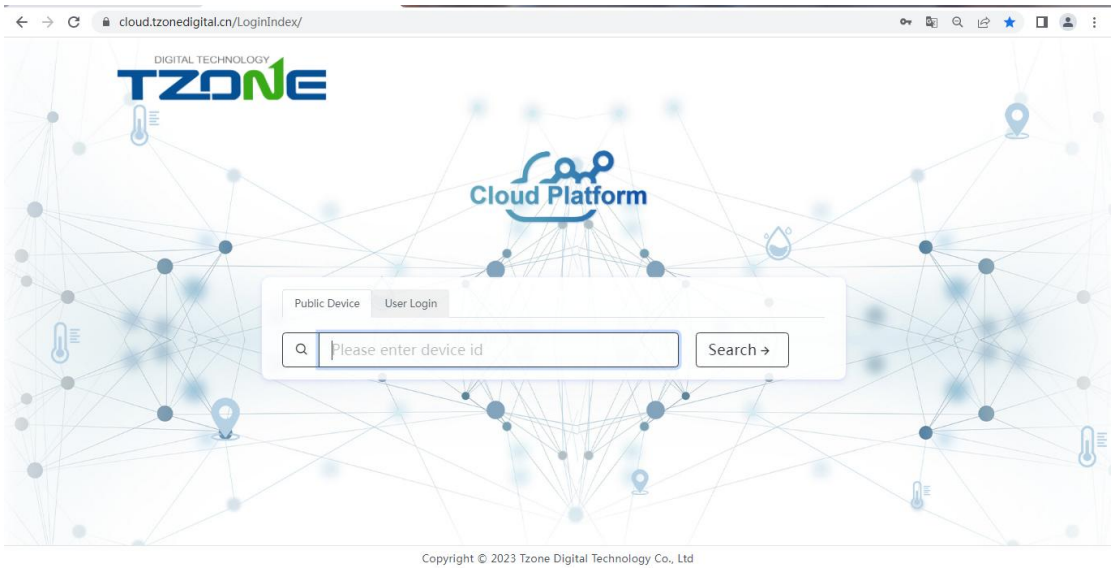
You can use a mobile phone camera or browser to scan the QR code on the device to enter the data interface. The figure below is the QR code and the data interface.





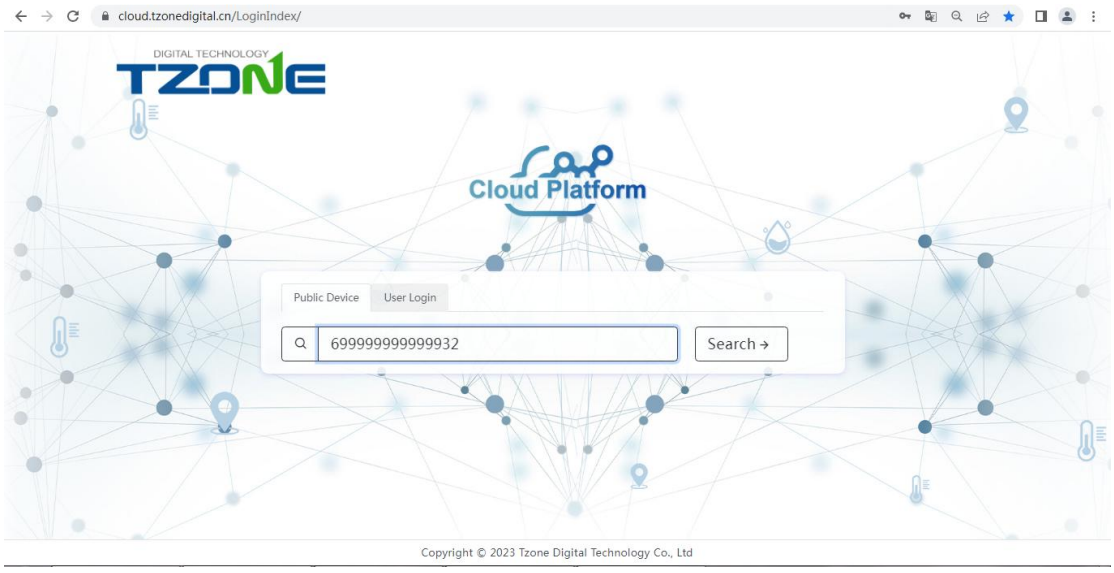
5.2 Browser query

Enter the data query interface after entering the URL in the browser. After entering the device ID, you can view this device data information.
TZONE temperature and humidity platform URL: http://cloud.tzonedigital.com/



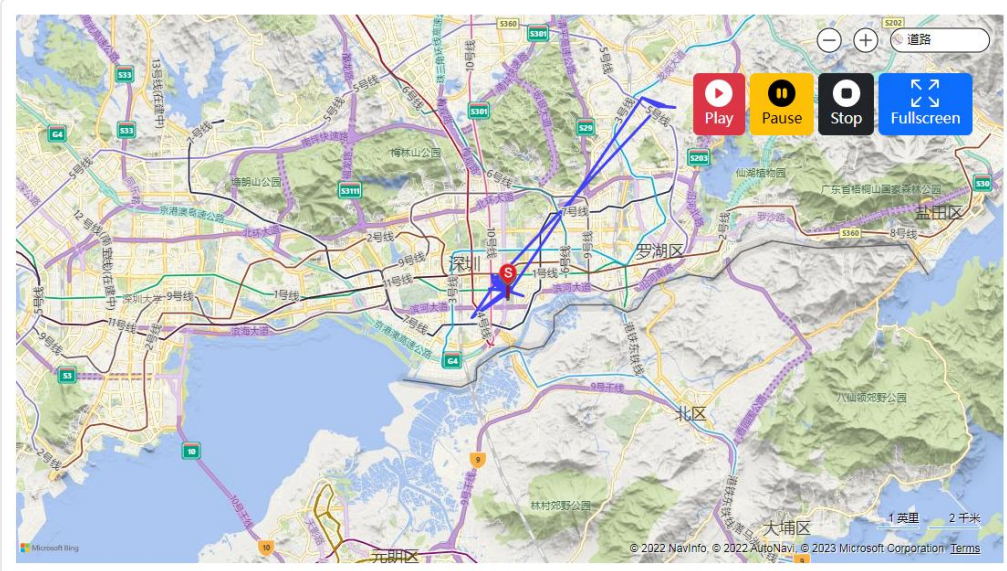
5.2.1 Enter device ID query

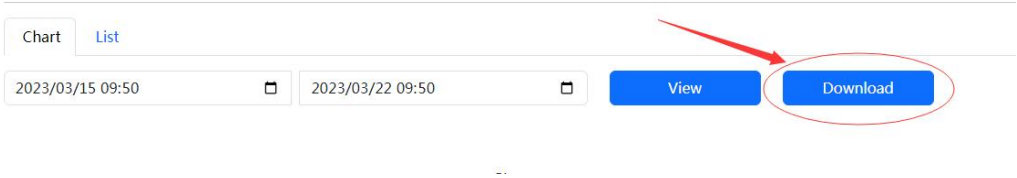
Fill in the device ID in the box, click "Search" to view this device data.



5.2.2 Check the data

After entering this interface, you can query real -time data, historical data charts, historical trajectories and download historical data.





6. PDF report data query

After using the USB cable provided by our company to connect the device with a computer, the computer will read the disk and automatically generate a PDF report. If the real-time data of the device cannot be queried, the historical data of the device can be viewed through the PDF report.

You can also download the PDF report on the cloud platform through browser.

DATA REPORT

ID: 699999999999933

File Information

File Created Date: 03/22/23 03:51:43
Note: All Times shown are based on UTC+0:00 and 24-Hour clock [MM/DD/YY HH:MM:SS]

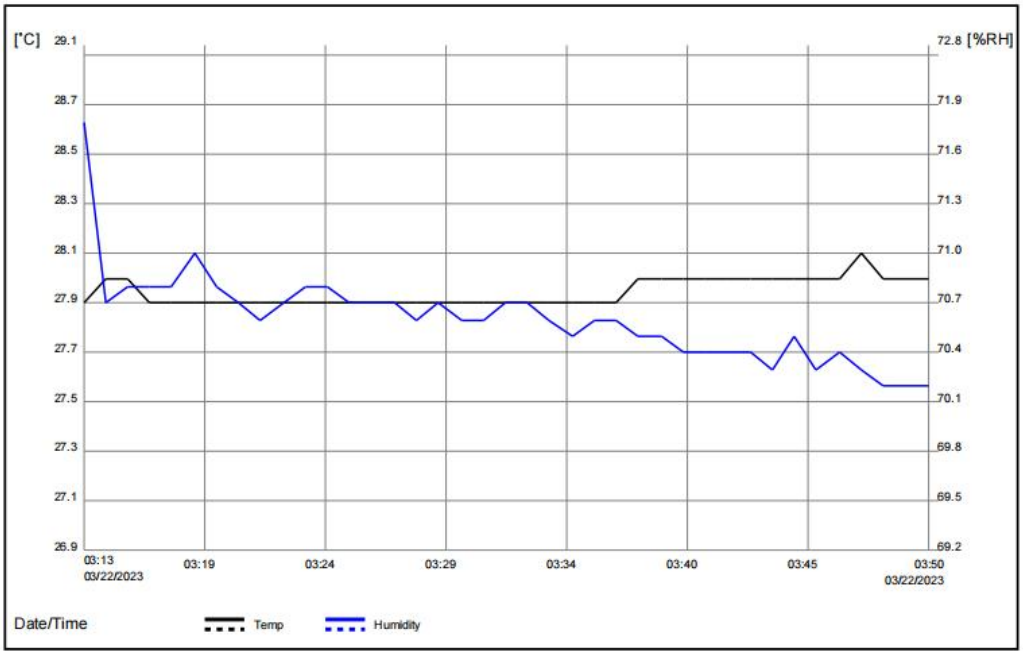
Device Information

Device Type: TT18D
ID: 699999999999933
Firmware Version: 3.05

Logging Summary

First Point: 03/22/23 03:13:49
Stop Time: 03/22/23 03:50:49
Number of Points: 38
Trip Length: 00d 00h 37m 00s

Max: 28.1°C(Temp)/71.8%RH(Humidity)
Min: 27.9°C(Temp)/70.2%RH(Humidity)
Average: 27.9°C(Temp)/70.6%RH(Humidity)
MKT: 27.9°C



Temperature&Humidity Table

Date	Time	°C	%RH	Date	Time	°C	%RH	Date	Time	°C	%RH	Date	Time	°C	%RH	Date	Time	°C	%RH
03/22/2023,	03:13:49	27.9	71.8																
03/22/2023,	03:14:49	28.0	70.7																
03/22/2023,	03:15:49	28.0	70.8																
03/22/2023,	03:16:49	27.9	70.8																
03/22/2023,	03:17:49	27.9	70.8																
03/22/2023,	03:18:49	27.9	71.0																
03/22/2023,	03:19:49	27.9	70.8																
03/22/2023,	03:20:49	27.9	70.7																
03/22/2023,	03:21:49	27.9	70.6																
03/22/2023,	03:22:49	27.9	70.7																
03/22/2023,	03:23:49	27.9	70.8																
03/22/2023,	03:24:49	27.9	70.8																
03/22/2023,	03:25:49	27.9	70.7																
03/22/2023,	03:26:49	27.9	70.7																
03/22/2023,	03:27:49	27.9	70.7																
03/22/2023,	03:28:49	27.9	70.6																
03/22/2023,	03:29:49	27.9	70.7																
03/22/2023,	03:30:49	27.9	70.6																
03/22/2023,	03:31:49	27.9	70.6																
03/22/2023,	03:32:49	27.9	70.7																
03/22/2023,	03:33:49	27.9	70.7																
03/22/2023,	03:34:49	27.9	70.6																
03/22/2023,	03:35:49	27.9	70.5																
03/22/2023,	03:36:49	27.9	70.6																
03/22/2023,	03:37:49	27.9	70.6																
03/22/2023,	03:38:49	28.0	70.5																
03/22/2023,	03:39:49	28.0	70.5																
03/22/2023,	03:40:49	28.0	70.4																
03/22/2023,	03:41:49	28.0	70.4																
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03/22/2023,	03:43:49	28.0	70.4																
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03/22/2023,	03:45:49	28.0	70.5																
03/22/2023,	03:46:49	28.0	70.3																
03/22/2023,	03:47:49	28.0	70.4																
03/22/2023,	03:48:49	28.1	70.3																
03/22/2023,	03:49:49	28.0	70.2																
03/22/2023,	03:50:49	28.0	70.2																