



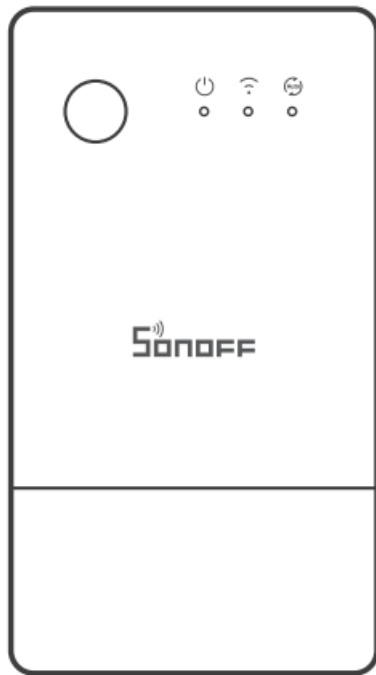
SONOFF THR316D Temperature and Humidity Sensor User Manual

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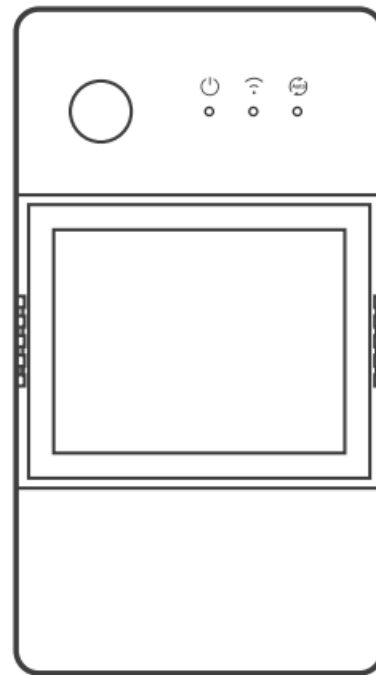


TH Origin /Elite
User manual V1.2





TH Origin



TH Elite

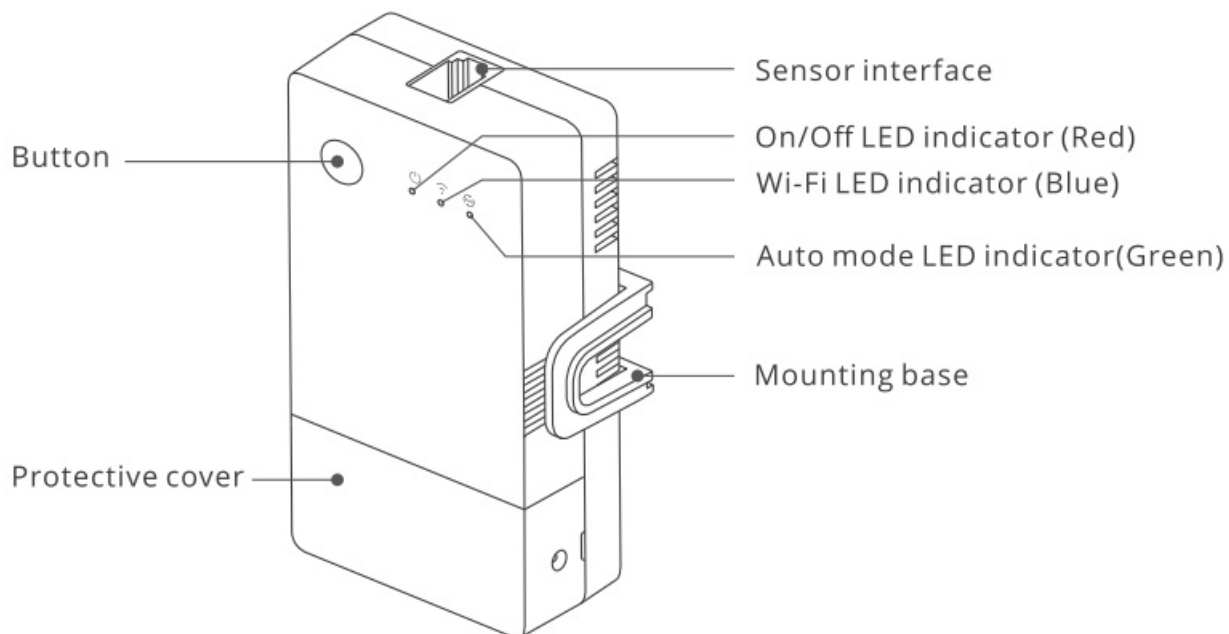
Smart Temperature and Humidity Monitoring Switch

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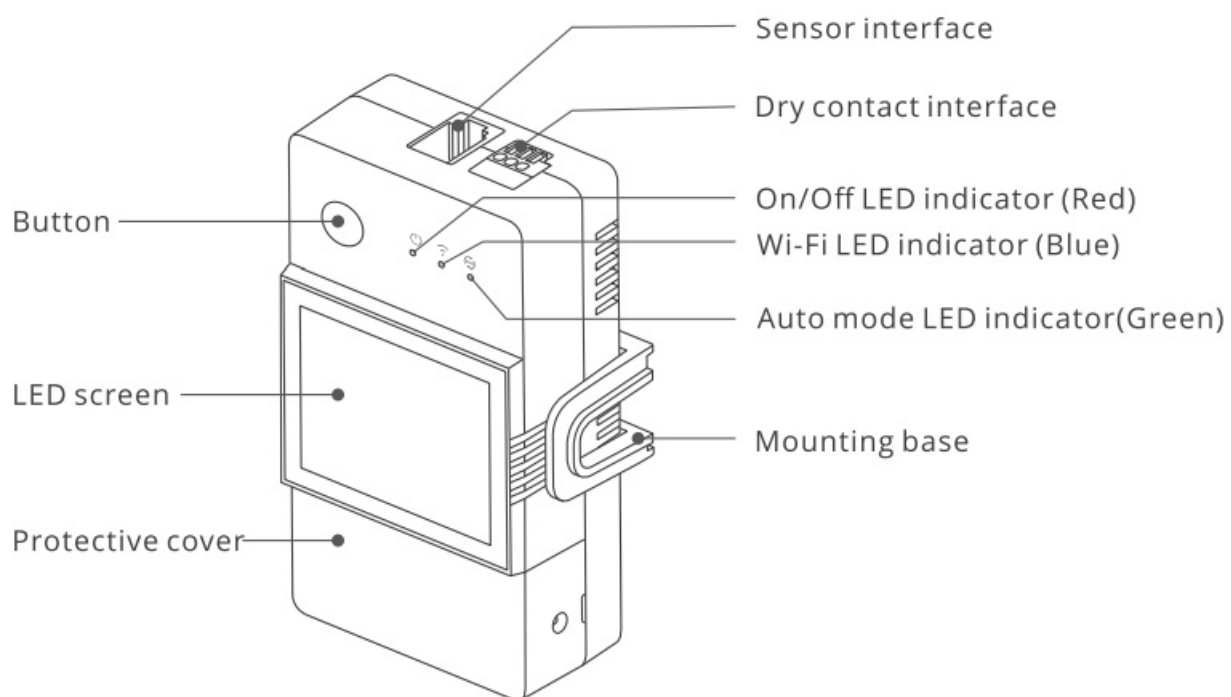
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Product Introduction

TH Origin



TH Elite



The device weight is less than 1kg.
The installation height of less than 2m is recommended.

Buttons instructions

Actions	Results
Single-click	Device on/off
Double-click	Auto-mode enable/disable
Long press for Ss	Enter the Pairing mode

LED indicator status instruction

LED indicator status	Status instruction
Blue LED indicator flashes(one long and two short)	Pairing mode
Blue LED indicator keeps on	Device is online
Blue LED indicator quick flashes once	Fail to connect to router
Blue LED indicator quick flashes twice	Connected to router but fail to connect to server
Blue LED indicator quick flashes three times	Firmware updating
Green LED indicator keeps on	Auto-mode is on

Features

TH Origin/Elite is a DIY smart switch with temperature and humidity monitoring, and required to use with the temperature and humidity sensors correspondingly.

Automatically control the channel switch by setting the temperature or humidity threshold on the App.



Sensing Control



Temp & Humi
History Data Graph



Automatic Mode



Share Control



Inching Mode



Voice Control



Timer Schedule



LAN Control



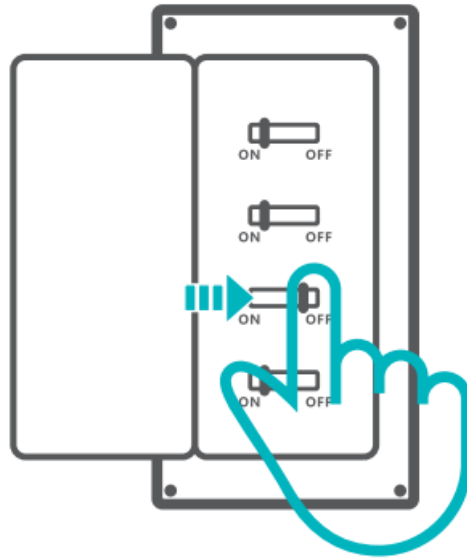
Wet & Dry Contact
(TH Elite)



Screen Display
(TH Elite)

Device Installation

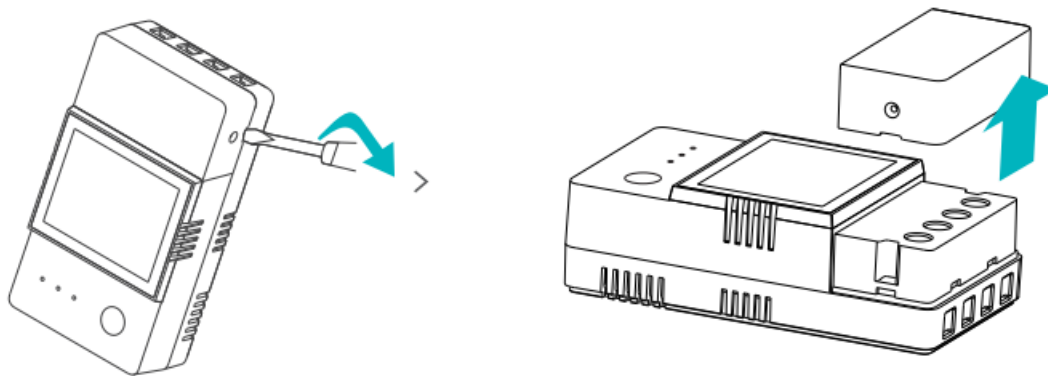
1. Power off



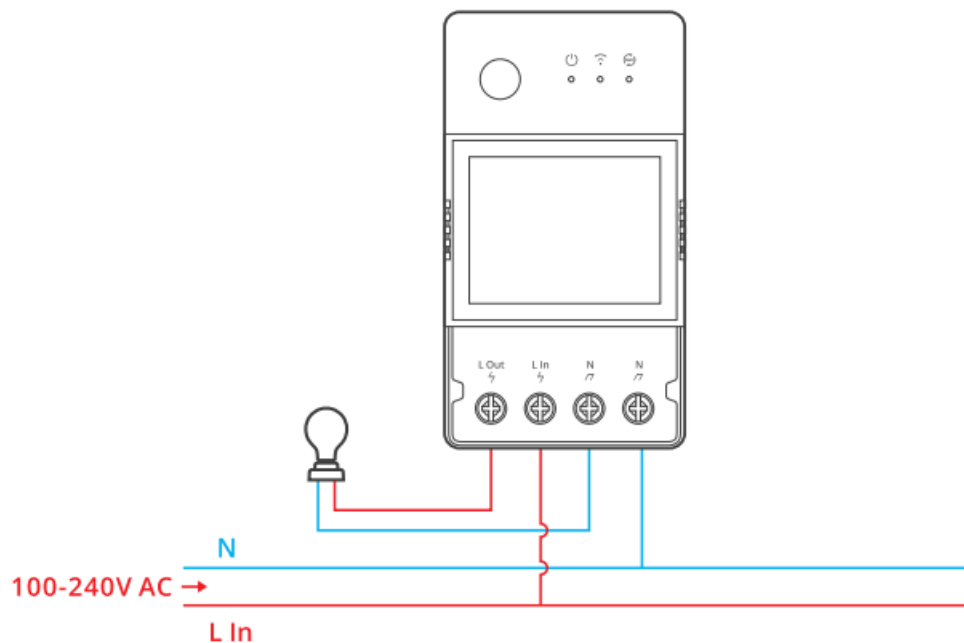
Please install and maintain the device by a professional electrician. To avoid electric shock hazard, do not operate any connection or contact the terminal connector while the device is powered on!

2. Wiring instruction

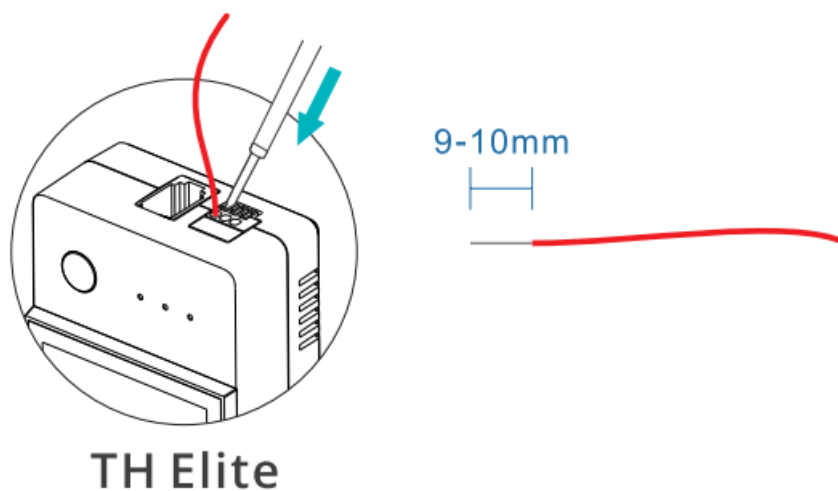
2-1 Remove protective cover



2-2



2-3 Wiring method of dry contact



Press the white button on the top of the wire connecting hole to insert the wire corresponding, then release.

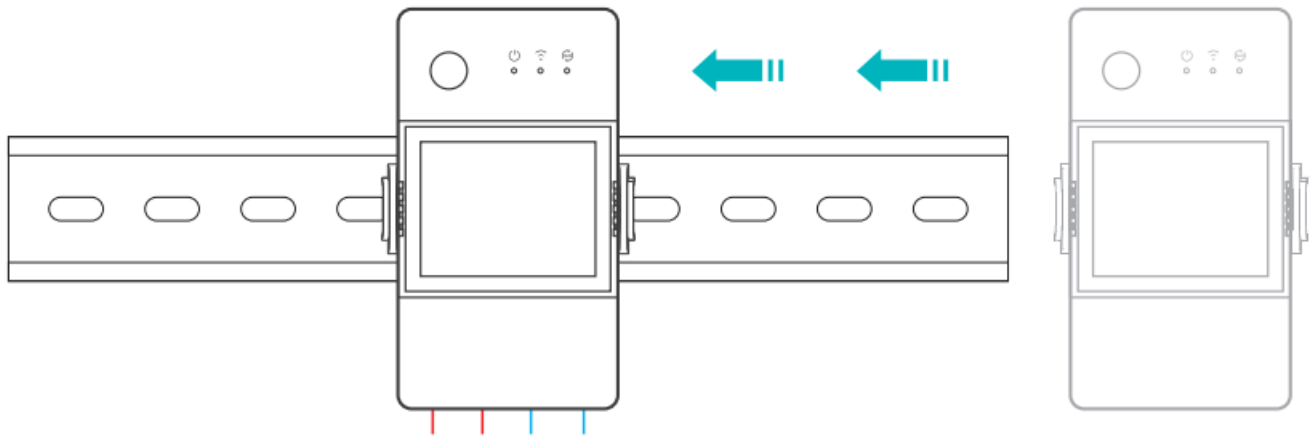


Dry contact wire conductor size: 0.13-0.5mm², wire stripping length: 9-10mm.



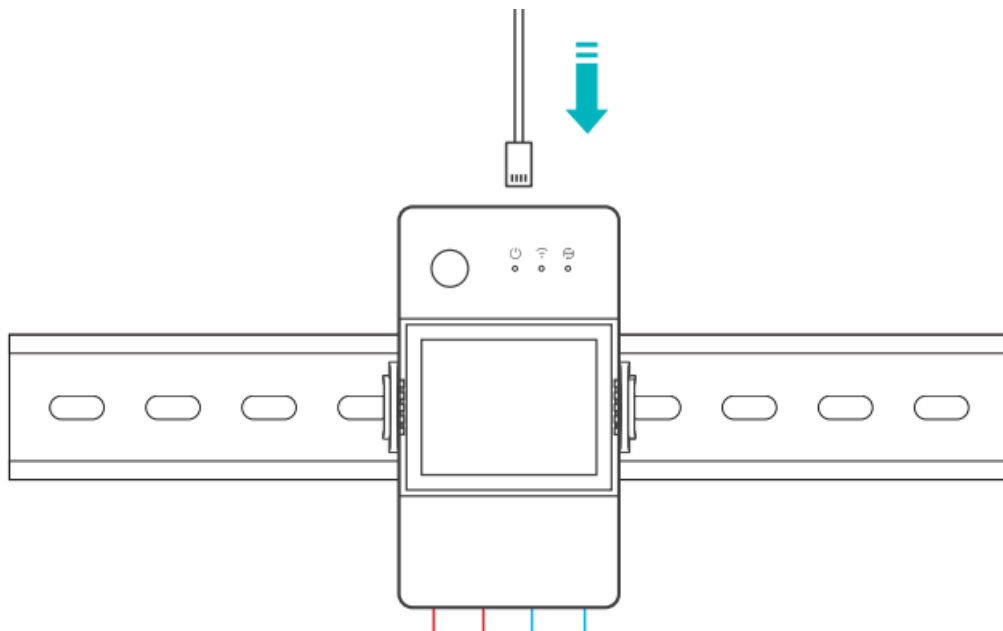
Make sure all wires are connected correctly.

2-435mm rail installation



First fix the guide rail at the position where the equipment needs to be installed, and then slide the device base buckle against the side of the guide rail.

3. Insert the sensor



Compatible SONOFF sensors: DS18B20, MS01, THS01, AM2301, Si7021.

Compatible sensor extension cables: RL560.



Some old version sensors need to be used with the accompanying adapter.

Device pairing

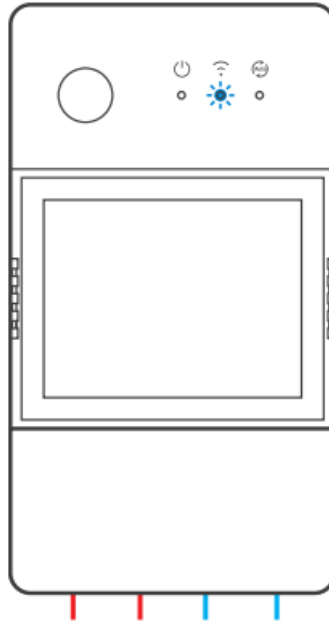
1. Download the eWeLink App



Android™ & iOS

<http://app.coolkit.cc/dl.html>

2. Power on



After powering on, the device will enter the Bluetooth Pairing Mode during the first use. The Wi-Fi LED indicator changes in a cycle of two short and one long flash and release.

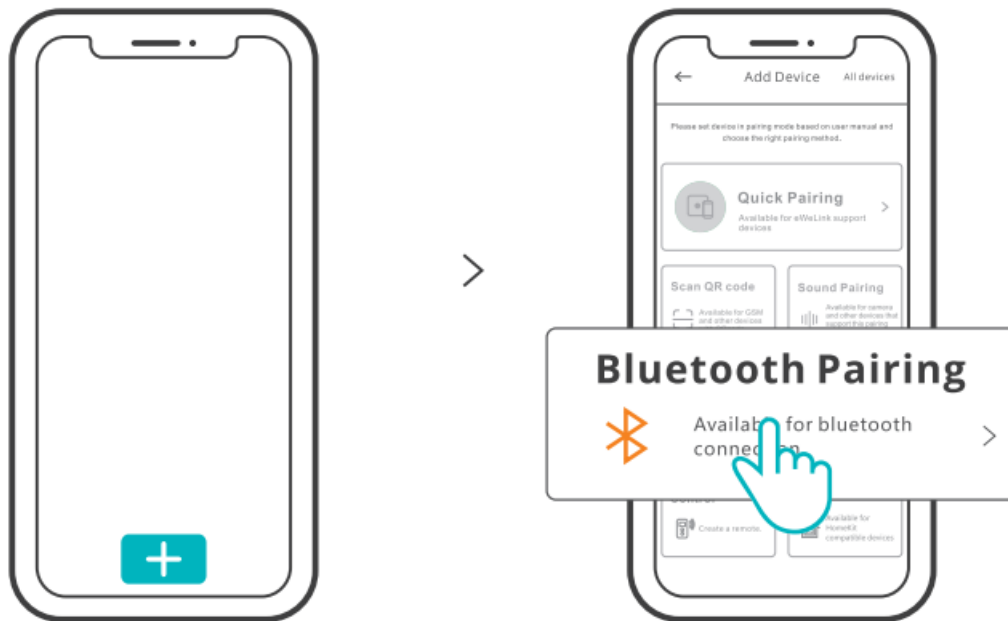


The device will exit the Bluetooth Pairing Mode if not paired within 3mins. If you want to enter this mode, please long press button for about 5s until the Wi-Fi LED indicator changes in a cycle of two short and one long flash and release.

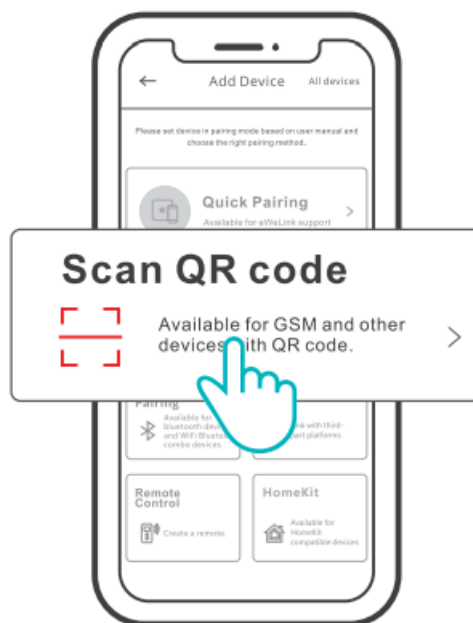


3. Add device

Method 1: Bluetooth Pairing



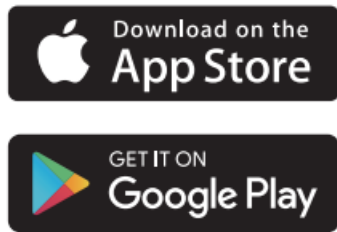
Tap “+” and select “Bluetooth Pairing”, then operate following the prompt on the App.
Method 2: Scan QR code



In the Pairing mode, tap “Scan QR code” to add the device by scanning the QR code on its back.

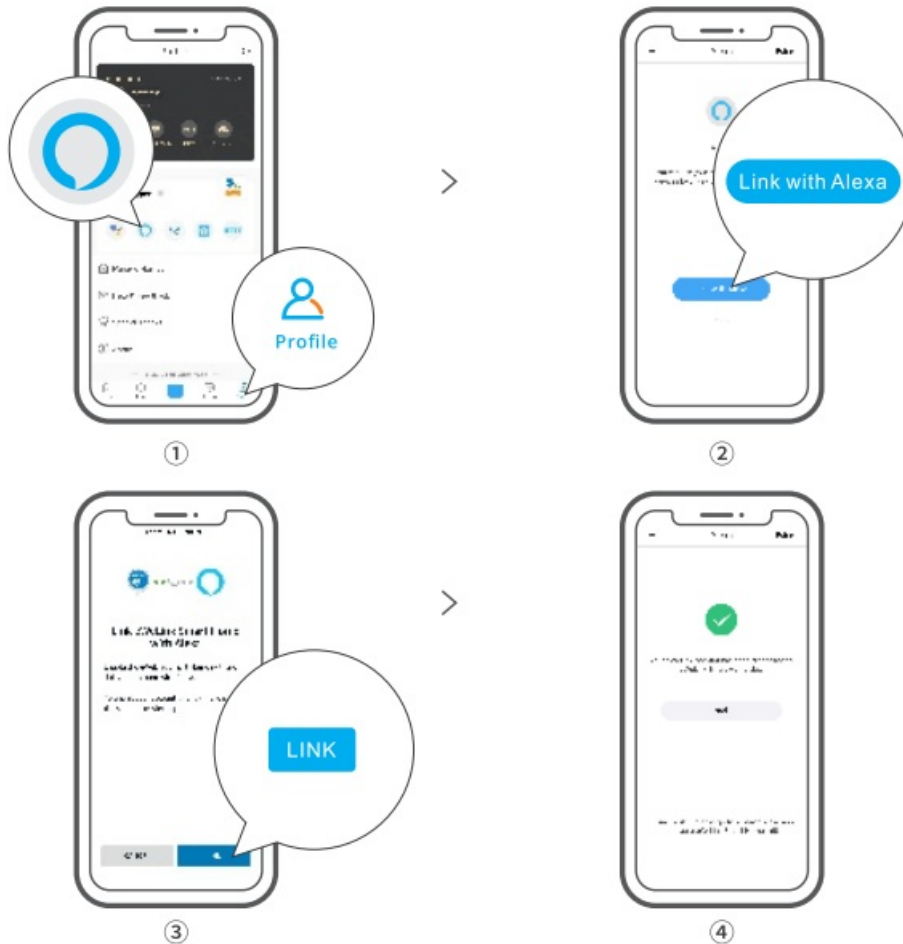
Alexa voice control instructions

1. Download the Amazon Alexa App and sign up an account.



Amazon Alexa

2. Add Amazon Echo Speaker on the Alexa App.
3. Account Linking (Link Alexa account on the eWeLink App)



4. After linking the accounts, you can discover devices to connect on the Alexa App according the prompt.



Account linking method of Google Assistant, Xiaodu, Tmall Genie, Mate Xiaoai and etc is similar., the guides on the App shall prevail.

Specifications

Model	THR316, THR320, THR316D, THR320D
Input	THR316, THR316D: 100-240V — 50/60Hz 16A Max THR320, THR320D: 100-240V — 50/60Hz 20A Max
Output	THR316, THR316D: 100-240V — 50/60Hz 16A Max THR320, THR320D: 100-240V — 50/60Hz 20A Max
Dry contact output	5-30V. 1A Max
Wi-Fi	IEEE 802.11 b/g/n 2.4GHz
LED screen size	THR316D, THR320D: 43x33mm
App supported systems	Android & iOS
Operating temps	10T40 (-10°C-40°C)
Working humidity	5%-95% RH, non-condensing
Shell material	PC VO
Dimension	THR316, THR320: 98x54x27.5mm THR316D, THR320D: 98x54x31 mm
High voltage connector wire	THR316, THR316D: 1.0mm ² to 4.0mm ² THR320, THR320D: 1.5mm ² to 6.0mm ²
Rated impulse voltage	2500V
Remark	External preliminary protection with Max. C 20 A circuit breaker in the supply line required under all circumstances.

LAN control

A communication method to control the devices directly without going through the Cloud, which requires your smartphone and device connect to the same WIFI.



Operation notifications, operation records, firmware upgrades, smart scenes, devices sharing and devices delete are not supported when there is no external network connection,

Control modes

Manual mode: Turn on/off the device through the App and device itself whenever you want.

Auto mode: Turn on/off the device automatically through presetting the threshold of temperature and humidity.



Auto mode setting: Set the threshold of temperature & humidity and effective time period, you can set up 8 automatic control programs in different time periods

Auto mode enable/disable

Enable/disable the auto mode by double click the button on the device or enable/disable it on the App directly.



Manual control and Auto mode can work at the same time. In the auto mode, you can turn on/off the device manually. After a while, auto mode will resume execution if it detects changes in temperature and humidity.

Factory Reset

Deleting the device on the eWeLink app indicates you restore it to factory setting.

Common Problems

Fail to pair Wi-Fi devices to eWeLink APP

1. Make sure the device is in pairing mode. After three minutes of unsuccessful pairing, the device will automatically exit pairing mode.
2. Please turn on location services and allow location permission. Before choosing the Wi-Fi network, location services should be turned on and location permission should be allowed. Location information permission is used to obtain Wi-Fi list information. If you click Disable, you will not be able to add devices.
3. Make sure your Wi-Fi network runs on the 2.4GHz band.
4. Make sure you entered a correct Wi-Fi SSID and password, no special characters contained. Wrong password is a very common reason for pairing failure.
5. The device shall get close to the router for a good transmission signal condition while pairing.

Wi-Fi devices "Offline" issue , Please check the following problems by the Wi-Fi LED indicator status:
The LED indicator blinks once every 2s means you fail to connect to the router.

1. Maybe you entered the wrong Wi-Fi SSID and password.
2. Make sure that your Wi-Fi SSID and password don't contain special characters, for example, the Hebrew, Arabic characters, our system can't recognize these characters and then fail to connect to the Wi-Fi.
3. Maybe your router has a lower carrying capacity.
4. Maybe the Wi-Fi strength is weak. Your router is too far away from your device, or there may be some obstacle between the router and device which blocks the signal transmission.

The LED indicator flashes twice on repeated means you fail to connect to the server.

1. Make sure the Internet connection is working. You can use your phone or PC to connect to the Internet, and if it fails to access, please check the availability of the Internet connection.
2. Maybe your router has a low carrying capacity. The number of devices connected to the router exceeds its maximum value. Please confirm the maximum number of devices that your router can carry. If it exceeds, please delete some devices or get a larger router and try again.

If none of the above methods solved this problem, please submit your request via help&feedback on the eWeLink App.

FCC Warning

Changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Hereby, Shenzhen Sonoff Technologies Co., Ltd. declares that the radio equipment type THR316, THR320, THR316D, THR320D are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://sonoff.tech/usermanuals>

Operation frequency Range:

2402-2480MHz(BLE)

2412-2472MHz(Wi-Fi)

RF Output Power: 8.36dBm(BLE)

18.56dBm(802.11b), 17.93dBm(802.11g), 19.23dBm(802.11n20), 19.44dBm(802.11n 40)(Wi-Fi)



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Website: sonoff.tech

MADE IN CHINA



Documents / Resources

The image shows the cover of the Sonoff TH Origin / Elite User Manual V1.2. It features the Sonoff logo at the top left, followed by the product name "TH Origin / Elite" and "User manual V1.2". Below this are two small images of the device: a white "TH Origin" and a black "TH Elite". At the bottom, it says "Smart Temperature and Humidity Monitoring Switch".	<p>SONOFF THR316D Temperature and Humidity Sensor [pdf] User Manual</p> <p>THR316D Temperature and Humidity Sensor, THR316D, Temperature and Humidity Sensor, Humidity Sensor</p>
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