

# Sinilink XY-WFTX WIFI Remote Thermostat Module Temperature controller module refrigeration and heating high and low temperature alarm

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Sinilink

## WIFI Remote thermostat

- Heating/cooling •
- High and low temperature alarm •

**upgrade**  
digital tube display

**Mobile APP**  
**Sinilink control**  
Support Android and IOS

**Email notification**

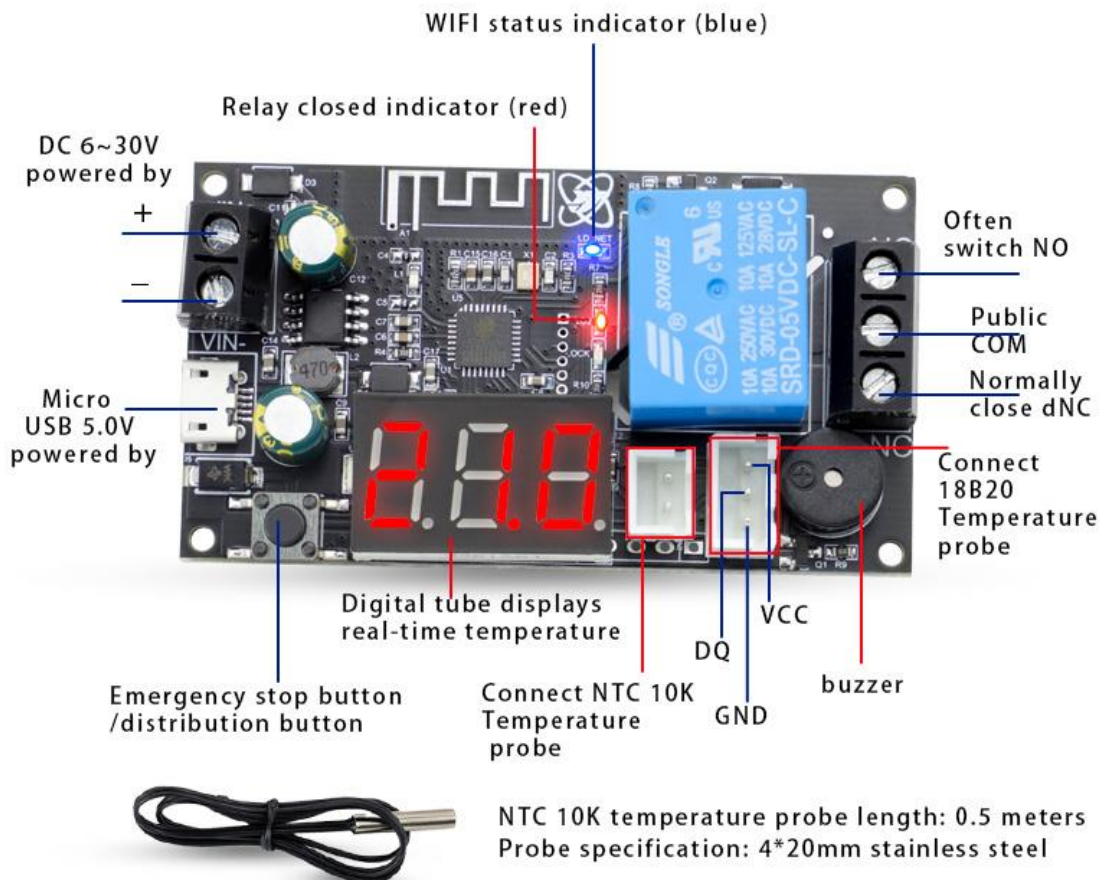
Operation log  
Cloud recording

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# 1. Product Parameter





**Note: 1. The product defaults with NTC waterproof sensor, without 18B20 digital sensor**

**2. When the 18B20 sensor is connected, the temperature will automatically switch to the 18B20 test temperature**

- 1) Power supply voltage: DC6.0V~30V, supports micro USB 5.0V power supply;
- 2) Temperature control range: -40°C ~110°C;
- 3) Temperature control accuracy: 0.1°C;
- 4) Measurement input: NTC10K length of 0.5 m, waterproof type, supporting 18B20 digital sensor access;
- 5) Refresh frequency: 1 second;
- 6) Output type: 10A relay output (relay equivalent to switch, only switch, not external output voltage);

## Product parameter information comparison table

Product number	XY-WFT1	XY-WFTX
Product Image		
temperature display	NO	digital tube display
Supply voltage	DC 6 ~ 30V	
USB powered	support	
Temperature control range	-40 ~ 110°C	
Temperature control accuracy	0.1°C	
NTC Temperature measurement range	Below 60°C	-40 ~ 110°C
Yes/No support 18B20	support(-40 ~ 110°C)	
output type	Relay switch, current less than 10A	
Alarm notification	Support WeChat alarm notification	
Cloud data logging	15 days cloud record, can be exported at any time	
Timer switch function	support	

## 2. Automatic mode description

### Automatic mode

The screenshot shows the 'Control device' interface for a WFT1 temperature controller. The main display shows the current temperature at 28.1°C and the device is in 'Heat' mode. The interface is annotated with the following callouts:

- Unit switch Celsius/Fahrenheit:** Points to the temperature unit selection (°C and °F).
- Auto/manual mode:** Points to the 'Auto' and 'LED' toggle switches.
- Temperature correction:** Points to the 'TEMP' section header.
- Current Temperature:** Points to the 'Cur: 28.1 °C' display.
- Set temperature and hysteresis:** Points to the 'Set Temp: 30.0 °C' and 'Back Temp: 5.0 °C' fields.
- High and low temperature alarm settings:** Points to the 'High Temp: 100.0 °C' and 'Low Temp: -40.0 °C' settings.
- Emergency braking function:** Points to the 'E-Stop Timer', 'Delay', and 'Circle' icons.
- LAN data And export:** Points to the 'LAN data' and 'Export' options in the 'Trend' section.
- Sharing settings:** Points to the 'Share' icon.
- Operation record:** Points to the 'OP Log' icon.
- Cloud recording function:** Points to the 'Cloud records' icon.
- Set upload frequency:** Points to the 'Upload set' icon.
- Firmware version Remote firmware upgrade:** Points to the 'firmware:V1.2.9' and 'It's the latest' text.
- E-mail notification switch on switch off:** Points to the 'Wechat | Email Notice' toggle.
- Current state:** Points to the 'State: (Stop heating)' indicator.
- Select mode:** Points to the 'Heat' and 'Cool' mode buttons.
- Delay start setting:** Points to the 'Delay: 0 s' field.

## 2.1 Automatic mode function description

- 1) The 1) first selects the heating mode / cooling mode;
- 2) sets the temperature and return difference. If the delay start is required, set the delay start time
- 3) If high and low temperature alarm is required, set high and low temperature alarm threshold

## 2.2 Heating mode description

**When the detection temperature (current temperature)  $\leq$  sets temperature-return temperature, relay leads on and heating equipment starts working;**

**When the detection temperature (current temperature)  $\geq$  sets the temperature, the relay is disconnected and the heating equipment stops working;**

For example: set temperature 30°C and return temperature 5°C;

When the temperature is 20°C  $\leq$  25°C (30-5 = 25), the relay suction starts heating, when the temperature reaches 30°C  $\geq$  the set temperature is 30°C, the relay is disconnected and stops heating;

## 2.3 Refrigeration mode description

**Detection temperature (current temperature)  $\geq$  set temperature + return temperature, relay leads on and refrigeration equipment starts working;**

**When the detection temperature (current temperature)  $\leq$  sets the temperature, the relay is disconnected and the refrigeration equipment stops working;**

For example: set temperature 30°C and return temperature 5°C;

When the temperature is 36°C  $\geq$  35°C (30 + 5 = 35), the relay suction starts refrigeration, when the temperature reaches 30°C  $\leq$  the set temperature is 30°C, the relay is disconnected and the cooling is stopped

## 2.4 Description of the time-delay startup function

How long is the delay (unit: seconds) after the first heating / cooling process will allow the next heating / cooling;

## 2.5 Temperature correction function

**The system is working for a long time and may appear deviation. Through this function correction, the current temperature = measures the temperature + calibration value;**

## 2.6 High-and low-temperature alarm function

buzzer on and off: on, the buzzer will sound after the alarm. After pressing the button, the buzzer stops sounding;

High temperature alarm: After the high temperature alarm is opened, after the current temperature is higher than the high temperature alarm temperature, the relay is disconnected;

Low temperature alarm: After opening the low temperature alarm, after the current temperature is below the low temperature alarm temperature, the relay is disconnected;

## **2.7 Emergency braking function (Emergency stop function)**

After the emergency stop, the relay will be disconnected in whatever state; after the emergency stop is closed, the relay returns to normal state;

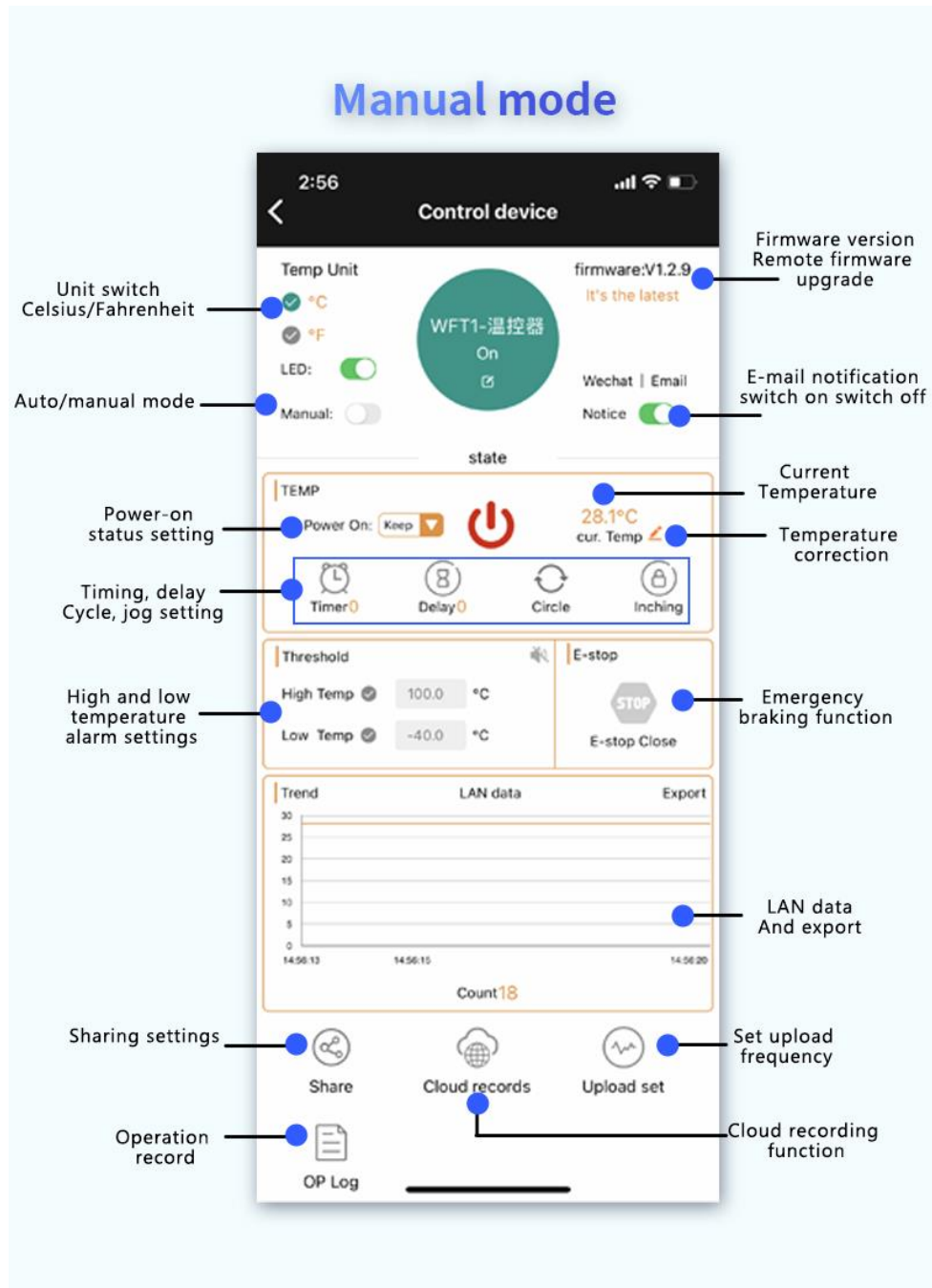
## **2.8 Whether the product can be run offline in automatic mode**

In automatic mode, when the parameters are set, the product can run off the network offline, the parameter power loss is not lost.

## **2.9 The LAN data export function**

A temperature data is transmitted on the LAN in 1 second. Click "Export", it is automatically exported to the EXCEL to analyze the temperature data

### 3.Manual mode description





### **3.1 Manual mode function description**

Timing, delay, cycle and point can be set in manual mode;

### **3.2 Description of power status setting**

Upper charging state-on: default suction of the relay after charging;

Up state-off: the relay is switched off by default;

Power up-hold: automatically restore the relay state after power up

### **3.3 Can the product be run offline in manual mode**

In manual mode, the product can not run offline.。

### **3.4 Additional functional description in manual mode**

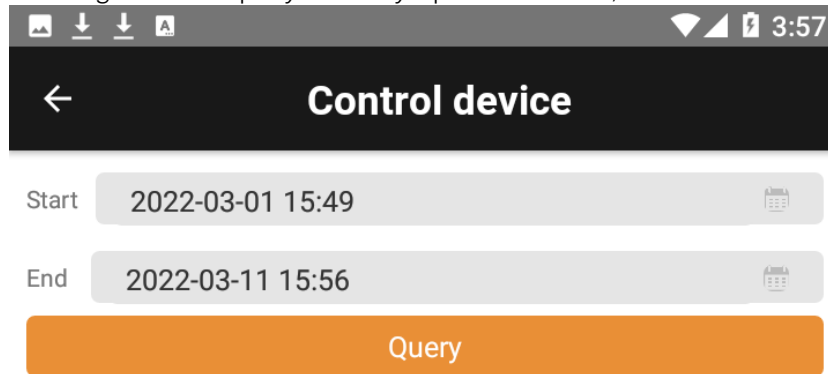
Other features are the same as in automatic mode

## **4. Share the settings**

Can be shared with others, that many people share a device, can control its functions.

## 5.operation note

All operation records can be stored in the background, and the + timer + button + APP + heating and cooling mode to query the relay operation status;



The screenshot shows a mobile application interface titled "Control device". At the top, there is a navigation bar with a back arrow and the title. Below the title, there are two input fields for "Start" and "End" dates and times. The "Start" field is set to "2022-03-01 15:49" and the "End" field is set to "2022-03-11 15:56". Below these fields is a prominent orange button labeled "Query".

Note: cloud records can be kept for up to 15 days

Type	Time	Execute
RESTART	2022-03-09 11:02:41	Relay OFF
HOT	2022-03-09 10:59:39	Relay ON
RESTART	2022-03-09 10:58:56	Relay OFF
RESTART	2022-03-09 10:16:50	Relay OFF
RESTART	2022-03-08 15:07:09	Relay OFF
COLD	2022-03-08 00:43:02	Relay OFF
HOT	2022-03-07 11:04:54	Relay ON
Alarm_OTP	2022-03-04 08:53:42	Relay OFF
HOT	2022-03-03 12:43:29	Relay ON
KEY	2022-03-03 11:55:13	E-stop Close
KEY	2022-03-03 11:55:09	E-stop Open
HOT	2022-03-03 11:34:03	Relay OFF
HOT	2022-03-02 14:40:02	Relay ON
RESTART	2022-03-02 14:00:04	Relay OFF
HOT	2022-03-02 13:49:19	Relay OFF
KEY	2022-03-02 13:49:06	E-stop Close
RESTART	2022-03-02 13:42:26	Relay OFF
RESTART	2022-03-02 13:34:57	Relay OFF
HOT	2022-03-02 13:28:32	Relay ON
RESTART	2022-03-02 12:01:42	Relay OFF

Click load more

# 6.Cloud recording and upload frequency

## 6.1 Set upload rate

Temperature data can be stored in the background, the frequency of log upload can be set for 1 second / bar (one default 5 minutes); the data can be inquired for any time period at will and retain data within 15 days at the maximum period; the cloud data export function can be added to make the next analysis of the temperature data;

2:57 Control device

Start 2021-08-10 14:50

End 2021-08-18 14:57

Query

Note: cloud records can be kept for up to 15 days

Serial	Time	Temp(°C)
1	2021-08-18 14:44:32	28.1
2	2021-08-18 14:39:32	28.0
3	2021-08-18 14:34:32	28.0
4	2021-08-18 14:29:32	27.9
5	2021-08-18 14:24:32	27.9
6	2021-08-18 14:19:32	27.9
7	2021-08-18 14:14:32	27.9
8	2021-08-18 14:09:32	27.9
9	2021-08-18 14:04:32	27.9
10	2021-08-18 13:59:32	27.9
11	2021-08-18 13:54:32	27.9
12	2021-08-18 13:49:32	27.8
13	2021-08-18 13:44:32	27.9
14	2021-08-18 13:39:32	27.8
15	2021-08-18 13:34:32	27.7
16	2021-08-18 13:29:31	27.9
17	2021-08-18 13:24:31	27.8
18	2021-08-18 13:19:31	27.9

2:58 Control device

Start 2021-07-01 14:50

End 2021-08-18 14:57

Query

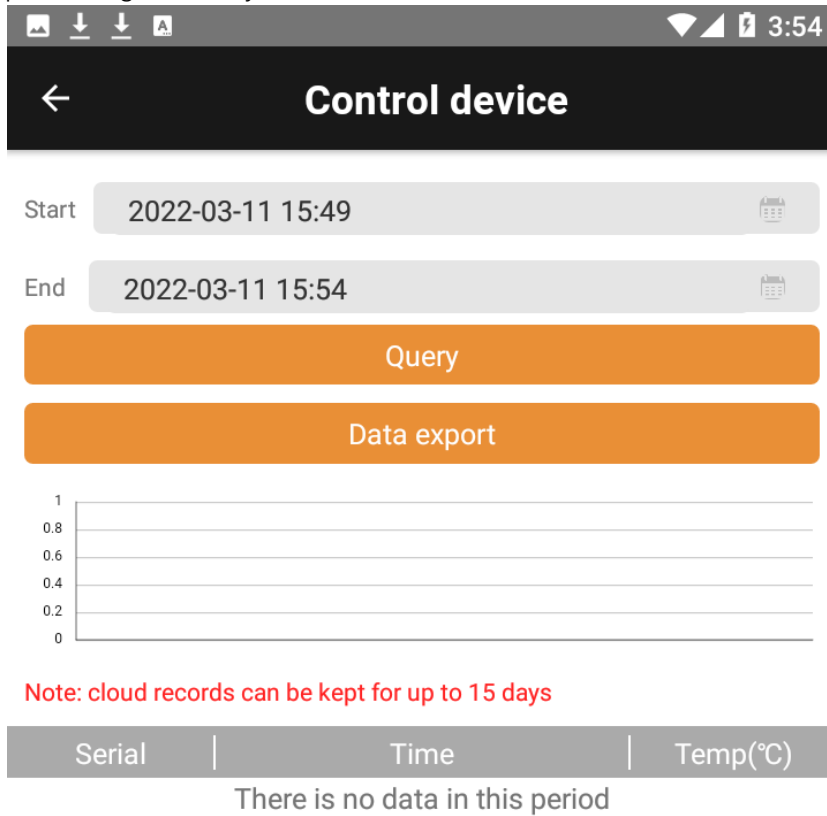
Note: cloud records can be kept for up to 15 days

Serial	Time	Execute
INCHING	2021-08-18 14:55:51	Relay OFF
APP	2021-08-18 14:55:46	Relay ON
APP	2021-08-17 09:31:36	Relay OFF
APP	2021-08-17 09:31:33	Relay ON
RESTART	2021-08-16 08:04:22	Relay OFF
RESTART	2021-08-09 08:05:55	Relay OFF
APP	2021-08-07 09:43:50	Relay OFF
APP	2021-08-07 09:43:49	Relay ON

Click load more

## 6.2 Cloud data export

You can choose to export data for any period of time within 15 days and save it locally for later data processing and analysis;



The screenshot shows a mobile application interface for a 'Control device'. At the top, there is a status bar with icons for signal, Wi-Fi, battery, and the time 3:54. Below the status bar is a black header with a back arrow and the text 'Control device'. The main content area has two date-time pickers: 'Start' set to '2022-03-11 15:49' and 'End' set to '2022-03-11 15:54'. Below these are two orange buttons: 'Query' and 'Data export'. Underneath the buttons is a line graph with a y-axis ranging from 0 to 1.0 in increments of 0.2. Below the graph, a red note states: 'Note: cloud records can be kept for up to 15 days'. At the bottom, there is a table header with columns 'Serial', 'Time', and 'Temp(°C)'. Below the header, the text 'There is no data in this period' is displayed.

Serial	Time	Temp(°C)
There is no data in this period		

# 7. Key button function and indicator light status

## 7.1 Keybutton function

Short press:

On / off the relay in manual mode;

In automatic mode, turn the emergency stop function on / off

**Note: under the buzzer alarm state, briefly press the key to cancel the buzzer alarm, and do not perform other actions;**

Press for 5 seconds: switch the pairing mode Touch/AP, to let the product into the pairing state;

## 7.1 Description of the indicator lamp function

Blue indicator lamp: the network status indicator lamp

1. is not connected to the router: bright 1S out of 0.1S so reciprocating;

2. link router but not connected: flash once, flash once so backwards;

3. Touch pairing mode: flash 4 times and then wait 1S so reciprocating;

4. AP pairing mode: blue light continuous flash;

5. networking success: the blue indicator light is always on;

Green indicator lamp: touch on and emergency stop indicator lamp

Turn on the emergency stop, and the green indicator light will flash;

In manual mode, if the green indicator is on

Red indicator lamp: relay status indicator lamp;

# 8. Mail notification function:

## 8.1 How to bind a mailbox

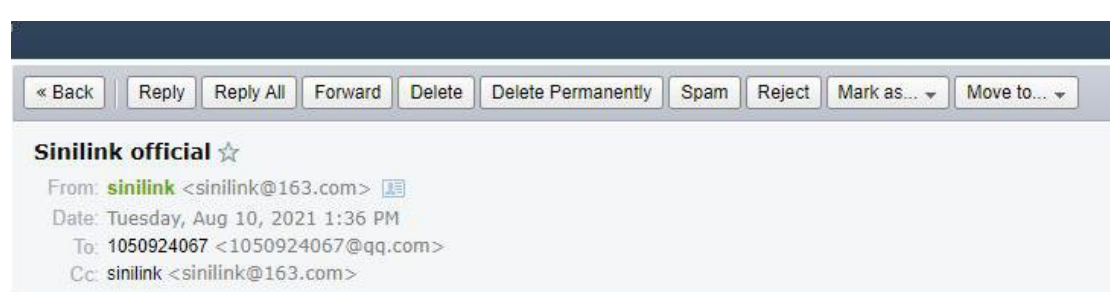
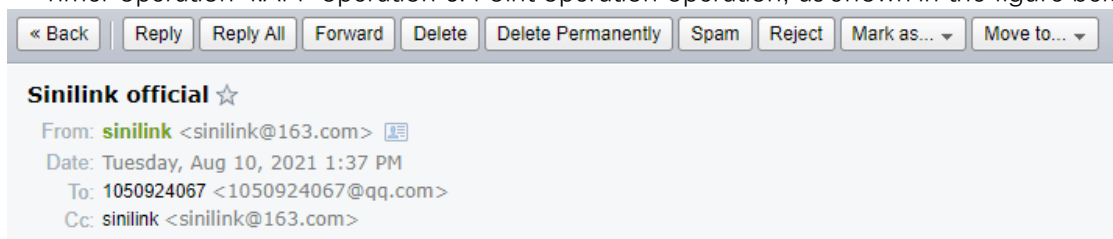
Turn on the mail notification



1. Open the APP into the device operation interface, the top left corner is the switch of the mail notification function; if the email notification is turned on, when the computer status sends the change will send the latest status and operation type of the computer in real time through the mailbox used to register the APP;

Operation types are divided into five types: 1. Equipment power 2. Key operation 3.

Timer operation 4.APP operation 5. Point operation operation; as shown in the figure below



## 8.2 Turn on the mailbox notification function for the device

1. opens sinilink APP, to find the added thermostat device and enter the operation interface; There is a "WeChat | Mail Notification" switch in the top right corner of the 2., set to "open" to receive the email notification of the product;

The 3. mailbox notification type

High temperature and high high temperature alarm is lifted

Too low temperature and low temperature alarm is discharged

Sensor abnormal sensor abnormal abnormally

Start the heating and stop the heating

Start refrigeration and stop cooling

# 9. How to distribute the distribution network

## 9.1 TouchTouch mode

1. Press the product button for more than 5 seconds to let the product into the Touch pairing state (the blue lights flash 4 times quickly and extinguish 1S so reciprocating)
2. The APP operation is as shown below:

**Product networking steps**

**First step**

Click on the small plus sign

**Second step**

Select the pairing mode. If it is a WIFI device, the "Touch" mode is preferred. If the pairing fails, please select the "AP" mode for pairing; if it is a Bluetooth device, click "Bluetooth device" to pair and connect.

**Third step**

During the pairing process, the WIFI network must be 2.4G, and the 5G network cannot be paired. (If your WIFI router 2.4G and 5G are network merged, please reconfigure the router, separate it, and select 2.4G network.)

Next step

**Fourth step**

The product enters Touch by default after power-on Pairing mode.

Customize device name and classification.

Click "Start Connection".

## 9.2 AP model

Press the product button for more than 5 seconds to bring the product into the compatibility mode (AP mode) pairing state (the blue lights continuously flash)

### Product networking steps

#### First step

Click on the small plus sign

#### Second step

Please select "AP" mode to pair

#### Third step

During the pairing process, the WIFI network must be 2.4G. Yes, the 5G network cannot be paired. (If your WIFI router 2.4G and 5G are network mergers Please reconfigure the router, separate it, and select Take 2.4G network)

#### Fourth step

Customize the device name and category, click "start connection"

#### Fifth step

Enter the phone setting interface and connect the WIFI network to SinilinkProduct (password is 12345678)

#### Sixth step

Go back to Sinilink APP and click "Next"

#### Seventh step

Click "Finish adding" and waitfor the mobile phone to connect successfully, and then automatically return to the app device interface

## 10.How to download a mobile APP

扫码下载APP



Scan Download APP

Scan the code to download APP, foreign customers please download in Google market, search for 'sinilink' download