# BEOK CONTROLS TFT-LCD Heating Thermostat Instruction Manual



**COLOR TFT-LCD HEATING THERMOSTAT**

Contents

1 Product Summary:
2 Technical Parameter:
3 Main Functions and Characteristics
4 User Interface Explanation(Phone Port)
5 Model Spec
6 Wiring Digram
7 Thermostat Operation Instruction
8 Phone Port Operation Instruction
9 Attention to Phone WiFi Connection:
10 Installation Instruction
10.1 ATT:
11 Documents / Resources
12 Related Posts

## Product Summary:

Color TFT-LCD Heating Thermostat is WIFI touch screen thermostat with phone control. It is applied to temperature control of industrial, commercial and domestic room, and start of control heating appliances, especially floor heating systems. It can be  controlled by phone. Phone systems are IOS and Andriod system optional.

## Technical Parameter:

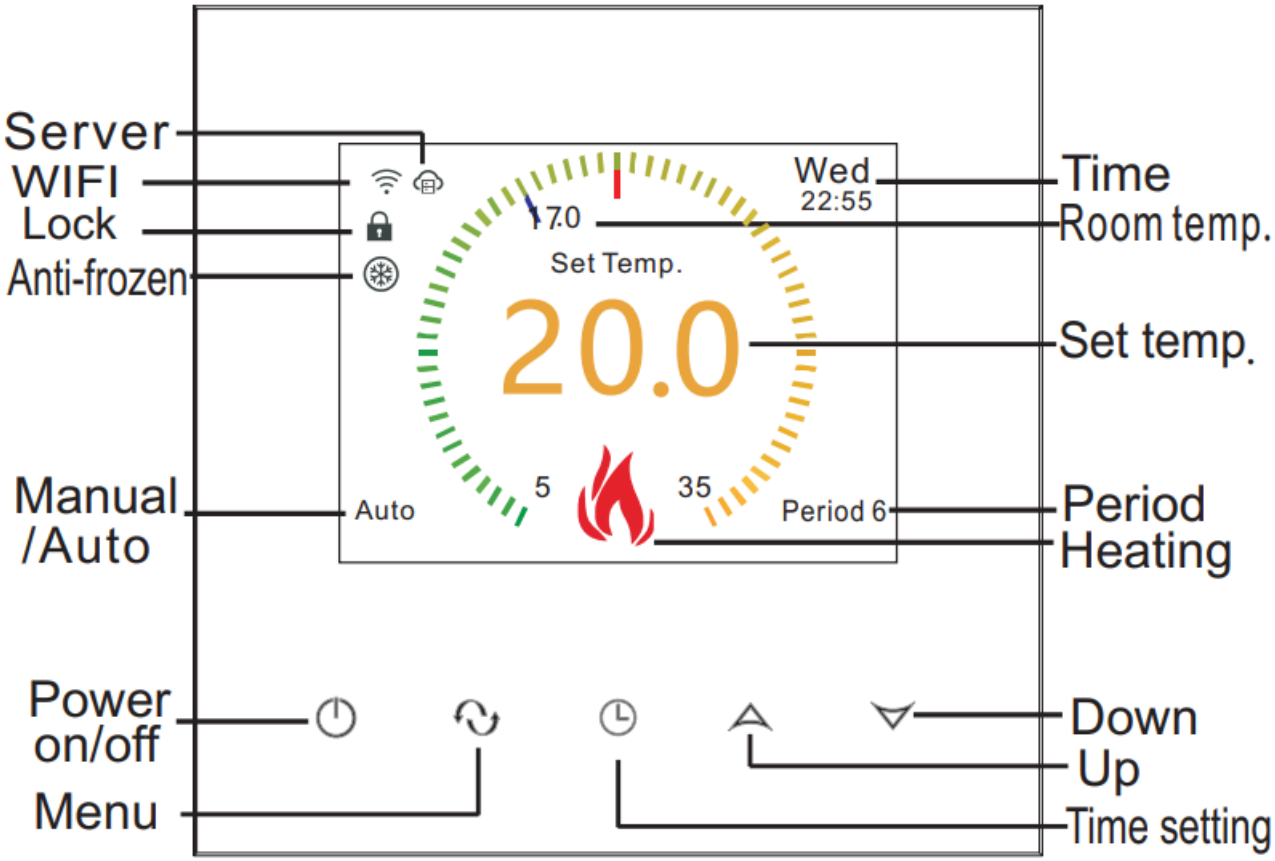
| | |
|---|---|
| Power Supply | 200 ~ 240V  50 ~60Hz |
| Current Load | ≤3A water heating)<br>≤16A(electric heating) |
| Power Consumption | <0.3W |
| External Material | PC+ABS (flame retardant |
| Sensing Element | NTC |
| Set Temp. Range | 5-60℃ |
| Floor Set Temp. Range | 5-99℃ |
| Accuracy | ±1℃ |
| Dimension | 86x86x13.3mm |
| Ambient Temp. | 0-45℃,5-95 RH(Non-condensing |
| Storage Temp. | -5~55℃ |
| Timing Error | <1 |

## Main Functions and Characteristics

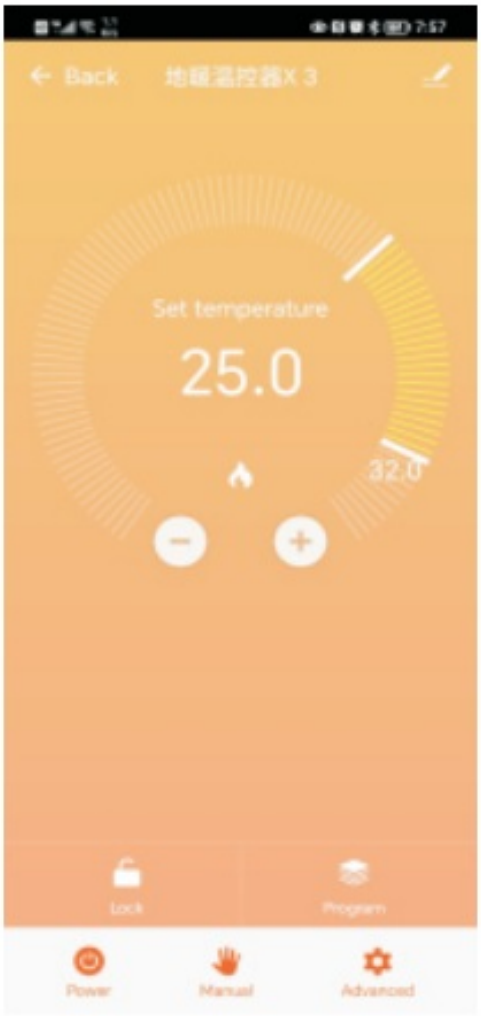
1. WIFI for Andriod & Apple iOS
2. Large screen display and touch button
3. Power-off memory function

4. Real-time data save function
5. 5+2 or 6+1or 7days six periods program schedule
6. Anti-freezing function
7. 3 sensor modes can be setting
8. Selectable 80mmx80mm European hidden box.
9. With child lock function

**User Interface Explanation(Thermostat Port)**



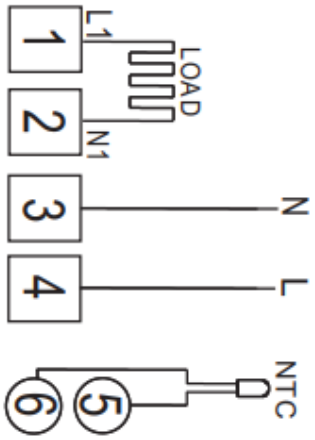

**User Interface Explanation(Phone Port)**



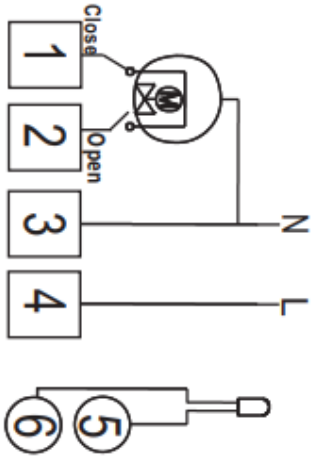

**Model Spec**

| Model | Current Loading | week program | Week Program | Controlled Objects |
|---|---|---|---|---|
| XXX-EP | 16A | ✓ | ✓ | For electric heating appliances |
| XXX-WP | 3A | | ✓ | For water heating appliances |
| XXX-WPB | 3A | | ✓ | For gas boiler |

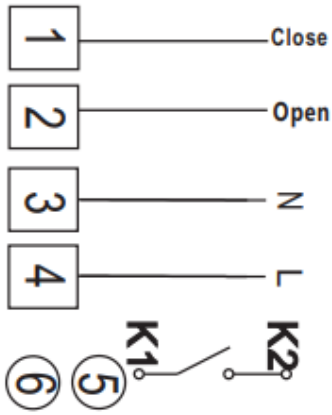
**Wiring Digram**




XXX-EP




XXX-WP




XXX-WPB

**Thermostat Operation Instruction**

1. Main key instruction

   ON/OFF key;

   Mode Key: Switch between Manual mode, Auto mode, Temporary manual mode. Long press to enter period setting

   Time key: Hour, minute and week setting.

   Up key: To increase temperature.

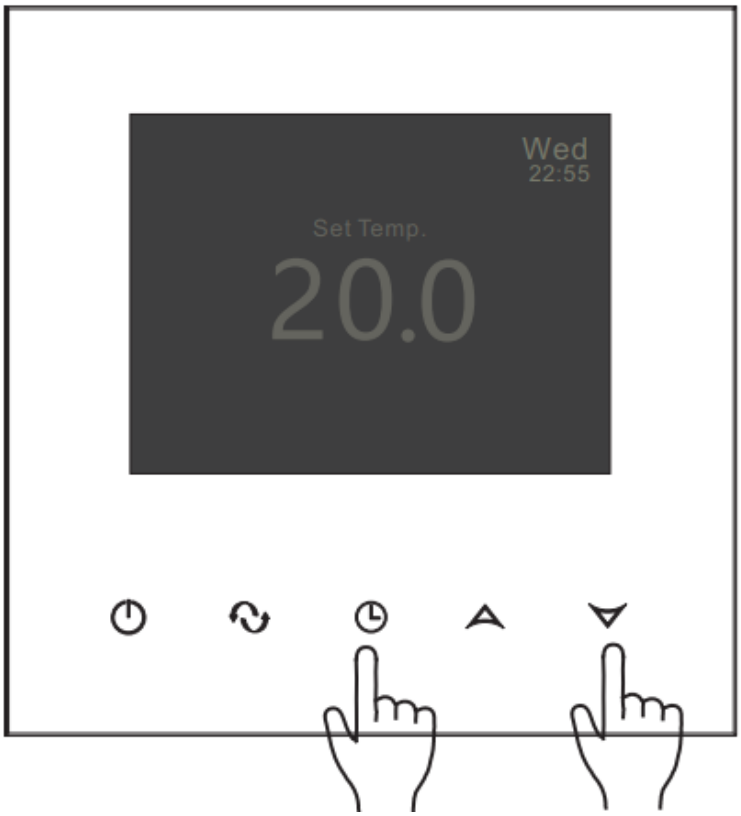
   Down key: To reduce temperature.

2. Set up child locks

   Long press to enter into child lock mode, will display.

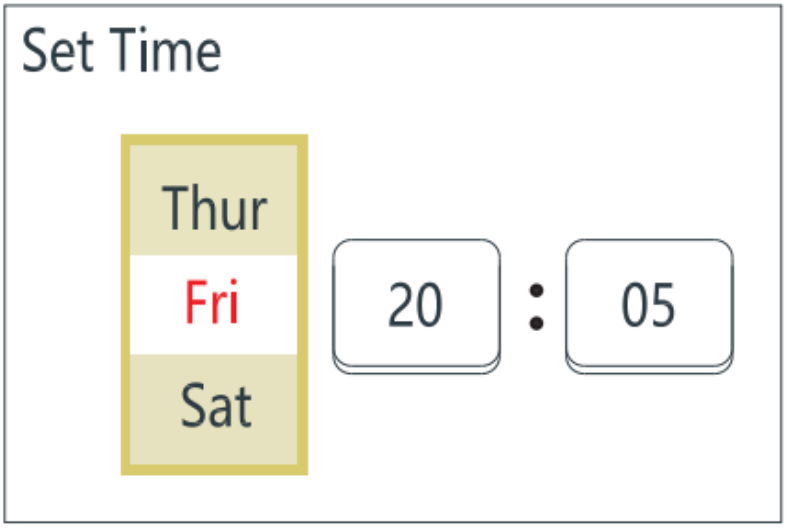
   Long press again, the child lock will be disappeared.

3. Turn off the backlight mode by turning off the lights




When turning on or off, press the time button and down button simultaneously to enter the green light energy-saving mode. The thermostat is working normally, but there will be a faint display.

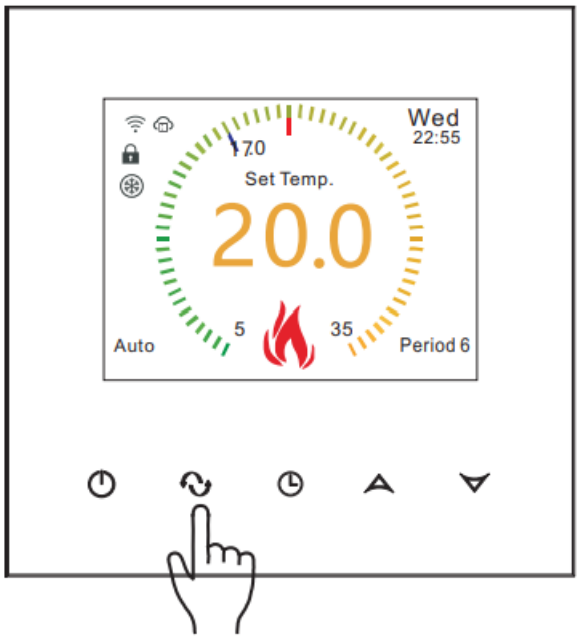
4. Setting the clock

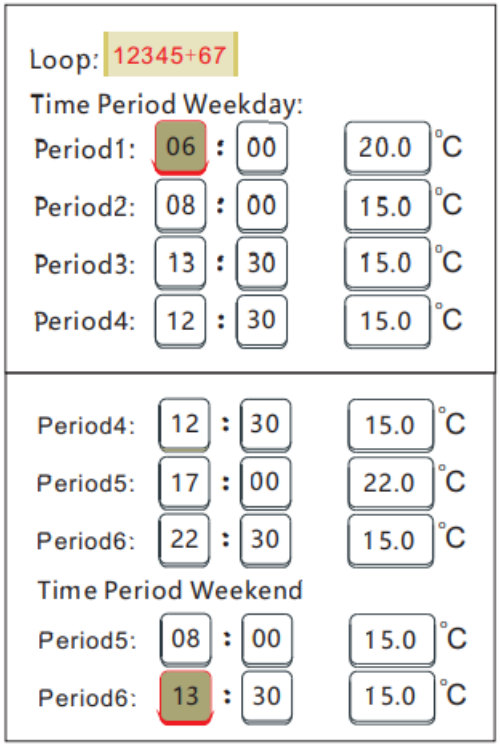



Press the key to display the week, hour, and minute (as shown in the left figure).

Press the key to select week, hour, and minute. Press the and keys to set the correct time.

5. Setting the programmable mode

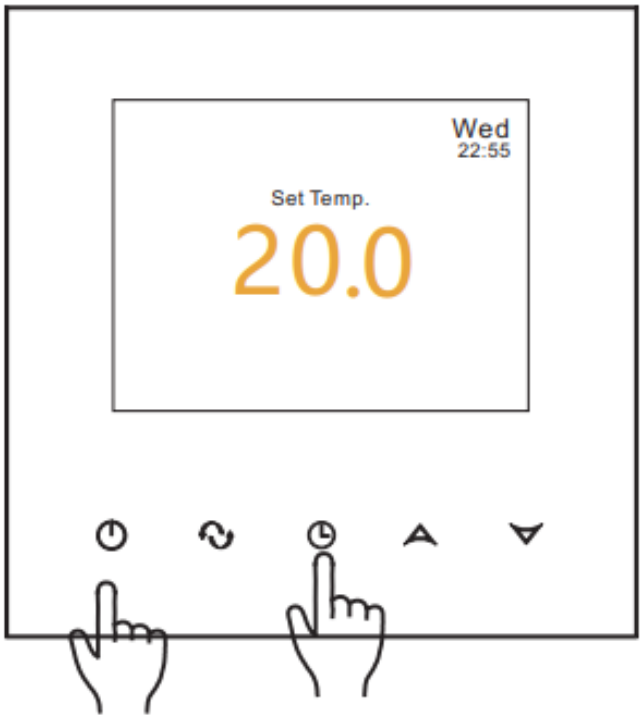



Press and hold key for 5 seconds when the thermostat is turned on, and the screen will display “LooP” to set the desired time and time period temperature. “LooP” represents a week’s working and rest day cycle control mode. Repeat the operation “ “ to move the cursor to select the set time and time period temperature. Press and to set the time and time period temperature parameters.

The working day is divided into six time periods, and the rest day is divided into two time periods. The time period parameters in the graph are the default parameters at the factory.

6. Advanced settings (recommended for professional operation)




When shutting down, press first and then to enter advanced settings;

Press the key to move the cursor and select the setting parameters.

| | | |
|---|---|---|
| Language | English | Language: English/ |
| Sensor Mode | In | In / Out (Ext Sensor) / In and Out |
| Out Set temp: | 42 °C | 5-99°C |
| Out Control Hysteresis: | 2 °C | 1-9°C (Ext Sensor) |
| Set temp Max: | 35 °C | 5-99°C |
| Set temp Min: | 05 °C | 5-99°C |
| Sensor compensate: | 00 °C | 0-5°C |
| Antifreeze: | Disable | Disable/Enable |
| Restart: | always off | always off/keep last status |
| Room Control Hysteresis: | 10 °C | 0.5-3.0°C |
| Linkage output direction: | Positive | Positive/Negative |
| FAC: | 08 | FAC=0 Restore factory settings |

**(Press the key to take effect)**

**Remark:**

Deadzone for floor temp.: i.e. the setting deadzone for floor sensor is 2, Out Set temp. is 42°C, when actual temp. reach 44°C, the relay will stop working; when actual temp. is back to 40°C, the relay starts working again.
It works when room temp. is lower than set temp.

**Sensor error:**

Please select the right sensor mode. If select the different mode or there is error of sensor, “Ext sensor dropped” will display on the LCD screen, the thermostat will stop heating till the problem is solved.

## Phone Port Operation Instruction

1. Install APP on phone
For iOS system: Login in App Store, search “Smart Life” or “Tuya Smart”, you can download it on your iphone.
Or scan below code to download:

https://apps.apple.com/cn/app/%E6%99%BA%E8%83%BD%E7%94%9F%E6%B4%BB-%E6%99%BA%E6%85%A7%E5%AE%B6%E5%B1%85/id1586125720

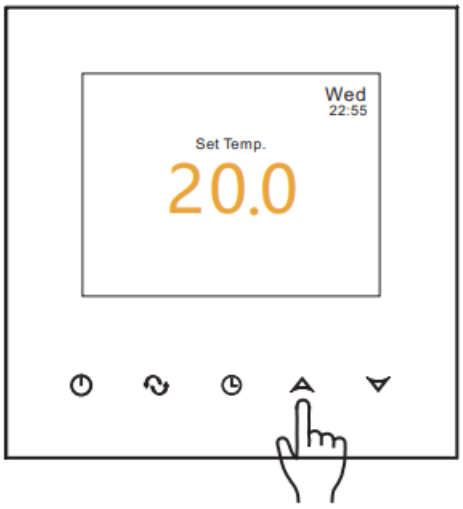
For Android System: Login in Google Play, search “Smart Life” or “Tuya Smart”, you can download it on your phone.

Or scan below code to download:

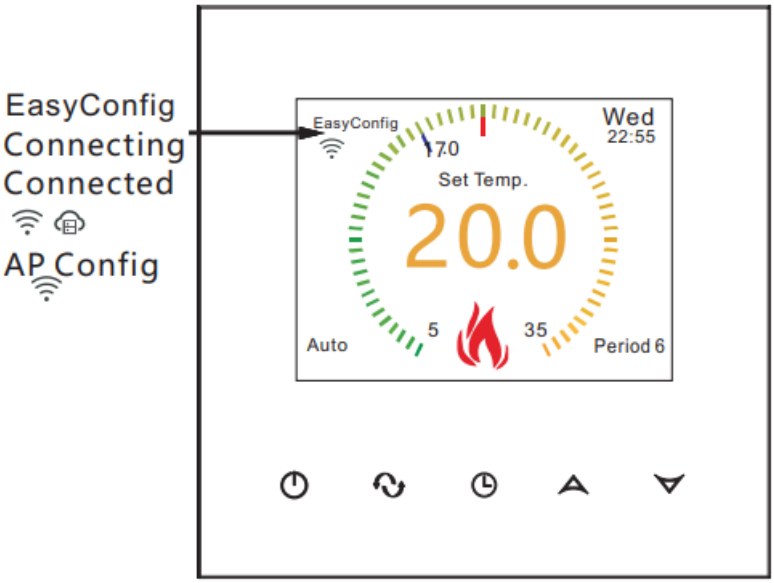
https://a.smart321.com/tuyasmartlifeiot

**2. Connection Thermostat with phone**

**Thermostat Setting**




In power off state: Long press the Up key for 10 seconds.

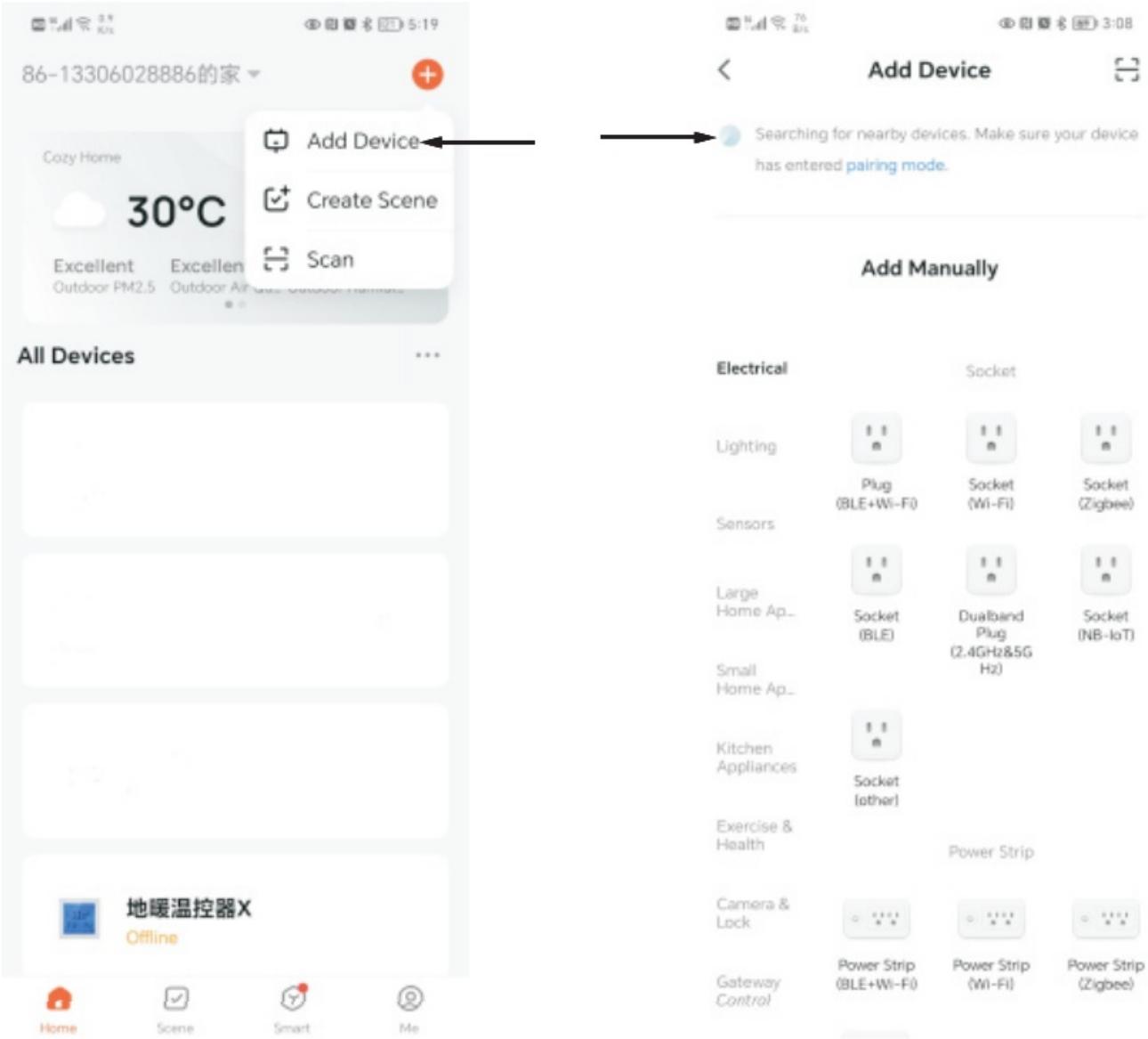



Start WIFI configuration: When the WIFI icon and EasyConfig are displayed on the screen, WIFI configuration can be used.
**Easyconfig:** network distribution can begin.
**Connecting:** the phone is connected normally.
**Connected:** distribution network complete.

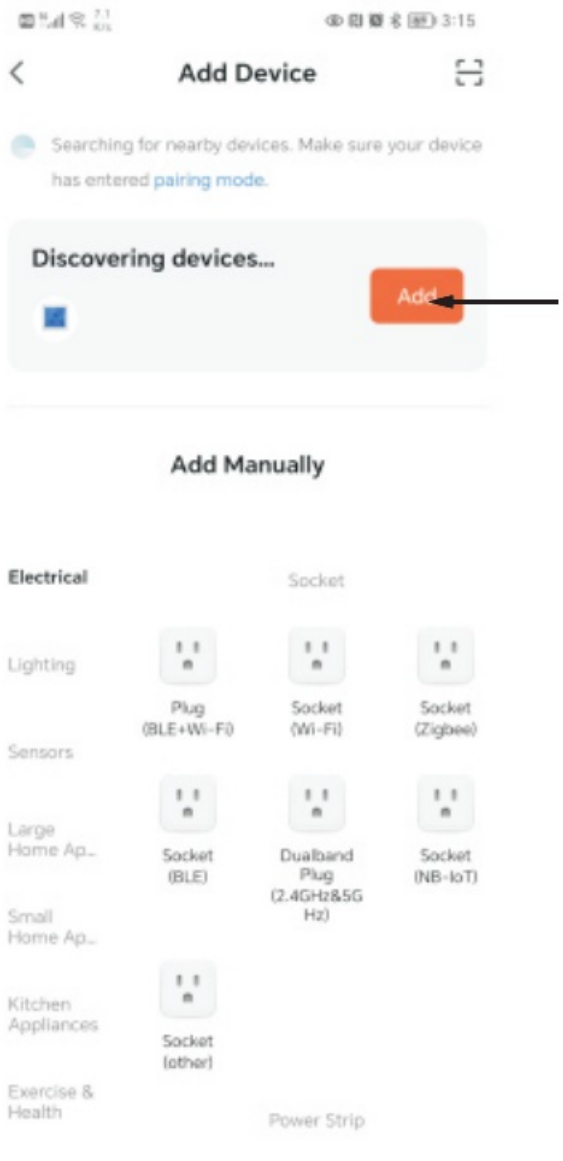
Connect the distribution network to the WIFI branch server cloud.

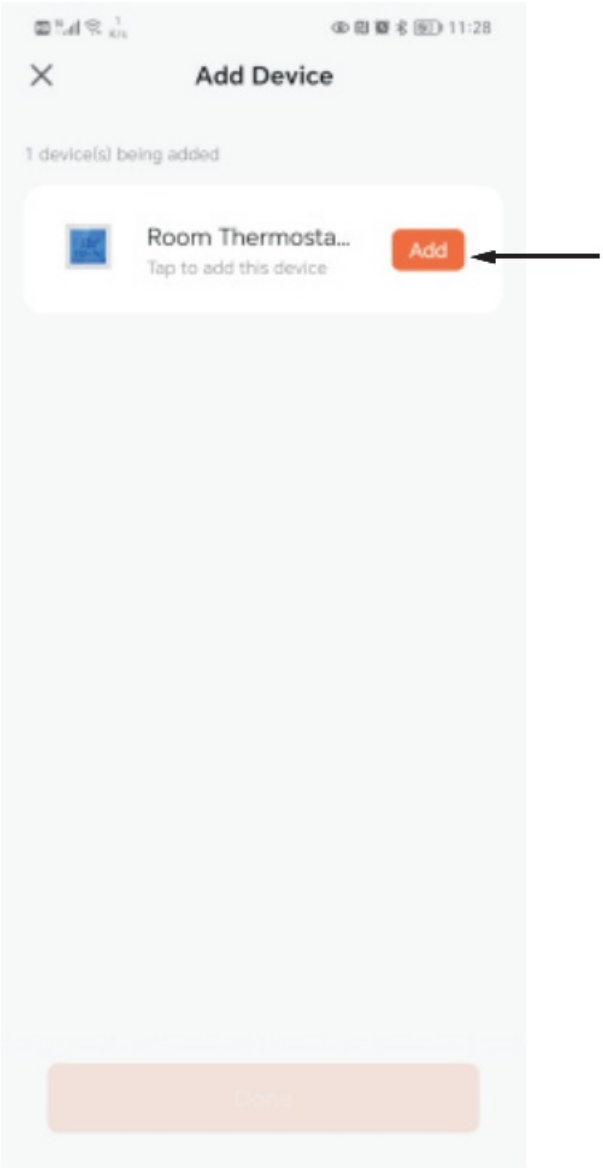
Before configuring the network thermostat, please check the necessary settings on your phone:
Be sure to turn on your phone's Bluetooth. Only 2.4G status configuration can be added for WIFI access on mobile phones (the name and password can only use numbers and letters, not symbols).

**Connection with Phone**
Open Smart Life or Tuya Smart APP on your phone, you can see APP welcome page.
When the WIFI icon and EasyConfig are displayed on the screen, you canstart the configure on your phone.
Log in or sign up your TuyaSmart APP.
When the thermostat Wifi Symbol twinkling fast, you can start to add device on your Phone.

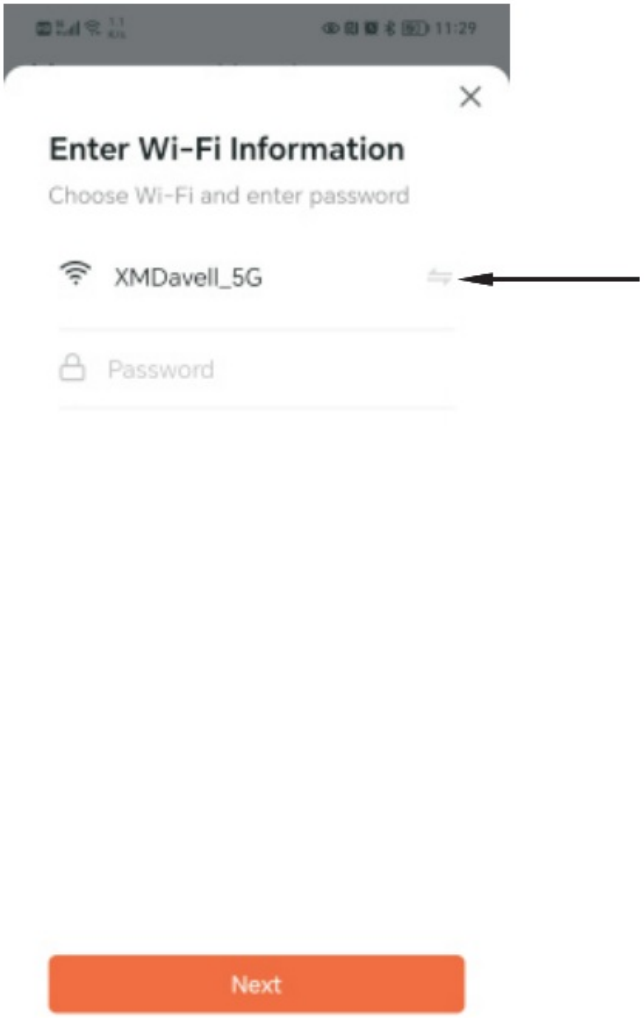


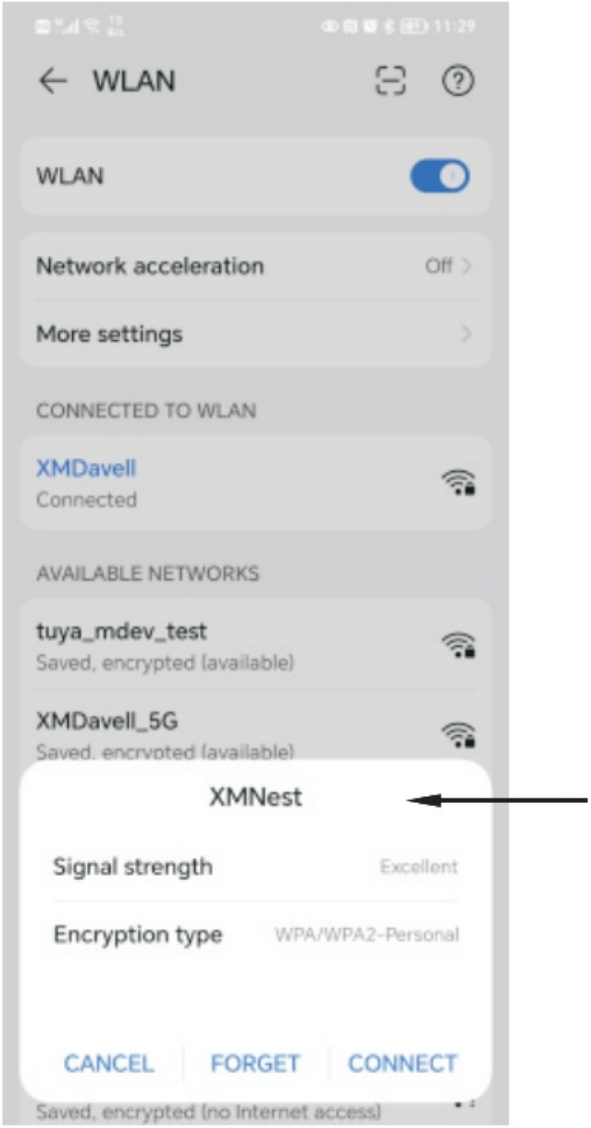

After clicking on the menu and selecting “Add Device”, the APP will automatically search for the thermostat.



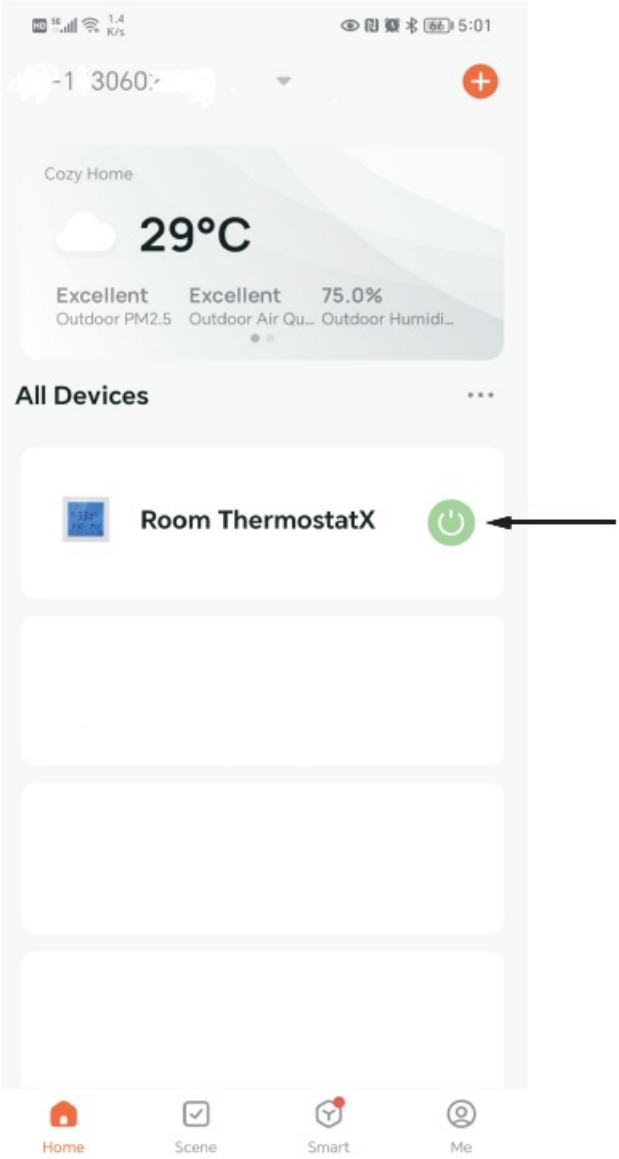

Display on AAP:
The ‘A Discovering devices’ and’ Done ‘apps have now found the devices through Bluetooth and connected them to the thermostat.
Click on ‘ADD’



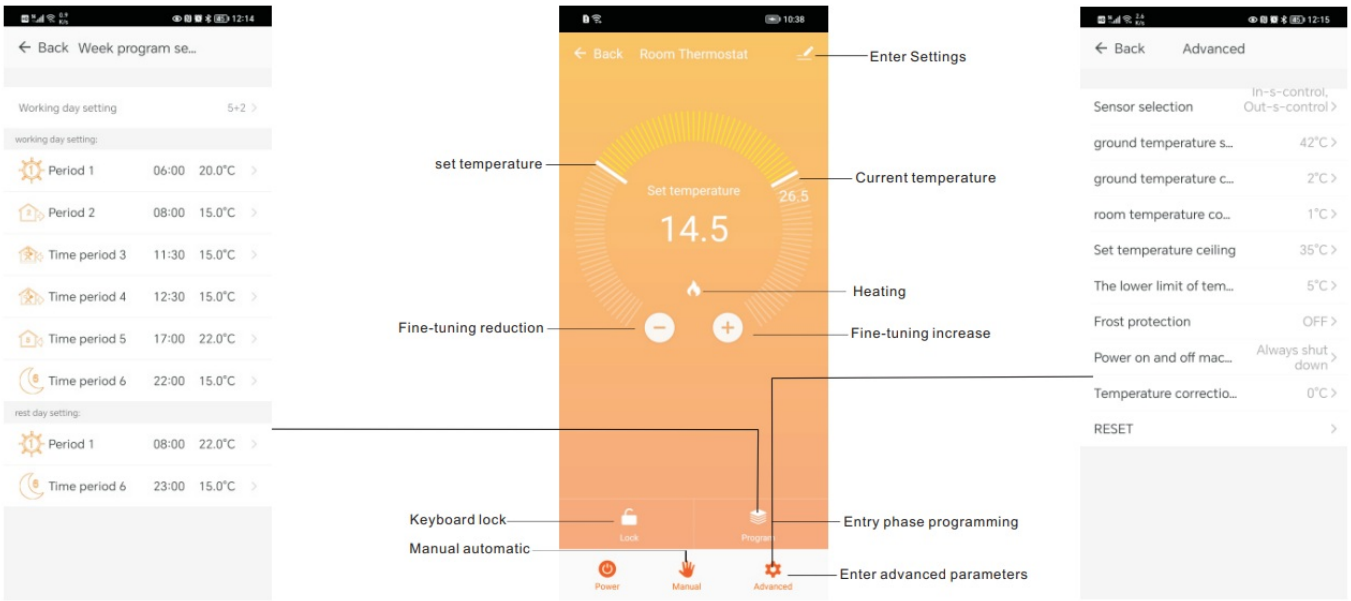

If your phone's WIFI connection is on 5G frequency, please switch to 2.4G frequency. Press Next

**App Interface on the Phone**




The overall device list of the mobile app has a shortcut key for turning on/off he thermostat.

**Open the Home screen of mobile phone APP thermostat**

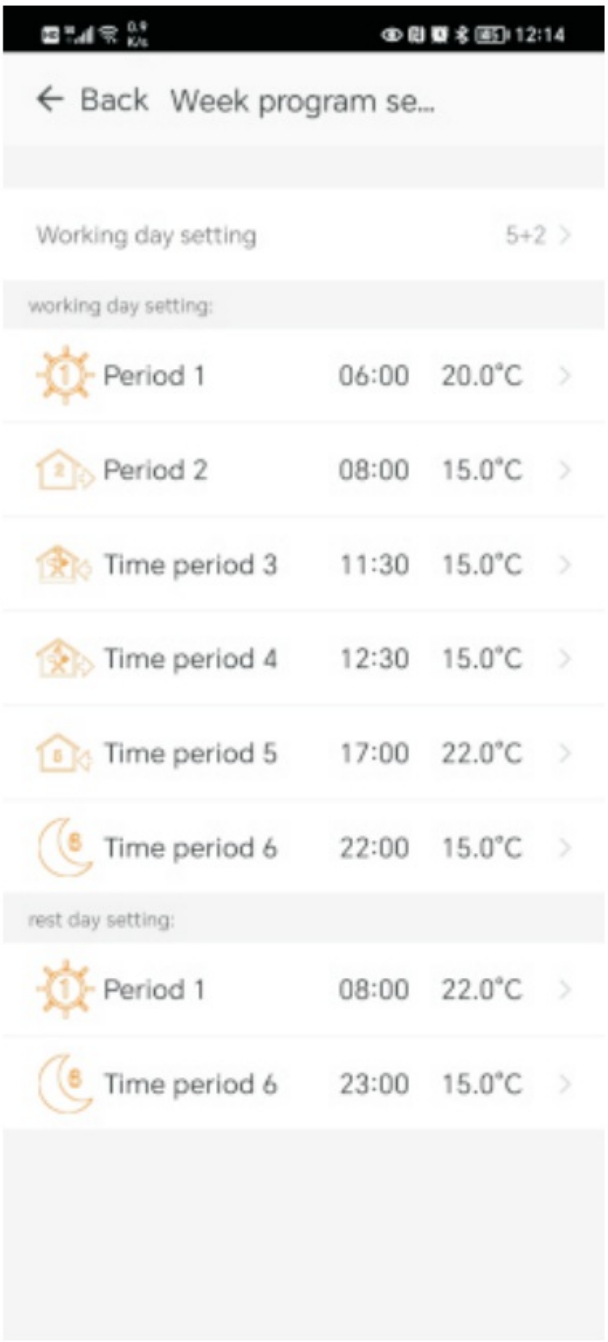



Thermostat Setting through Phone Operation

1. Children lock (screen locking) : Press to lock the thermostat.
2. Temperature setting: You can directly drag the pointer on Temperature Setting Dial to set temperature. Or press

and to set temperature step.

3. Period setting: Press hen you will go into the Period Setting mode:



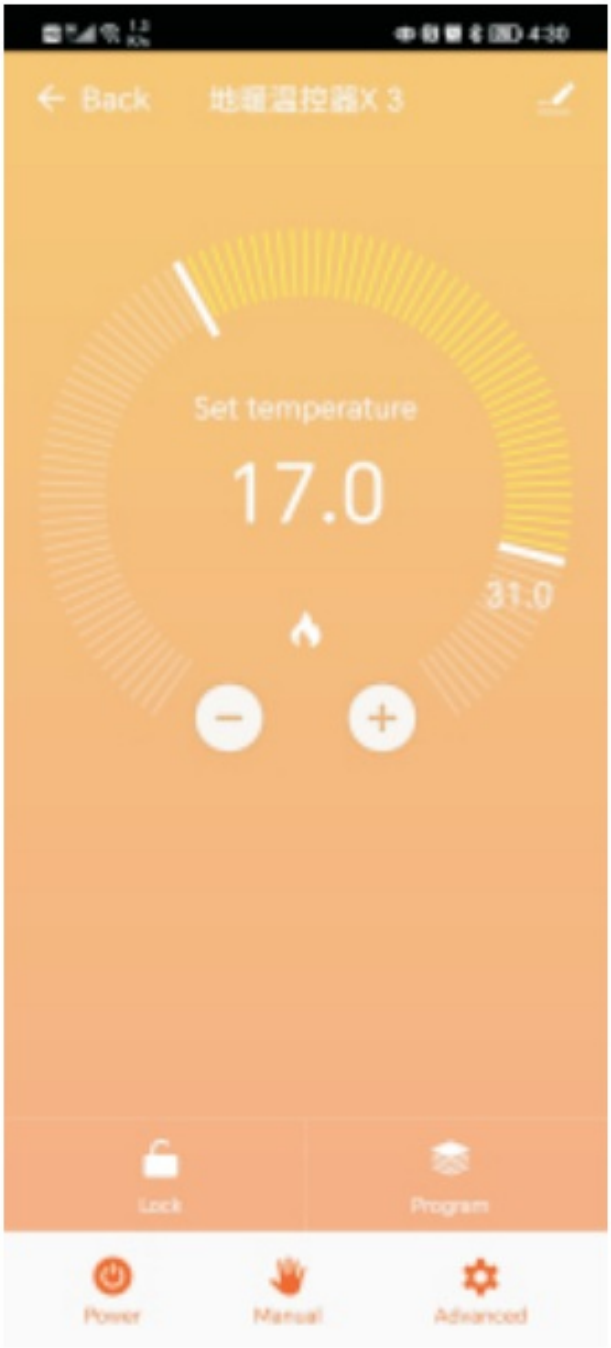

Touch working day setting: you can choose the week program mode: 5+2/ 6+1 /7.

**Notice:** When you choose the program mode to 7, rest day setting data set will no appear.

Advanced Setting: Press Advanced , you will go into Advanced setting mode:

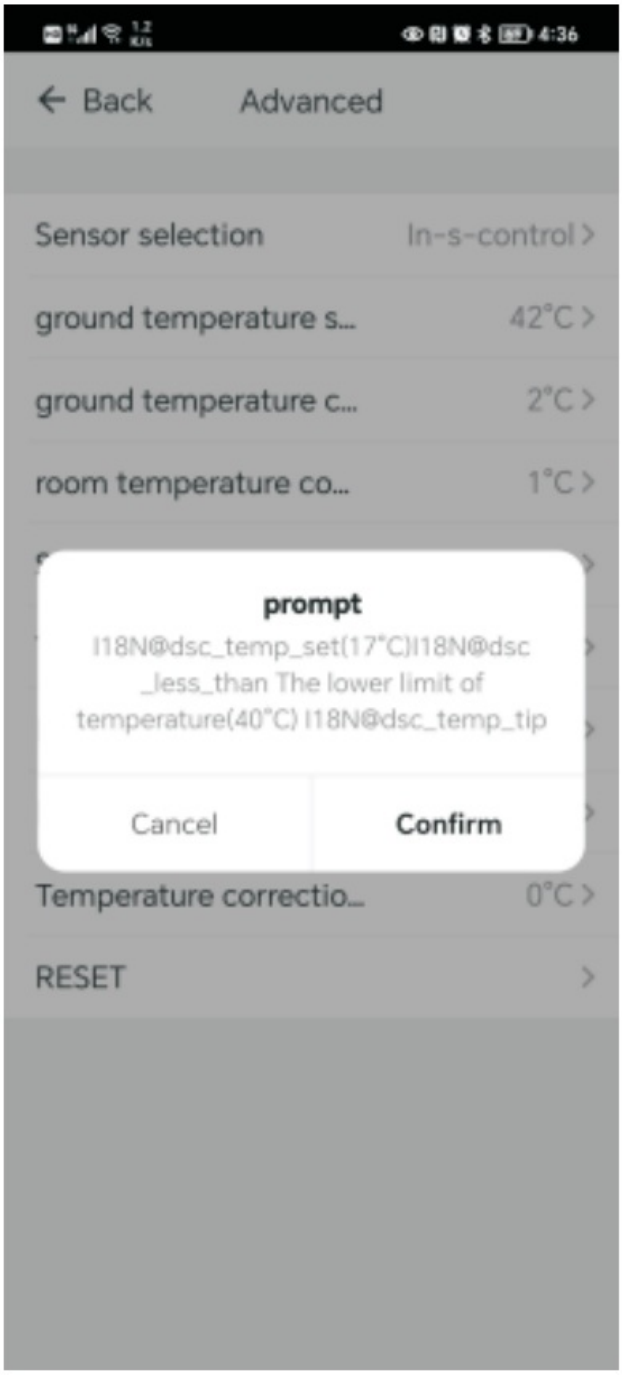
7. Switch of Manual mode and Auto mode: Press Manual to switch manual mode or Auto mode.

8 Power off : Press Power to turn on or off thermostat.



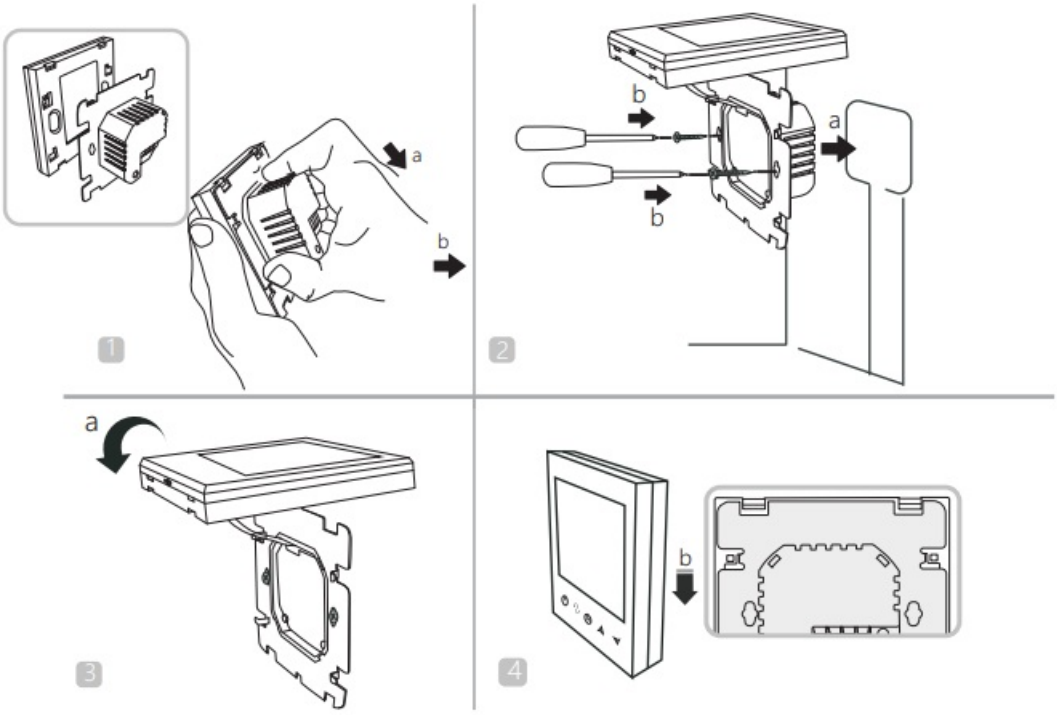

**Attention to Phone WiFi Connection:**

1. After you press Configure, if connection fails:
   a. Please confirm your mobile phone is set to WLAN mode, and ensure its (mobile data)3g/4qg is turned off. Please connect to 2.4G wifi, not 5G wifi.
   b. Please add your wifi router name, we recommend it does not include spaces or Chinese symbol.
   c. Please check your wifi router password. We recommend not over 32 characters, no spaces, no blank password, no special symbols except letters and numbers.
   d. AP config: AP thermostat hotspot configuration (operate FAC=12 in advanced settings).
   e. Please confirm wifi password is correctly filled. We recommend you check password to be visible when itis input.
2. If it displays the following reminder, please go to Advanced Setting to reset corresponding setting. Or restore factory “RESET”




**Installation Instruction**

This product is suitable for standard 80*80mm wall box and 60 mm european round box.




1. Open the main control board as shown in the figure, press the power part of the thermostat, gently lift it up, and separate it from the mounting board hook.
2. Connect the wires correctly according to the wiring diagram and secure the rear cover to the mounting plate with M4 screws
3. Connect the lower cover cable to the upper cover.
4. Insert the back into the four hooks of the mounting plate. Gently press down on the thermostat to lock the front housing and complete installation

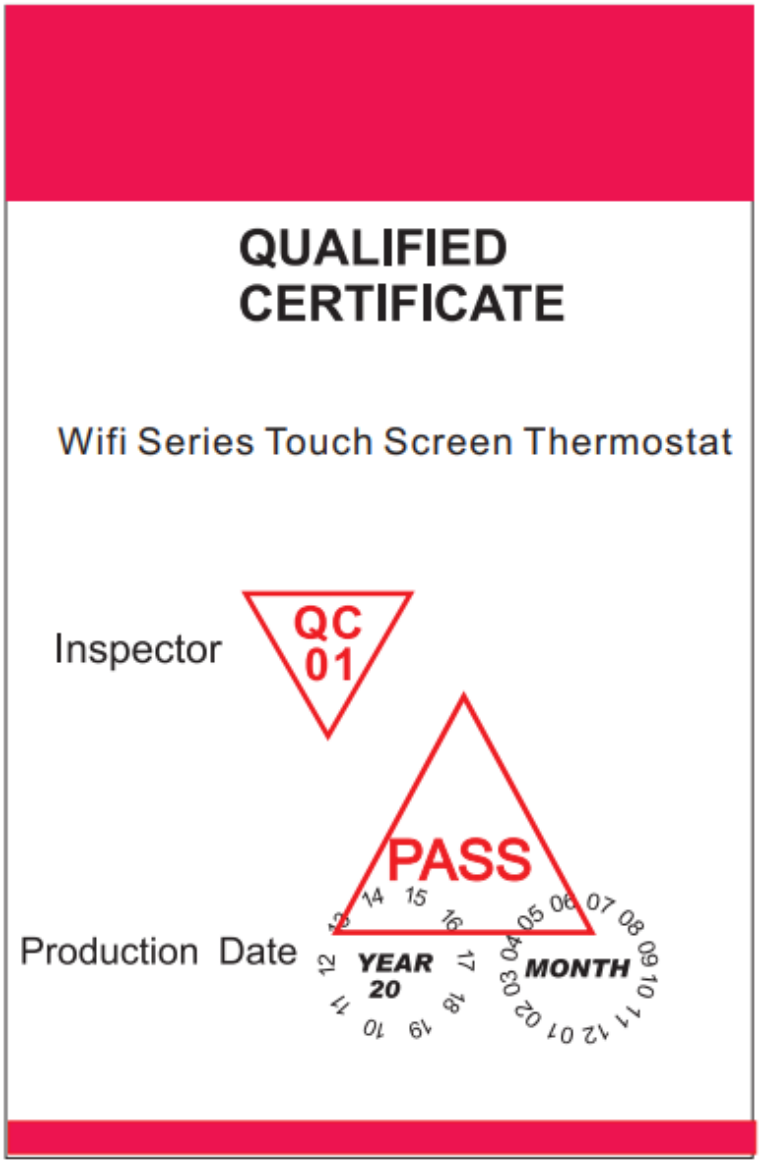
**NOTICE:** The installation wire should be 1.5-2.5mm2.

## ATT:

Thank you for buying this product!
Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.
**In the box you will find:**

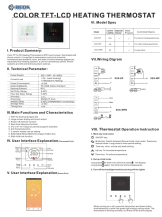
| Model | XXX-EP | XXX-WP | XXX-WPB |
|---|---|---|---|
| Thermostat | √ | √ | √ |
| User Manual | √ | √ | √ |
| Screws | √ | √ | √ |
| External sensor | √ | | |

**Our Service:**
We offer the warranty of 24 months from the sales day.
During the warranty, if it is belong to the quality issue, we will fix or replace them for you by free after test them.
If it is not quality problem or beyond the warranty time, we will charge for the after-sales service.




**Warning:**
The symbol means the unit is being installed, it may cause electrical shock hazard during maintaining, so please make sure it is operated by the professional technical worker.

## Documents / Resources

| | |
|---|---|
|  | BEOK CONTROLS TFT-LCD Heating Thermostat [pdf] Instruction Manual<br>TCB38WIFI-TUYA, TFT-LCD, TFT-LCD Heating Thermostat, Heating Thermostat, Thermostat |

Manuals+.