

# COLOR TFT-LCD HEATING THERMOSTAT



## I. 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 Android system optional.

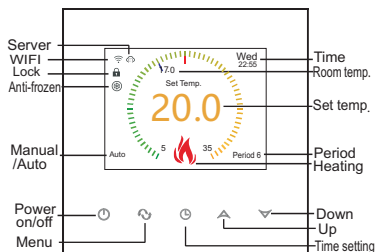
## II. Technical Parameter:

Power Supply	200 ~ 240V 50 ~60Hz
Current Load	≤3A (water heating) ≤16A(electric heating)
Power Consumption	<0.3W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	5-60°C
Floor Set Temp. Range	5-99°C
Accuracy	±0.5°C
Dimension	86x86x13.3mm
Ambient Temp.	0-45°C,5-95%RH(Non-condensing)
Storage Temp.	-5~55°C
Timing Error	<1%

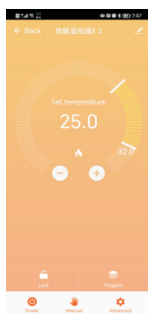
## III.Main Functions and Characteristics

1. WIFI for Android & 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+1 or 7 days 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

## IV. User Interface Explanation(Thermostat Port)



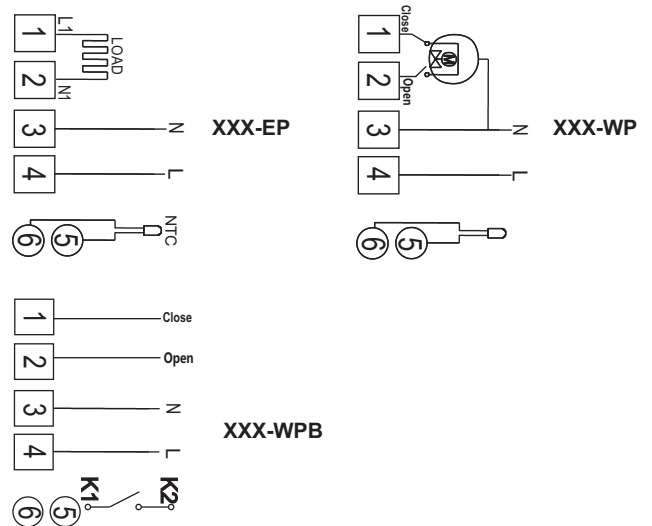
## V. User Interface Explanation(Phone Port)



## VI. Model Spec

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

## VII.Wiring Diagram



## VIII. Thermostat Operation Instruction

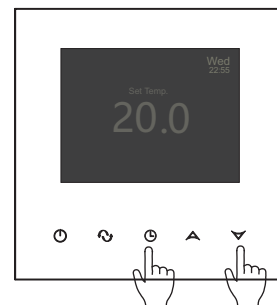
### 1. Main key instruction

- ⏻ 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

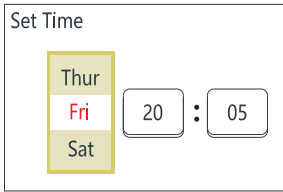
Long press ⌚ to enter into child lock mode, 🚫 will display. Long press ⌚ again, the child lock will be disappeared.

### 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.

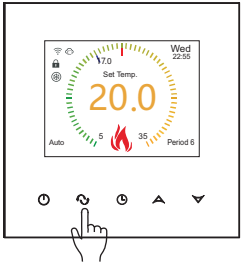
#### 4. Setting the clock



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

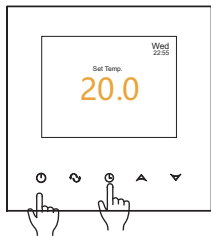


Loop:	12345-67	
Time Period Weekday:		
Period1:	08 : 00	20.0 °C
Period2:	08 : 00	15.0 °C
Period3:	13 : 30	15.0 °C
Period4:	12 : 30	15.0 °C
Period4:	12 : 30	15.0 °C
Period5:	17 : 00	22.0 °C
Period6:	22 : 30	15.0 °C
Time Period Weekend:		
Period5:	08 : 00	15.0 °C
Period6:	18 : 30	15.0 °C

Press and hold 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 and then to enter advanced settings;

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

Language	English	Language: English/ Русский язык / Deutsch/Français/Italiano/Español
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:	1.0 °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.

## IX. 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:



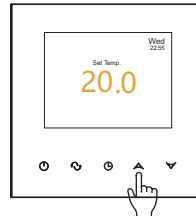
For Android System: Login in Google Play, search "Smart Life" or "Tuya Smart", you can download it on your phone.

Or scan below code to download:

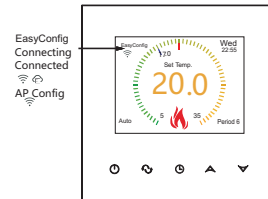


### 2. Connection Thermostat with phone

#### 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.

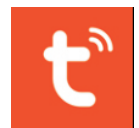
Before configuring the network thermostat, please check the necessary settings on your phone:

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

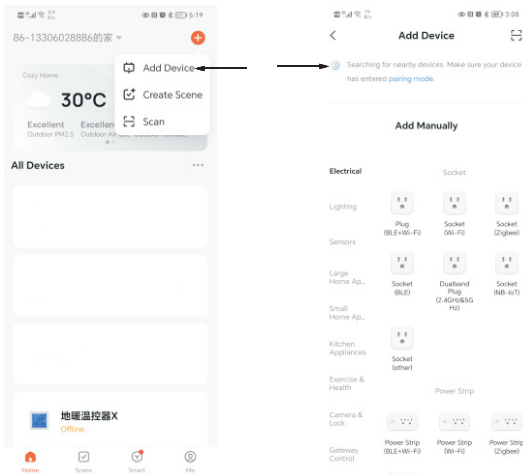
Open Smart Life or Tuya Smart APP on your phone, you can see APP welcome page.



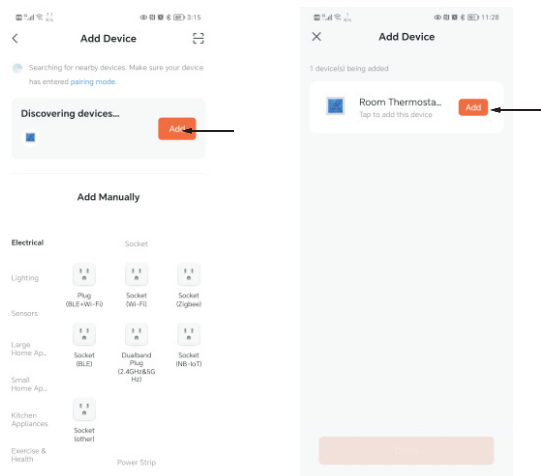
When the WIFI icon and EasyConfig are displayed on the screen, you can start the configure on your phone.

Log in or sign up your TuyaSmart APP.

When the thermostat Wifi Symbol twinkling fast, you can start to add device on your Phone.

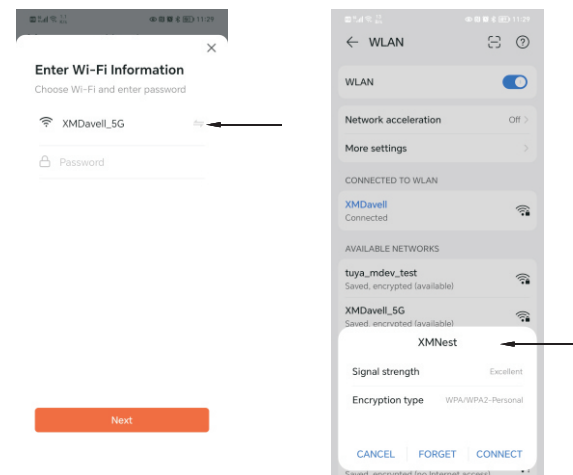


After clicking on the menu and selecting "Add Device", the APP will automatically search for the thermostat.



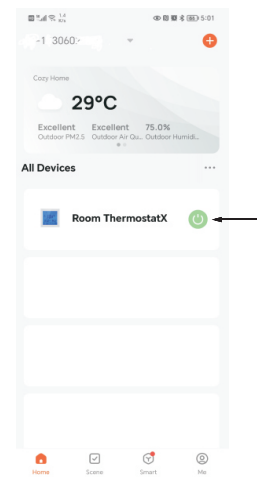
Display on AAP:  
The 'A Discovering devices' and 'Done' apps have now found the devices through Bluetooth and connected them to the thermostat.

Click on 'ADD'



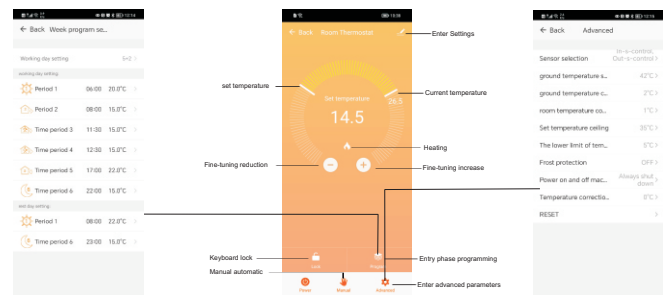
If your phone's WIFI connection is on 5G frequency, please switch to 2.4G frequency. Press Next

## APP Interface on the Phone



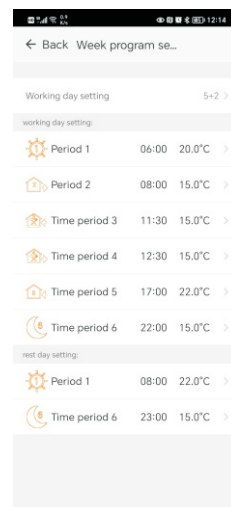
The overall device list of the mobile app has a shortcut key for turning on/off the thermostat.

## 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 then you will go into the Period Setting mode:





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

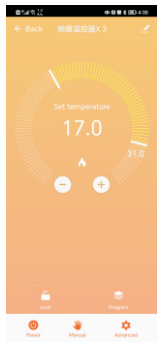
Notice: When you choose the program mode to 7, rest day setting data set will not appear.

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



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

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

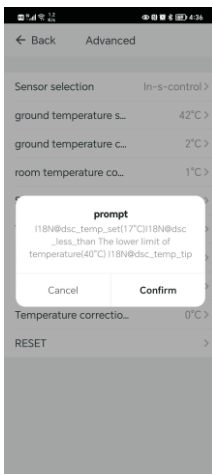


## X. Attention to Phone WiFi Connection:

1. After you press Configure, if connection fails:

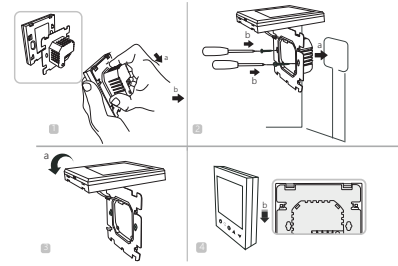
- Please confirm your mobile phone is set to WLAN mode, and ensure its (mobile data)3g/4g is turned off. Please connect to 2.4G wifi, not 5G wifi.
- Please add your wifi router name, we recommend it does not include spaces or Chinese symbol.
- Please check your wifi router password. We recommend not over 32 characters, no spaces, no blank password, no special symbols except letters and numbers.
- AP config: AP thermostat hotspot configuration (operate FAC=12 in advanced settings).
- Please confirm wifi password is correctly filled. We recommend you check password to be visible when it is input.

2. If it displays the following reminder, please go to Advanced Setting to reset corresponding setting. Or restore factory "RESET"



## XI. Installation Instruction

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



- 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.
- Connect the wires correctly according to the wiring diagram and secure the rear cover to the mounting plate with M4 screws
- Connect the lower cover cable to the upper cover.
- 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 1.5-2.5mm<sup>2</sup>.

## XII. 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:**

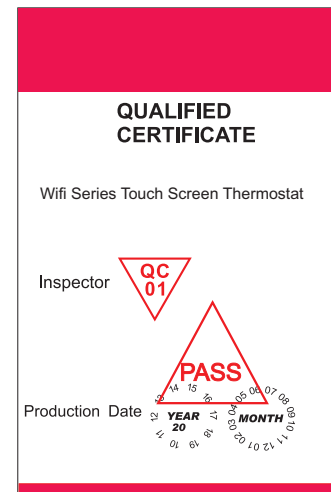
Model	XXX-EP	XXX-WP	XXX-WPB
Thermostat	✓	✓	✓
User Manual	✓	✓	✓
Screws	✓	✓	✓
External sensor	✓		

## 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.

