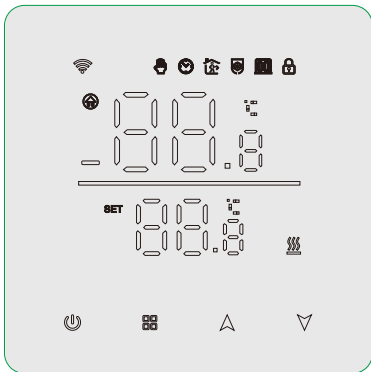


Thermostat User Guide



Product Packaging

Thermostat Main Unit-----1PC

Instruction Manual-----1PC

Certificate of Conformity-----1PC

Screws-----2PCS

Product Models

WP Hydronic Heating 3A

EP Electric Heating 16A

WPB Gas Boiler 3A

Electrical Specifications:

- 1.Temperature Sensor: NTC
- 2.Temperature accuracy:1°C (Default, adjustment range: 0.5°C-10°C)
- 3.Display screen:LED
- 4.Working environment: -5-50°C
- 5.Self-consumption power:<1W
- 6.Temperature setting:5-60°C
- 7.Display range: 0-90°C
- 8.Voltage:AC100-240V,50/60Hz
9. Load current:water heater 3A
 electric heater 16A
 gas boiler heater 3A

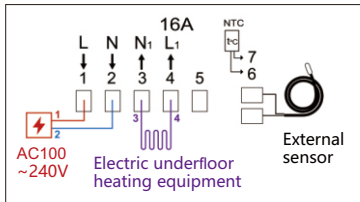
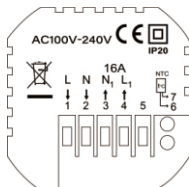
Feature Overview

1. Read this manual carefully. Improper operation may damage this product or create hazardous conditions.
2. Installation must be performed by trained and experienced service technicians.
3. After installation, carefully review this manual and operate the product according to the usage guidelines.

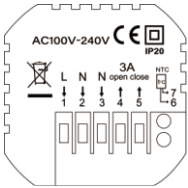
Caution: Risk of electric shock or equipment damage

Wiring Diagram

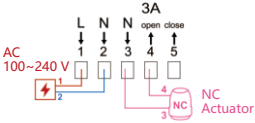
TGM45-EP (Electric Under floor Heating Thermostat 16A)



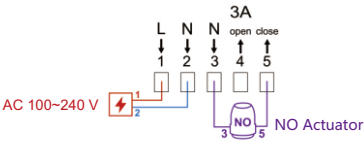
TGM45-WP (Water Heating Thermostat 3A)



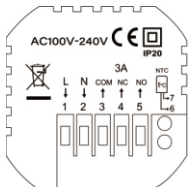
When connecting the NC electric thermal actuator



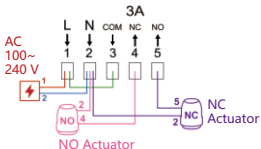
When connecting the NO electric thermal actuator



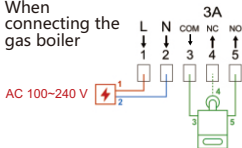
TGM45-WPB (Water or Gas Boiler Thermostat 3A)



When connecting the electric thermal actuator



When connecting the gas boiler

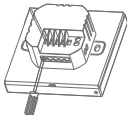


A few boilers need to be connected to COM and NC (terminal 3 and 4), please refer to the boiler manual.

Gas boiler (with dry contact, passive connection)

Installation Steps

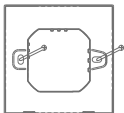
This product uses 86mm standard mounting box
(compliant with European standards)



1. Connect the wires according to the wiring diagram



2. Separate the power board and control board

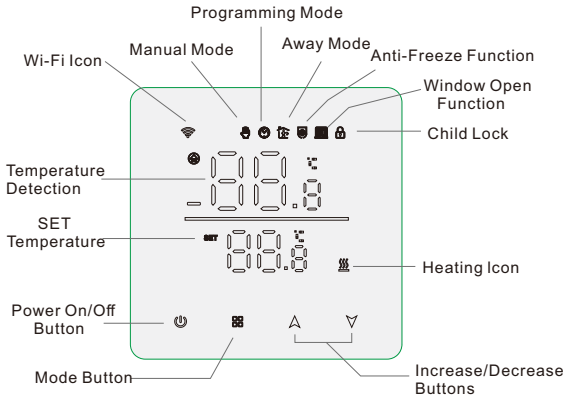


3. Use screws to secure the powerboard to the 86mm mounting box



4. Connect the ribbon cables to the powerboard and control board, aligning them at a 30-degree angle and snapping them into place to complete installation

Display Icon Descriptions



Operation Instruction

1. Power On/Off:

Press the  button to turn the thermostat on or off.

2. Mode Switching:

Press the  button to toggle between Manual and Away modes.

3. Child Lock Function:

Simultaneously press and hold the  and  buttons for 5 seconds to enable or disable the child lock.

4. Temperature Setting:

Adjust the temperature setting by pressing the  or  buttons.

5. Wi-Fi Connection:

With the thermostat powered on, press and hold the  button for 5 seconds. The Wi-Fi icon will flash on the display, indicating the thermostat is entering network connection mode.

6. Programming Mode :

This function is only accessible via the mobile app. Open the thermostat interface on your phone, tap the mode icon to select Programming Mode. This feature is only available on Wi-Fi-enabled versions: standalone non-Wi-Fi units cannot use it.)

7. Night Mode:

Night Mode refers to turning off the backlight. The default Night Mode setting is OFF (You can adjust the backlight on/off times via the app.)

8. Open-window detection

Activation: Room temperature drops by 6°C within 4 minutes, heating stops
Deactivation: Room temperature rises by 3°C / 48 minutes elapsed / manual activation (three methods). Once window detection mode is enabled, meeting any one of these three conditions triggers exit from window detection mode.

Set up your weekly schedule in your app

In the weekly schedule, there are 7 days in a week, with 6 timeslots each day. You can set edits for each of the 6 time slots on every day of the week.

Tap to switch dates. Long press to copy current settings.														
Period	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp
 Period 1	06:00	20°C	06:00	20°C	06:00	20°C	06:00	20°C	06:00	20°C	06:00	20°C	06:00	20°C
 Period 2	08:00	16°C	08:00	16°C	08:00	16°C	08:00	16°C	08:00	16°C	08:00	16°C	08:00	16°C
 Period 3	11:30	16°C	11:30	16°C	11:30	16°C	11:30	16°C	11:30	16°C	11:30	16°C	11:30	16°C
 Period 4	12:30	16°C	12:30	16°C	12:30	16°C	12:30	16°C	12:30	16°C	12:30	16°C	12:30	16°C
 Period 5	17:00	22°C	17:00	22°C	17:00	22°C	17:00	22°C	17:00	22°C	17:00	22°C	17:00	22°C
 Period 6	22:00	16°C	22:00	16°C	22:00	16°C	22:00	16°C	22:00	16°C	22:00	16°C	22:00	16°C

This feature is only available on the mobile app. Open the thermostat interface on your phone, tap "Settings," then select "Weekly Programming Settings." (This feature is only available on Wi-Fi-enabled models. It is not available on standalone non-Wi-Fi versions.)

Advanced options settings

While the device is powered off, press and hold the  and  buttons simultaneously for 5 seconds to enter Advanced Settings. Press the  button to navigate to the next option. Use the  and  buttons to adjust settings. Press the  button to exit Advanced Settings.

Display	Function	Setting And Options	Default
01	Temperature Calibration	Use the  and  keys to adjust the temperature within the range of -9.9 to 9.9	-1
02	Sensor Selection	IN: internal sensor selection OUT: external sensor selection. ALL: both internal and external sensors selected	IN
03	Modify Temperature Limit Value	Use the   keys to adjust the range from 25°C to 95°C.	60
04	Temperature differential	Use the   keys to adjust within the range of 0.5-10°C	1
05	Anti-Freeze	Use the   keys to enable it and display ON.	OFF
06	Night Mode	Night mode refers to turning off the backlight. You can adjust the backlight activation or deactivation times in the app.)	OFF

Display	Function	Setting And Options	Default
07	Output Main/Reverse	Set primary/secondary reverse Adjust 00 indicates primary reverse 01 indicates secondary reverse	00
08	Backlight Brightness	01:Low brightness 02:Medium brightness 03:High brightness	03
09	Maximum set temperature	Use the up/down keys to adjust within the range of 15-95°C	60
10	Key Sound	ON:Turn ON OFF:Turn OFF	ON
11	Open-window detection	Start:Room temperature drops by 6 °C within 4 minutes,heating stops. Shutdown:1.Room temperature rises by 3°C 2.48 minutes elapsed 3.manual window opening mode activated.Meeting any one of these three conditions triggers exit from window opening mode.	OFF
12	Power-Off Memory	0: Power-off memory 1: Power-on default startup 2: Power-on default shutdown	0
13	Factory Reset	Restore factory default settings: — Press and hold the  key for 5 seconds to display: — — — Press  key again to confirm and exit. The factory reset is now complete.	—

About WIFI connection

Before using the WIFI temperature controller for the first time, you must set the WIFI value number and configuration via your smartphone or tablet, which will allow communication between your connected devices.

WIFI connection: When the thermostat is turned on, press and hold the up button for 5 seconds, the WIFI icon flashes on the thermostat display, and the thermostat enters the code matching state.

Note : Bluetooth thermostat, please turn on the phone's Bluetooth

1. APP download

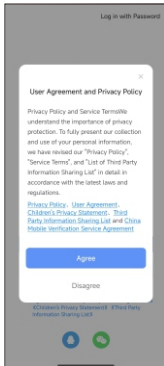
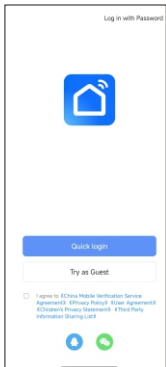
Search for "Tuya Smart/Smart Life" in each APP market or scan the following QR code to download this software:



【Smart Life】 App

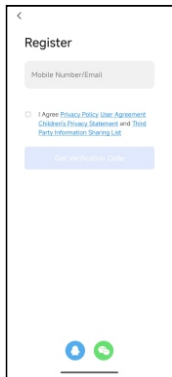
2. Register an account

If you do not have an APP account, you can choose to register or log in via SMS verification code. Click "Create New Account" to enter the privacy policy page of Smart Life Platform. After clicking Agree, you will formally join the registration page of your mobile phone number.



The system automatically determines the current country/region, or you can manually select the country/region, enter your phone number or email address, and click "Get the Verification Code." Enter the received verification code. Then enter the password.

Click "Finish" to register successfully.



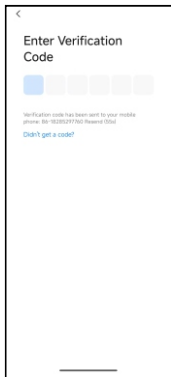
Register

Mobile Number/Email

☐ I Agree [Privacy Policy](#) [User Agreement](#) [Children's Privacy Statement](#) and [Third Party Information Sharing List](#)

Get Verification Code

Navigation icons: Home, Search, Add, Profile



Enter Verification Code

Verification code has been sent to your mobile phone: 86-1828527750 (Reserved 00s)

Didn't get a code?

Navigation icons: Home, Search, Add, Profile



Set Password

Password

Use 6-20 characters with a mix of letters and numbers

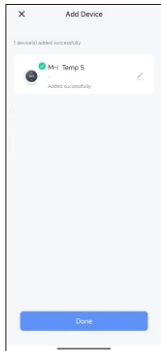
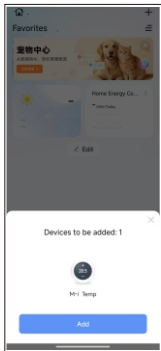
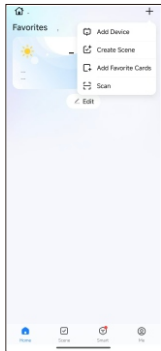
Done

Navigation icons: Home, Search, Add, Profile

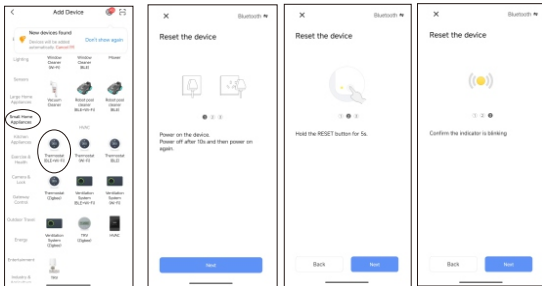
3. Add device

1:(Bluetooth connection) Turn on the mobile phone's Bluetooth, turn the device on, and enter the Smart Life. Click "Add Device" or "+" on the top right corner of the APP homepage, and enter the "Add Device" interface. It will prompt: find the device to be added and follow the prompts.

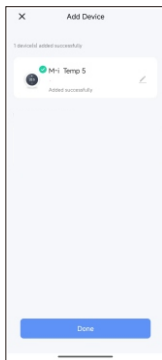
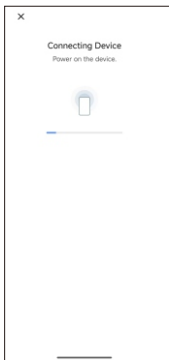
2:"Automatic discovery": Search for devices, and add widgets as prompted on the phone page



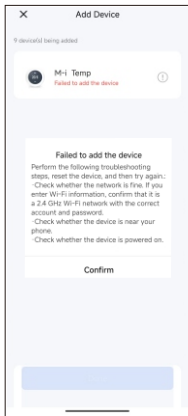
3:(WIFI connection) When the thermostat is turned on, press and hold the up button for 5seconds, the thermostat display will show Now the WIFI icon flashes (slow flashing), and the thermostat enters the status of codematching.Find the temperature control product (Bluetooth + WFI model) in the (small household appliances). In the specied network configuration mode, click the confrmation button onthe page, select the 2.4 Ghz WIFI that can connect to the Internet in the working area of the device. and enter it.



In that case, the APP for the network configuration process is shown in Figure I. and the network configuration successfully displays the interface. The device's name with successful network configuration can be modified, and the room's location can also be selected.



If the network configuration fails, the APP will display the page as shown in the figure below, and you can choose to add it again or view the help. **Note:** Please confirm whether the thermostat enters the code matching state if the connection fails.



4. Thermostat APP interface display

