TGR86 WIFI HEATING THERMOSTAT



I. Product Summary:

TGR86 WiFi 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.

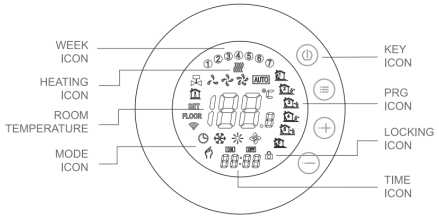
II. Technical Parameter:

Power Supply	100 ~ 240V
Current Load	≤3A (water heating/gas boiler) ≤16A(electric heating)
Power Consumption	<1W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	5-95℃
Floor Set Temp. Range	5-60℃
Accuracy	±1℃
Dimension	86x90x14mm
Ambient Temp.	0-45℃,5-95%RH(Non-condensing)
Storage Temp.	-5~55℃
Timing Error	<1%

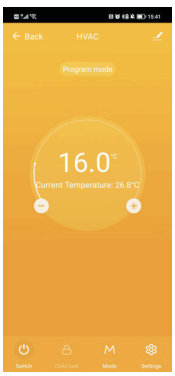
III.Main Functions and Characteristics

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+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

IV. User Interface Explanation



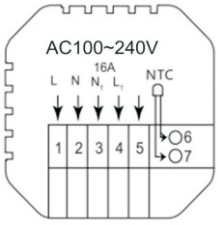
V. User Interface Explanation(Phone Port)



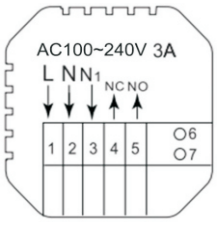
VI. Model Spec

Model	Current Loading	External Sensor	Week Program	Controlled Objects
TGR86WIFI-EP	16A	✓	✓	For electric heating appliances
TGR86WIFI-WP	3A		✓	For water heating appliances
TGR86WIFI-WPB	3A		✓	For gas boiler

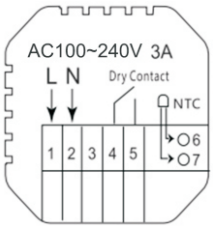
VII.Wiring Digram



TGR86WIFI-EP



TGR86WIFI-WP



TGR86WIFI-WPB

VIII. Thermostat Operation Instruction

1. Setting Power on/off
Press ⏻ to turn on/off the power.

2. Setting Temperature
Press ⊕⊖ to set the temperature.

3. Setting the Clock
Long press ⏻ and ⊕ to set minute, hour and week.
Press ⊕⊖ for adjusting.

4. Setting the Manual Mode.
Manual mode means non-programmable mode.
Press ☰ then ✋ will display in the screen, it is in manual mode.
Press ⊕⊖ to set the temperature.

5. Setting the Child Lock
Long press ⊕⊖ to enter into child lock mode, 🔒 will display.
Long press ⊕⊖ again, the child lock will be disappeared.

6. Setting the Programmable Mode.
Press and hold ☰ into programmable mode. 12345 and time will display.
12345 display in the position of week means 5+2;
Press ⊕⊖ to change the time.
Press ☰ to do the temperature adjustment.
Press ⊕⊖ to change the temperature;
Press ☰ to do the next period adjustment.
Press ⏻ to exit and save.

If you want to make temporary adjustment in any period, press ⊕ or ⊖, then ✋🕐 will display. When finish the setting, all will confirm automatically.

Press ☰ to switch operation between manual mode and programmable mode.

Period		Period Icon	Defaulted Time	Defaulted Temp.
Week	1		6:00	20℃
	2		8:00	16℃
	3		11:30	16℃
	4		12:30	16℃
	5		17:30	22℃
	6		22:00	16℃
Weekend	1		8:00	22℃
	2		23:00	16℃

Remark:
The defaulted temperature of period3 and period4 is the same as period2. Please change it according to the request.

7. Advanced Setting

In the state of power-off, press the ☰ key and the ⏻ key for 5 seconds to enter the advanced option setting.
Press ☰ to enter the next option, press ⊕ and ⊖ to adjust, and press ⏻ to exit.

Display Code	Function	Setting And Options	Factory Defult
1ADJ	Temp. compensation	-9.9-9.9℃	-2℃
2SEN	Sensor selection	IN: Internal sensor OUT: Floor sensor ALL: Both internal sensor and floor sensor	IN
3LIT	Modify the temp. limit	5-60℃	35℃
4DIF	Temp. difference start	0.5-10℃	1℃
5LTP	Antifreeze function	OFF：Close anti-frozen ON：Open anti-frozen	OFF
6PrG	Weekly programming mode	0: 7 days programmable 1: 6+1 programmable 2: 5+2 programmable	2
7rLE	Primary and secondary reverse selection	00: close the main and auxiliary reversal 02: auxiliary reversal	00
8dLy	Passive linkage output delay time	0-5min	0
9HIT	Set upper temp. limit	35-95℃	60
RFAC	Restore factory defaults	long press up button to adjust the display "---", press power button to restore the factory settings	-

Sensor error:
Please select the right sensor mode. If select the different mode or there is error of sensor, Err will display on the LCD screen, the thermostat will stop heating till the problem is solved.

IX. Phone Port Operation Instruction

Before the WIFI thermostat for the first time, you should set the WIFI signal and configuration through your samrt phone or tablet to allow communication between your connected devices.

When the thermostat is on, long press ⊕ button for 5 seconds, and the thermostat display will come out. Now the WIFI icon flashes, at this time, the thermostat into the state of code.

1. Install APP on phone

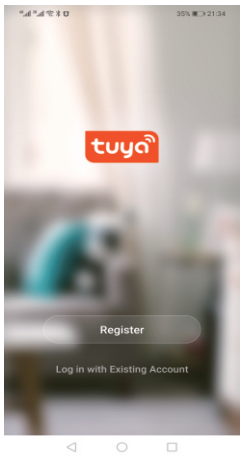
For iOS system: Login in App Store, search "Tuya Smart", you can download it on your iphone.

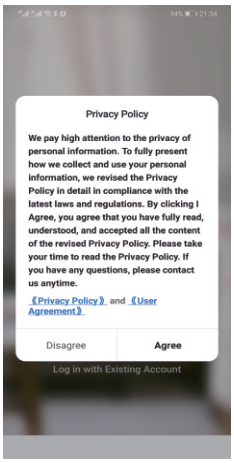
For Andriod system: Login in Google Paly, search " Tuya Smart", you can download it on your phone.

Or scan below code to download:

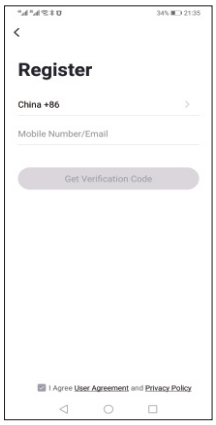
2. Register Account

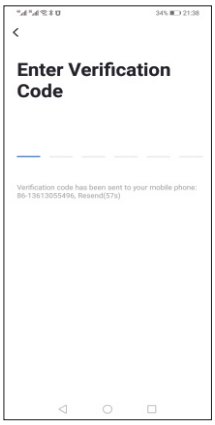
If you do not have an APP account yet, you can choose to register or log in via SMS verification code. Click "Creat a new account", you will enter the Tuya Smart Platform Privacy Policy page. After you click Agree, you will officially enter the mobile phone registration page.

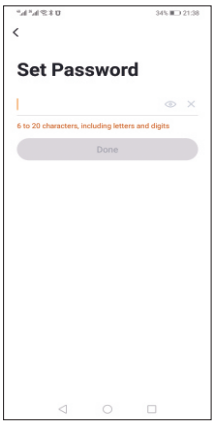




The system automatically determines the current country/region. You can also select the country/region manually. After entering your mobile phone number or email address, click "get verification code". Enter the received verification code, then enter the password, and click "Finish" to register successfully.





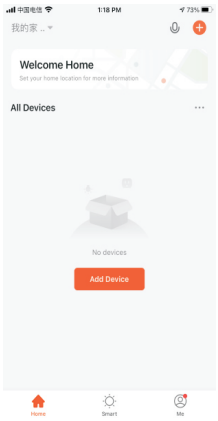


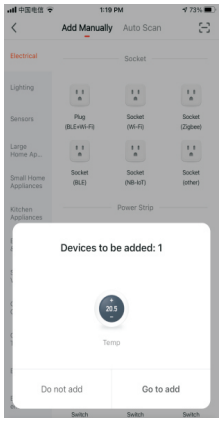
3.Add device

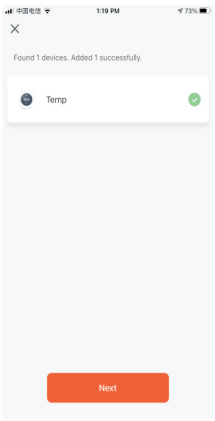
(**Bluetooth connection**)

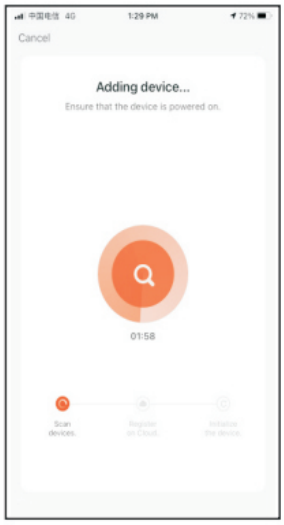
1: Turn on the mobile phone's Bluetooth, turn the device on and enter the Tuya APP. Click "Add Device" or "+" on the top right of the APP homepage to enter the "Add Device" page. It will prompt: find the device to be added (Figure 2) and follow the prompts.

2. “Automatic discovery”: Search for devices (Figure 3), and add widgets as prompted on the phone page.











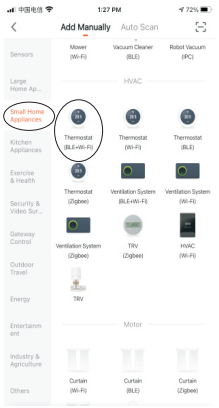
(**WIFI connection**)

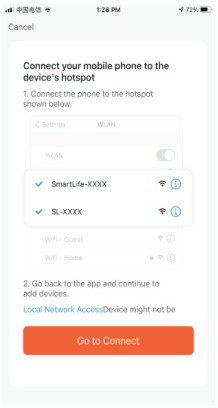
When the thermostat is turned on, press and hold the ⊕ button for 5 seconds, the thermostat display will show.

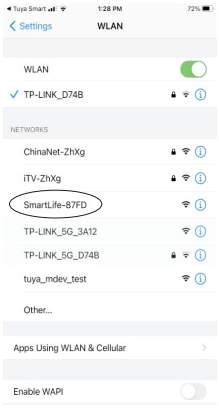
Now, the WIFI icon flashes (slow flashing), and the thermostat enters the status of code matching.

Find the temperature control product (Bluetooth + WIFI model) in the “small household appliances. In the specific network configuration mode, click the configuration button on the page, select the WIFI that can connect to the Internet in the working area of the device, and enter it.

WIFI password, click “Next”, click according to the page prompt (Figure 2), “Go to Connect”, and follow the instructions to find the prompt content (Figure 3), click “Prompt content” and return to the Tuya APP to enter the network configuration process.





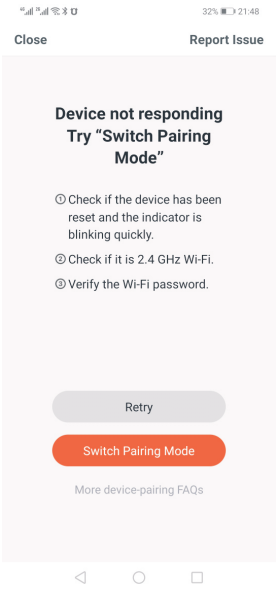


In that case, the APP for the network configuration process is show (Figure 1), and the network configuration successfully display the interface (Figure 2).

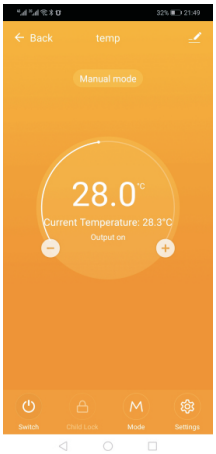
The device’s name with successful network configuration can be modified and the room’s location can be selected.

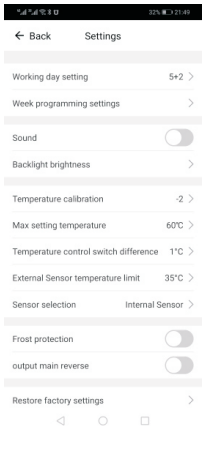
If the distribution network fails, the APP will display the page shown in the figure below. You can choose to add or view the help again.

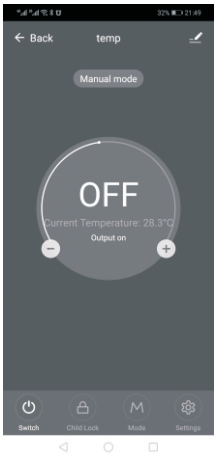
Note: if the connection fails, please confirm whether the temperature control device has entered the code matching state.



4. Thermostat APP interface display





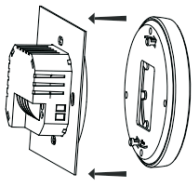


X. Installation Instruction

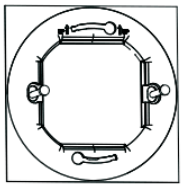
This product is suitable for standard 80*80mm wall box and 60 mm european round box.



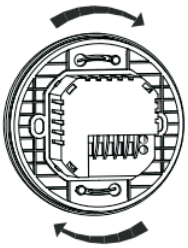
(1)



(2)



(3)



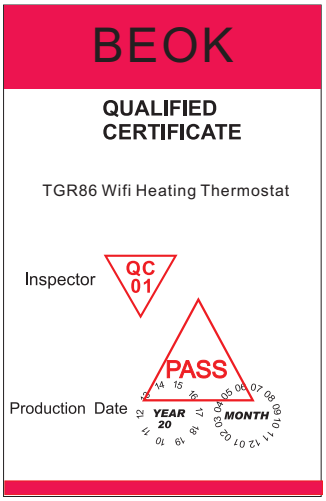
(4)

1.Slide the mounting plate upward in this direction.

2. Remove the mounting plate in this direction.

3. Fix the mounting plate on the cassette with screws.

4. After installation, buckle the product in this direction.



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.

XI. 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	TGR86WIFI-EP	TGR86WIFI-WP	TGR86WIFI-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.