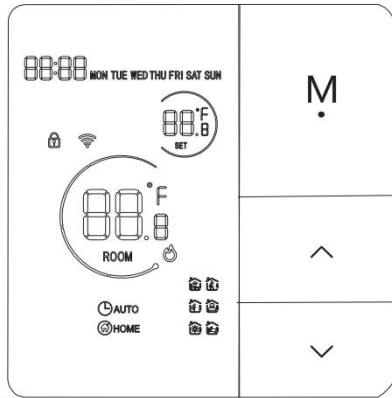


TGP508 WIFI THERMOSTAT USER GUIDE



THIS THERMOSTAT IS SUITABLE FOR WATER HEATING, ELECTRIC HEATING AND GAS BOILER

Welcome

Thank you for your trust and support. By adopting higher-end technology and more perfect technology, your new thermostat will provide you with the right temperature environment every day in the future, making your life more comfortable and your living environment more stylish and beautiful. For detailed instructions on the installation and use of this thermostat, please read this manual carefully. Please contact a professional to install the thermostat for you and install and use the product to the extent permitted by law.

Application

Intelligent digital temperature controller is a floor heating system suitable for room temperature control and household temperature control. It controls the operating state of the floor heating equipment by comparing the ambient temperature with the set temperature, which improves comfort and achieves energy saving. This digital temperature controller adopts microcomputer control technology and is equipped with full-screen display touch buttons, which is elegant in design and easy to use. The thermostat has manual automatic, programmable and state memory functions.

Technical Data

- | | |
|--|--|
| 1. Temperature Sensor :NTC | 2.Temperature accuracy : $\pm 1^{\circ}\text{C}$ |
| 3. Power consumption: < 1W | 4. Voltage: AC100-240V 60HZ |
| 5. Load current: water heater 3A / electric heater 16A | |
| 6. Temperatures Setting :5-60 $^{\circ}\text{C}$ | |

Product packaging

Thermostat host	1 PC	Qualification certificate	1 PC
Sensing line (optional)	1 PC	Manual	1 PC
Screw	2 PCS		

Product Model

WP Plumbing 3A

EP Electric Heating 16A

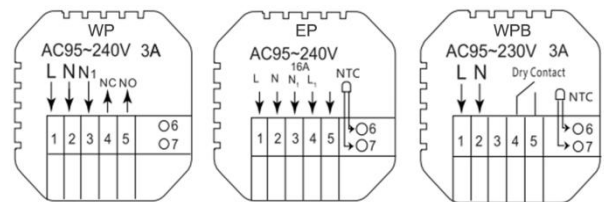
WPB linkage, gas boiler 3A

User Notes

1. Please read this manual carefully. Improper operation may damage the product or cause dangerous conditions.
2. The installation personnel must be well-trained and experienced service technicians.
3. After installation, please read this manual carefully and operate the product according to the instructions.

Caution: Risk of electric shock or equipment damage.

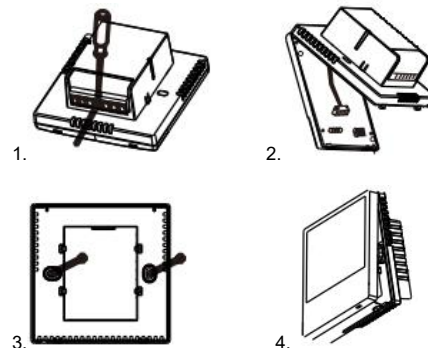
Wiring Diagram



Note: WP for water heating; EP for electric heating; WPB for gas boiler

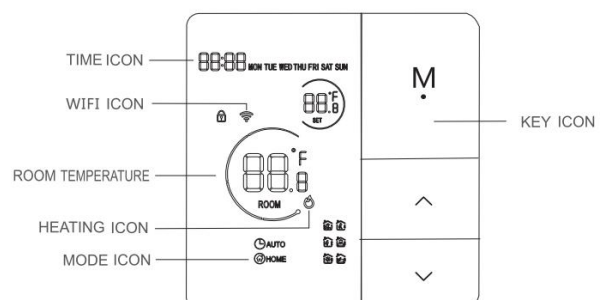
Installation procedure

This product is installed with a standard 86 control switch (in compliance with European regulations).



1. Connect the power box according to the wiring diagram.
2. Separate the power supply from the control board cable.
3. Screw the power supply into the box of 86.
4. Connect the power board to the control board line, and align the buckle at 30 degrees to complete the installation.

Description of display & Icon



Operating Instruction

1. Power on/off: Long press **M** key for 3 seconds to turn on/off the thermostat.
2. Short press the **M** key to switch between manual and Away modes.
3. Simultaneously press and hold the  and  keys for 3 seconds to add or cancel the child lock.
4. Long press **M** key and  key to enter the clock setting, press **M** key to switch settings item, press  or  keys to adjust the value of each parameter.
Note: the time of WIFI model will be Automatically gets Internet time
5. In the power off state, long press  key to detect the ground temperature.
Note: only applicable to thermostats connected to external sensor.

Time programming instructions

Long press **M** key and  key to enter the programming setting, short press **M** key to switch the option, press the  key or  key to adjust each option parameter. Long press the **M** key to exit and save.

	OPTION	ICON	TIME	ADJUST	DEFAULT	ADJUST
workday	1		06:00		20℃	
	2		08:00		16℃	
	3		11:30		16℃	
	4		12:30		16℃	
	5		17:00		22℃	
	6		22:00		16℃	
Holiday	1		08:00		22℃	
	2		23:00		16℃	

Advanced options

In the POWER OFF state, press the **M** key and  key for 3 seconds to enter the advanced option settings.

Press the **M** key to enter the next option, then press the  or  key to adjust options, and long press the **M** key to exit the advanced option setting mode.

1	Temperature compensation	The default value of the calibration room temperature is -2℃. Press the up and down keys to adjust. The adjustable range is 9.9℃ to -9.9℃.
2	Sensor selection	The temperature sensor is selected as IN by default. Press the up and down keys to adjust as IN respectively, indicating that the internal.
3	Modify the temperature limit	The default temperature limit value is 35℃. Press the up and down keys to adjust the range from 5℃ to 60℃.
4	Temperature difference start	The default temperature difference is set to 1℃. Press the up and down keys to adjust the range to 1-10 degrees.
5	Antifreeze function	Set the default anti-freeze function to OFF, display OFF, press the up key to turn on anti-freeze and display ON.
6	Holiday option and turn off weekly programming	Set the default rest day as double OFF. Press the up and down keys to adjust it to double OFF (1-5), single OFF (1-6), no OFF (1-7) and turn off week programming (OFF).
7	Primary and secondary reverse selection	Set the default main and auxiliary reversal to 0. Press the up and down keys to adjust 0 to turn off the main and auxiliary reversal. 01 means auxiliary reverse, 02 means auxiliary reverse, 03 means main and auxiliary reverse, shutdown and antifreeze is not on, stop output.
8	Sound	ON: turn on the sound OFF: turn off the sound

9	Set upper temperature limit	The default value of the set temperature upper limit is 60℃, and the adjustment range is 35-95℃ by pressing the up and down keys.
10	Backlight Brightness	00: Turn off the backlight 01: Micro brightness 02: Medium brightness 03: High brightness
11	Restore Factory Defaults	Set to restore the factory default setting to display "--", Press the up button to adjust the display "---", press the enter button to restore the factory settings

About WIFI connection

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

WIFI link: Bluetooth thermostat, please turn on the phone's Bluetooth

WIFI connection: When the thermostat is on, long press  key for 5 seconds, the WIFI icon flashes on the thermostat display, and the thermostat enters the code matching state.

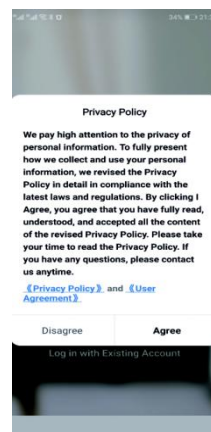
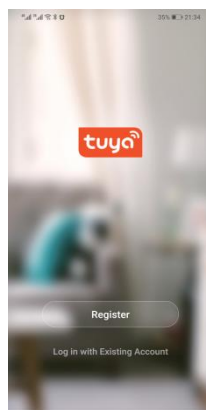
1. Download the APP

Search for "Tuya" in App market or scan below QR Code to download

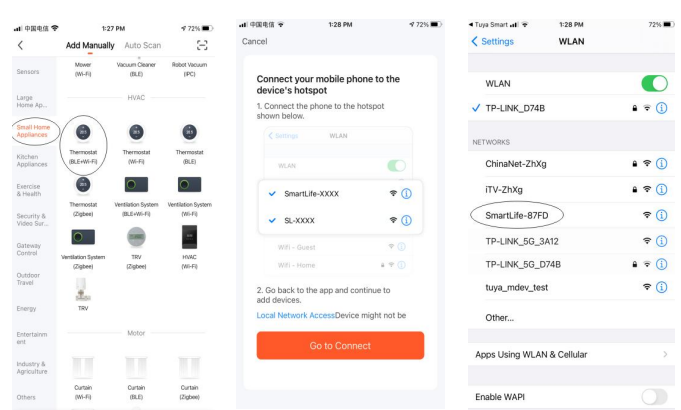


2. Register Account

If you don't have an APP account yet, you can choose to register or log in via SMS verification code. Click "Create 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.



A screenshot of a mobile application interface. At the top, the status bar shows the time 3:21 and battery level 32%. The app header has a 'Close' button on the left and a 'Report Issue' button on the right. The main heading is 'Device not responding' in bold black text, followed by 'Try "Switch Pairing Mode"' in a slightly smaller bold black font. Below this, there is a list of three instructions, each preceded by a circular icon with a dot: 1. 'Check if the device has been reset and the indicator is blinking quickly.' 2. 'Check if it is 2.4 GHz Wi-Fi.' 3. 'Verify the Wi-Fi password.' At the bottom, there are two large, rounded rectangular buttons: a light blue one labeled 'Retry' and a red one labeled 'Switch Pairing Mode'. Below the red button is a link that says 'More device-pairing FAQs'.

The image displays three screenshots of the Tuya Smart app interface for a smart thermostat.

Left Screenshot (temp screen): The screen has an orange background. At the top, it shows the status bar with signal strength, Wi-Fi, and battery icons, and the time 12:49. Below the status bar are 'Back' and 'temp' buttons, and a 'Manual mode' button. The main display is a large circle showing '28.0°C'. Below the circle, it says 'Current Temperature: 28.3°C' and 'Output on'. At the bottom is a navigation bar with icons for Switch, Child Lock, Mode, and Settings.

Middle Screenshot (Settings screen): The screen has a white background. At the top, it shows the status bar with signal strength, Wi-Fi, and battery icons, and the time 12:49. Below the status bar are 'Back' and 'Settings' buttons. The screen lists various settings: Working day setting (5+2), Week programming settings, Sound (toggle), Backlight brightness, Temperature calibration (-2), Max setting temperature (60°C), Temperature control switch difference (1°C), External Sensor temperature limit (35°C), Sensor selection (Internal Sensor), Frost protection (toggle), output main reverse (toggle), and Restore factory settings.

Right Screenshot (temp screen): The screen has a dark grey background. At the top, it shows the status bar with signal strength, Wi-Fi, and battery icons, and the time 12:49. Below the status bar are 'Back' and 'temp' buttons, and a 'Manual mode' button. The main display is a large circle showing 'OFF'. Below the circle, it says 'Current Temperature: 28.3°C' and 'Output on'. At the bottom is a navigation bar with icons for Switch, Child Lock, Mode, and Settings.