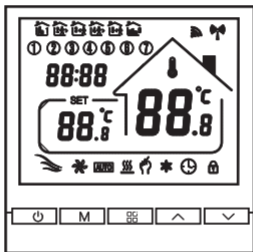


# TOL47 Series Thermostat User Guide



This thermostat is used for water heating, electric heating, or gas boiler.

# Welcome

Thank you for your trust and support!

We have adopted advanced technology and perfect craftsmanship so that your new thermostat will provide you with a suitable temperature environment every day in the future.

For detailed instructions on installing and using this thermostat, please read this manual carefully. Please get in touch with a professional to install the thermostat for you.

Besides, please install and use this product within the scope of the law.

## Product Packaging

Thermostat host	1PC
Manual	1PC
External Sensor Cable (only EP model)	1PC
Screw	2PCS
Qualification certificate	1PC

## Product Parameters

WP :Water heating 3A

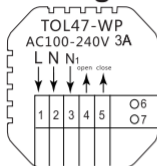
EP: Electric heating 16A

WPB:Linkage; M:Gas boiler 3A

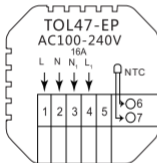
## Electrical Specifications

- 1.Temperature Sensor :NTC
- 2.Temperature hysteresis: $\pm 1^{\circ}\text{C}$  (default) (Adjustable  $\pm 0.5\sim\pm 9.9^{\circ}\text{C}$ )
- 3.Display screen: LCD
- 4.Working environment:  $-5\sim 50^{\circ}\text{C}$  (default)
- 5.Display range:  $0\sim 51^{\circ}\text{C}$  (default)
- 6.Temperatures Setting: $5\sim 60^{\circ}\text{C}$  (default)
- 7.Voltage: AC100-240V,50/60Hz
- 8.Load current: water heater 3A; electric heater 16A; gas boiler 3A;
- 9.Self-consumption power: < 1W

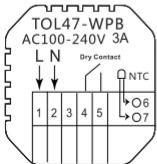
# Wiring Diagram



**WP:**water heating  
(External sensors cannot be connected)

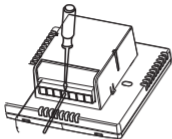


**EP:**for electric heating;

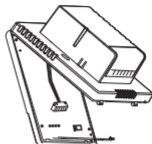


**WPB** for gas boiler  
(for boilers connected via dry contact)

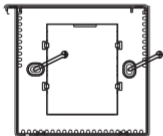
# Installation Procedure



1. Connect the power box according to the wiring diagram.



2. Separate the power supply from the control board cable.



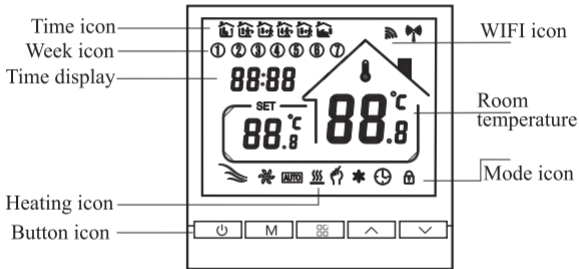
3. Screw the power supply into the box of 86.












4. Connect the power board to the control board line, and align the buckle at 30 degrees to complete the installation.

**Adaptable mounting box: 86x86mm** square mounting box  
**60mm** European round box


# Description of display & Icon












# Operating Instruction



1. Power on/off: press  to turn on/off the thermostat
2. Press the **M** key to switch between Manual and Auto mode
3. In the Auto mode, press  and  key to adjust the setting temperature. It will enter temporary auto mode and will resume auto mode at the next programming session.
4. Press the  key to enter the clock setting, press the mode key **M** to switch the setting options, and press the  and  key to adjust each parameter value. **Note:** The time of the WIFI model will automatically obtain the Internet time.
5. Simultaneously press and hold the  and  keys for 5 seconds to add or cancel the childlock.
6. WIFI link: When the thermostat is turned on, press and hold the  button for 5 to 8 seconds, the WIFI icon flashes on the thermostat display, and the thermostat enters the code matching state.

# Weekly Programming Guide

Long press the **M** key to enter the programming setting, short press the **M** key to switch options, press the  $\wedge$  or  $\vee$  key to adjust the parameters of each option, and press the  key to exit and save setting.

key	Options	Icon	Time	Time Adjustment	Defaults	Temperature adjustment	
	Working days	1		06:00	$\wedge$	20°C	$\wedge$
		2		08:00		16°C	
		3		11:30		16°C	
		4		12:30		16°C	
		5		17:00		22°C	
		6		22:00		16°C	
	Holidays	1		08:00	$\vee$	22°C	$\vee$
		2		23:00		16°C	

# Advanced Option Setting

When **Power Off**, press the **M** key and the  key for 5 seconds to enter the advanced setting. Press the **M** key to enter the next option, then press the  $\wedge$  and  $\vee$  key to adjust. Then press the  key to exit the advanced option setting.

01	temperature calibration	The default value of the calibration room temperature is $-1.5^{\circ}\text{C}$ . Press the $\wedge$ or $\vee$ key to adjust it within the range from $9.9^{\circ}\text{C}$ to $-9.9^{\circ}\text{C}$ .
02	Sensor selection	The temperature sensor selection defaults to IN. Press the $\wedge$ key or the $\vee$ key to adjust it. <b>IN</b> : Use the internal sensor <b>OUT</b> : Use the external sensor <b>ALL</b> : Use both internal and external sensors. <b>Please note</b> : If no external sensor is connected, do not set it to ALL or OUT, otherwise <b>Er</b> will appear on the screen.
03	Measured temperature extreme value Modification	The limit temperature value is $60^{\circ}\text{C}$ by default. Press the $\wedge$ or $\vee$ key to adjust it within the range from $35^{\circ}\text{C}$ to $60^{\circ}\text{C}$ .
04	Temperature hysteresis	The default setting temperature hysteresis is $1^{\circ}\text{C}$ ; press the $\wedge$ or $\vee$ key to adjust it within the range from $0.5^{\circ}\text{C}$ to $10^{\circ}\text{C}$ .

05	Antifreeze function	Set the antifreeze function as OFF by default press the ^ key to turn on the antifreeze function
06	Holiday option and turn off weekly programming	5: Saturday, Sunday as rest day 6: Sunday as rest day 7: No rest day OFF: Turn off the programming
07	Main and auxiliary reverse selection	Set the main and auxiliary reverse to 00 by default. Press the ^ key or v key to adjust 00 main reversal 01 to indicate the auxiliary reverse. <b>Note:</b> Adjustments are not recommended for non-professionals
08	Backlight brightness	00: turn off the backlight    01: low brightness 02: medium brightness    03: high brightness <b>(only WiFi model)</b>
09	Set temperature upper limit	Set the upper limit of the temperature to 60 °C press the ^ key or v key to adjust it within the range from 15°C to 95°C.
10	Reset	Set to restore factory setting. The default display is -, press the ^ key to display "---" and press the ⏻ key to restore the factory setting

# WIFI Connection

## Preparation before Wi-Fi connection

APP download and account registration:

### 1. Download APP

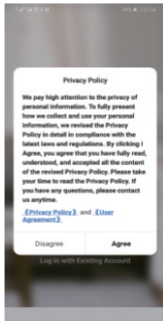
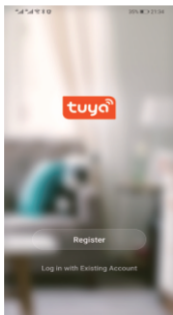
Search for "Tuya Smart" in App market or scan below QR Code to download.



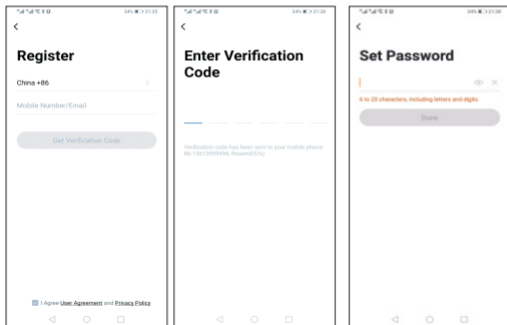
## 2.Register Account

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 Privacy page of Tuya Smart Platform.

After you click Agree, you will formally join the registration page of your mobile phone number.



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



## WIFI connection

1. Turn on your mobile phone's Bluetooth and wifi (please make sure your mobile phone connects to **2.4Ghz Wi-Fi**).

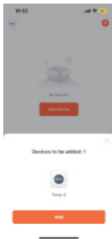
2. Activate the thermostat WiFi module: When the thermostat is turned on, press and hold the  $\wedge$  button for 5 seconds, the WIFI icon flashes on the thermostat display, and the thermostat enters the code matching state.

### 3. Add Device

There are 3 ways to add a device

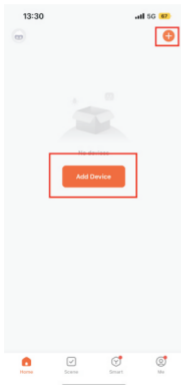
Method 1. Enter the Tuya APP. The main page automatically pops up

"Device to be added" (as picture 1) and click "Add".



picture 1

Method 2: Enter the Tuya APP, Click "Add Device" or "+" (as picture 2) on the upper right corner of the APP homepage, and enter the "Add Device" interface. It will prompt: find the device to be added (as picture 3) and follow the prompts.



picture 2



picture 3

Method 3: Enter the Tuya APP, Click "+" on the upper right corner of the APP homepage, Find the temperature control product (Bluetooth + WIFI model) in the (small household appliance). (as picture 4)

As picture 5 ignore the content of the page and tap **Next**.  
As picture 6 ignore the content of the page and click **Next**  
As picture 7 tick confirm the indicator is blinking click **Next**



picture 4



picture 5



Hold the RESET button for 5s.



picture 6



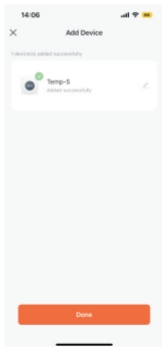
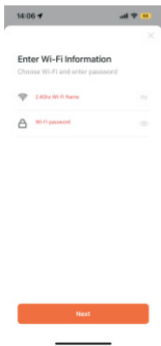
Confirm the indicator is blinking



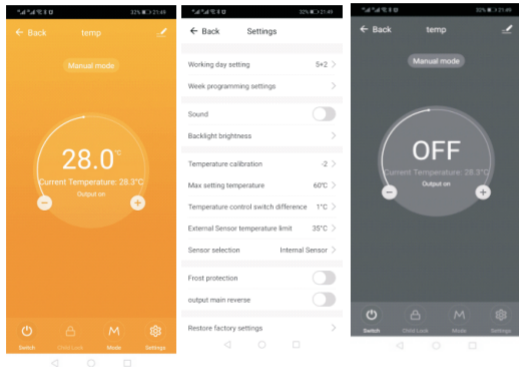
picture 7

#### 4. Enter Wi-Fi information

Enter the name and password of the **2.4Ghz Wi-Fi** (please make sure that the Wi-Fi name and password contain only numbers and letters and not special symbols) Follow the prompts to the next step, you can see the device is being added, and after a few seconds, you will see that the device is added successfully (the length of time will depend on the strength of the wifi signal).



## 5. Display of temperature controller APP interface



If you encounter any problems during the use of the product, please feel free to contact us through the purchase platform, we will try our best to help you.