

# USER GUIDE

## TERMOFOL TF-WIFI



Welcome. Thank you for your purchase.

Your new thermostat will provide uniform and comfortable temperature control throughout every room in your property. We bring together technology, craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design.

Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please also ensure a suitably qualified person installs your thermostat and complies with all local regulations

In the box you will find:

Thermostat	1pc	QC Passed	1pc
Screws	2pc	Floor Sensor (2.5m)	1pc
User Guide	1pc	(Floor sensor is Optional)	

## ABOUT YOUR THERMOSTATS

The **TERMOFOL TF-WIFI** range has been developed to control electric underfloor. These units are designed for use in commercial, industrial, civil and domestic properties.

## FEATURES

### On Appearance

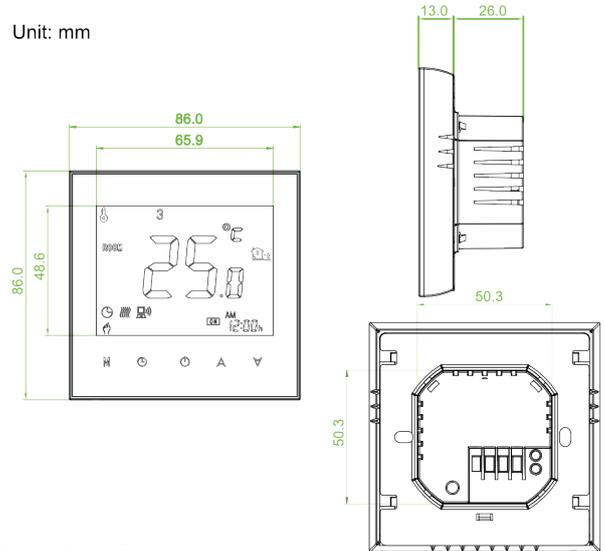
- 65.9 x 48.6mm display area helps to protect your eyes.
- Touch buttons to make simple operation.
- The visible thickness above the wall is only 13mm.
- Rotation to connect gives you easy installation.
- 86mm hidden box and european 60mm round box is suitable.

### On Functionality

- Powerful functions are available such as Modbus/WIFI etc,
- 0.5°C Accuracy keeps temperature within the level you set.
- Data memory when power is off.
- 5+2 six periods programmable maximize comfort and economy.
- Create thermostat group to Centralized control
- Interated with Amazon Echo, Google Home, Tmall Genie, IFTTT.
- All setting languages synchronize your time zone, address and language.
- No limit to add rooms and support Smart Scene.

## DIMENSIONS

Unit: mm



## TECHNICAL DATA

- Power Supply: 95 ~ 240 VAC, 50 ~ 60HZ
- Current Load: 3A (water heating/water boiler/gas boiler) 16A (electric heating)
- Sensor: NTC3950, 10K
- Accuracy:  $\pm 0.5$  C or  $\pm 1$  F Set
- Temp. Range: 5 ~ 35C Display
- Temp. Range: 5 ~ 99 C
- Ambient Temp.: 0 ~ 45 C
- Ambient Humidity: 5 ~ 95 % RH (Non Condensing)
- Storage Temp.: -5 ~ 45 C
- Power Consumption: <1.5W
- Timing Error: < 1%
- Shell Material: PC +ABS ( Fireproof)
- Installation Box: 86 \* 86mm Square or European 60mm Round Box
- Wire Terminals: Wire 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>
- Protection Class: IP20
- Buttons: Capacitive Touch Buttons

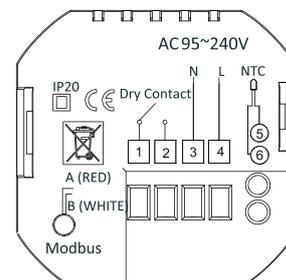
## BEFORE WIRING AND INSTALLING

- Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
- Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
- Installer must be a trained, experienced service technician.
- After installation is complete, check out product operation as provided in these instructions.



**Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry. Disconnect power supply before installation.**

## WIRING



## INSTALLATION

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm pattress box.

Step 1. Keep power off.

Step 2. Remove the mounting Plate by rotating the LCD part. See Fig 1.

Step 3. Connect power supply, load into the appropriate terminals. (see "Wiring your thermostat" for details and Fig 2).

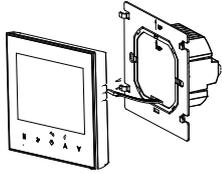


Fig. 1

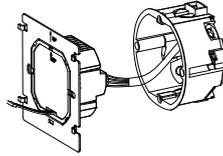


Fig. 2

Step 4. Fix the mounting plate into the wall with screws in the box. See Fig 3.

Step 5. Fasten body of thermostat and the mounting plate through rotating. See Fig 4.

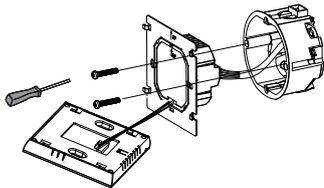


Fig. 3

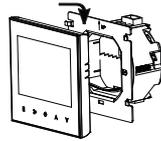


Fig. 4

Step 6. Installation complete.

## HOME SCREEN QUICK REFERENCE



1. Power
2. Temperature Up
3. Temperature Down
4. Time
5. Periods
6. Week
7. Room Temperature
8. Wi-Fi
9. Set Temperature
10. Manual
11. Lock
12. Mode
13. Heating On
14. Valve On
15. Clock
16. Sleep

## OPERATION

During Power On

1. **Power On/off:** Press to turn the thermostat on/off.
2. **Manual & Programmable.** Touch M (mode) to change between manual mode and programmable mode. In manual mode, will show in the bottom left of the screen. In programmable mode, the period icon will show in the right side.
3. **Setting Temperature** In the mode of programmable, set temperature, time and timing on/off could not be adjusted. If the user want to change, please go to manual mode or programmable mode. In the mode of manual, press to set the desired temperature.
4. **Adjusting/Setting the Clock.** Touch the icon to set minute, hour and weekday (1 = Monday, 2 = Tuesday etc.) by using the arrows. Press once more to confirm and exit.
5. **Locking your Thermostat.** Press and hold the for 5 seconds to lock/unlock your thermostat. In item 3 of high senior options, you can select full lock or half lock.
6. **Adjusting/setting the Program Schedules.** When Wi-Fi connection is made, your thermostat will automatically accept the program schedule made via the APP on your device (see below for detailed instructions). To set the program schedules through your thermostat (NOT via your smartphone/tablet) simply follow the instructions as below:  
**Please note: Setting the programme schedule through your thermostat can only be carried out if there is no Wi-Fi connection between your thermostat and smartphone/tablet.**

Touch M to change between manual mode and programme mode. In manual mode, will show in the bottom left of the screen.

In programme mode, touch the icon 4 times until the weekday schedule settings appear (1 2 3 4 5 will show along the top of the screen). Use the arrows to adjust the on time.

Press the icon and arrows to set the time (1st period).

Press the icon and use the arrows to set the off time (2nd period).

Repeat this process for periods 3 and 4.

Press the icon Saturday Schedule settings once more to enter the weekend schedule settings (6 & 7 will show along the top of the screen).

Repeat the above process to set the weekend schedule. Press once more to confirm and exit.

## DEFAULT SETTINGS FOR PROGRAM SCHEDULE

Time display	WEEKDAY (MONDAY-FRIDAY) (123 45 shows on screen)		WEEKEND (SATURDAY) (6 shows on screen)		WEEKEND(SUNDAY) (7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1	06:00	20°C	06:00	20°C	06:00	20°C
Period 2	08:00	15°C	08:00	20°C	08:00	20°C
Period 3	11:30	15°C	11:30	20°C	11:30	20°C
Period 4	13:30	15°C	13:30	20°C	13:30	20°C
Period 5(1+2)	17:00	22°C	17:00	20°C	17:00	20°C
Period 6(3+4)	22:00	15°C	22:00	15°C	22:00	15°C

A separate schedule may be set for weekdays (Mon - Fri) and for weekends (Sat or Sun).

### 7. Checking the Temperature of Floor Sensor

Press and hold the arrow for 5 seconds to display the temp. of floor sensor.

### 8. Return To Factory Default

Press the Restore Manufacturer Defaults, you can reset thermostat. Steps: Open your app - go into your room - click menu on the top right corner - move to the end - Press Restore Manufacturer Defaults. During Power Off

Setting the Functions and Options

When power is off, press and hold M 5 sec. in order to reach system function. Then press M to scroll through the available functions, and use the arrows to change the available options. All settings are confirmed automatically.

CODE	FUNCTION	SETTING AND OPTIONS	DEFAULT
1	Temperature compensation	-7 to +7 C (for internal sensor)	-1
2	Deadzone Temperature	1 ~ 5 C	1
3	Button locking	00: All buttons are locked except power button. 01: All buttons are locked.	01
4	Sensor Types	In: Internal Sensor (to control limit the temp.) Ex: External Sensor (to control or limit the temp.) Ou: Only external sensor AL: Internal/ External Sensor (Internal sensor to control the temp., external sensor to limit the temp.)	AL
5	Min. Set Temp	5-15 C	05
6	Max. Set Temp	15-45 C	35
7	Display Mode	00: Display both set temp. and room temp. 01: Display set temp. only	00
8	Low temperature protection setting	0-10 C	00
9	High temperature protection setting	25-70 C	45
A	Economy Mode	00: Non-energy saving Mode 01: Energy saving mode	0
B	Economy Temperature	0-30 C	20

# ABOUT WIFI

## WI-FI CONNECTION

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings through your smartphone or tablet. This will allow communication between your connected devices.

### Step 1 Download your APP (Fig 1-1)



Fig 1-1



Fig 1-2 IOS



Fig 1-3 Android

### Step 2 Register your account.

Open your app, you will get a piece of notification (Fig 2-1). Click Allow to go into your page of register (Fig 2-2). Press register and enter your phone no. or email (Fig 2-3) then you can get a verification code. Input your password and confirm (Fig 2-4) to complete your registration. If you have an account, please log in.

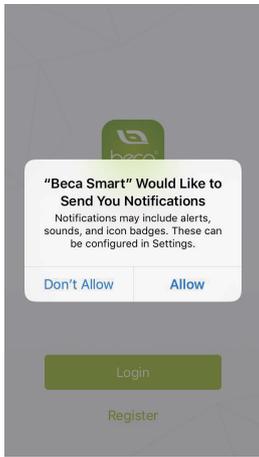


Fig 2-1



Fig 2-3

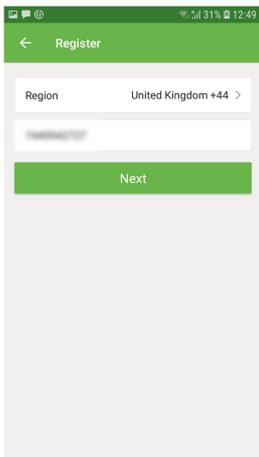


Fig 4-1

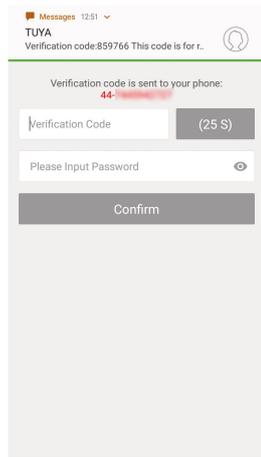


Fig 4-2

### Step 3 Connect your Wi-Fi signal

With power off, press and hold the for eight (8) seconds. The backlight will be on and the icon will flash one time per sec.. Press the on the upper right corner of the page (see Fig 3-1) to add your device. Click Confirm indicator rapidly blink (Fig 3-2) then select your network and back to your app to enter the password of your wireless router (Fig 3-3) and confirm. The app will connect automatically (Fig 3-4). This may typically take up to 5-90 seconds to complete. Your room name could be edited when the device is connected (Fig 4-4).

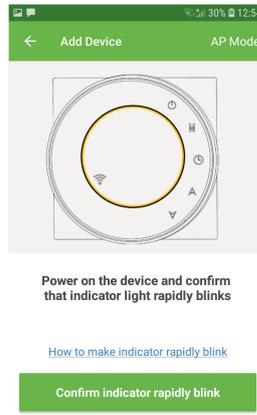


Fig 3-1

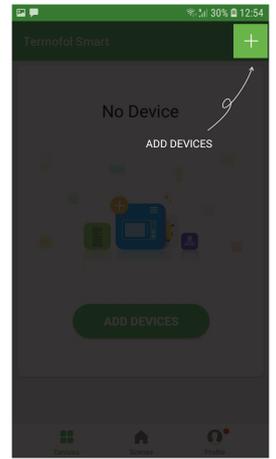


Fig 3-2

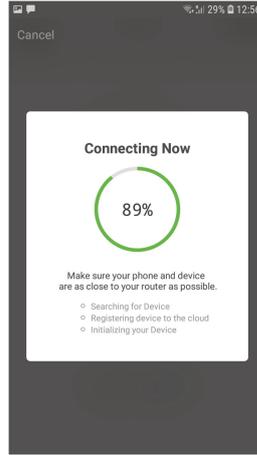


Fig 3-3

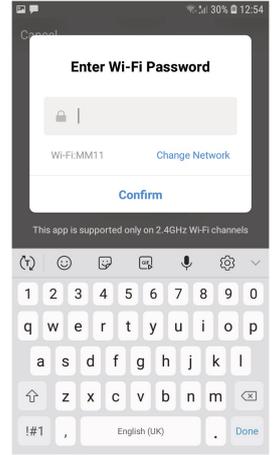


Fig 3-4

This is EZ mode which provides fast network connection between your app and your device. If your router doesn't support it or your Wi-Fi signal is weak or you can not connect by EZ mode, press the AP Mode on the upper right corner in Fig 3-2. If you have connected your thermostat successfully, please ignore the AP setting as below.

### On your thermostat

With power off, press and hold the arrow for eight (8) seconds.

The backlight will be on and the icon will flash one time per sec.. Press and hold the for eight (8) seconds again.

The icon will flash one time every (3) seconds.

Then, go back to the home page of your app

Click Confirm indicator slowly blink (Fig 4-1) then select your network and back to your app to enter the password of your wireless router (Fig 3-3) and confirm. The app will go into the page in Fig 4-2.



Fig 5-1

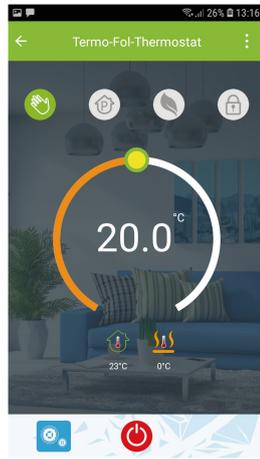


Fig 5-2

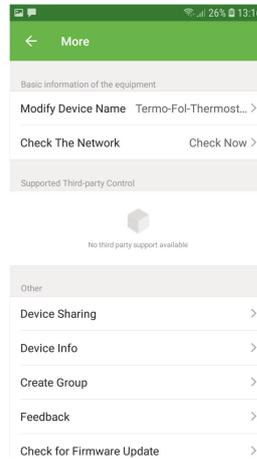


Fig 6-1

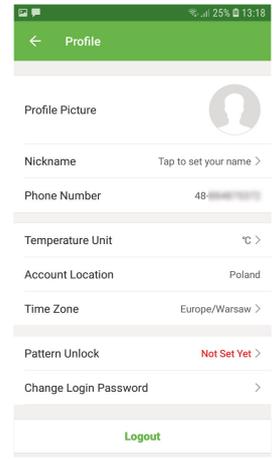


Fig 6-2



Fig 5-3

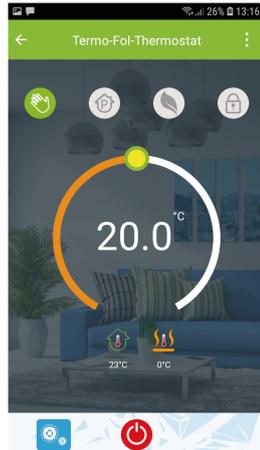


Fig 5-4

Customize your own personal scenes to suit your needs. For example, set your home to automatically turn on thermostat on when you back home (Fig 7-2). Press button into the setting

Step 1: You can set a condition for Task like Temperature below 20 degree, then click Save. (Condition: Temp., Humidity, Wether, PM2.5, Air Quality, Sunrise/Sunset, Device)

Step 2: Add a task. Press to Select Device (Power, Set Temp, Lock i/ lode) to act, then Save. if you want to delete the scene, you can press Press the menu button in the red circle (Fig 5,2) then click Create Group Delete in the end.

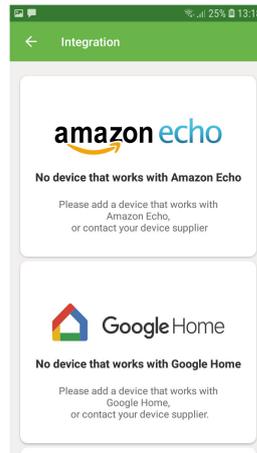


Fig 7-1

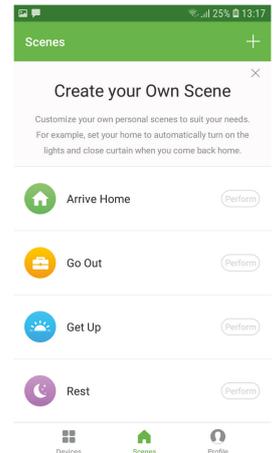


Fig 7-2

When your room is established successfully, it will display on the home screen (Fig 5-1). The round button is to turn on/off your room. Click the line into beginning programming your thermostat. @ Power on/of button, press it, turn on the device, press it again, turn off the device Lock/Unlock button. If button is green, the screen is "Locked", if button is grey, the screen is "Unlocked". Economy button, in this mode, the temperature will keep 20 degrees; this temperature cannot be changed or adjusted. Manual button; in this mode, your heating can be set manually (ie. Not using the pre-programmed settings) Program button. When this button shows, your thermostat is in program mode and will follow any pre-set heating schedule. When in Manual mode, press the button to select mode and vice-versa. (See Fig 5-2)

**Your thermostat carries an 18 months warranty from date of purchase. Senlice outwith the warranty period may incur a charge. More detail please contact with us directly.**

The one who create this group, in this menu page, you can also modify your device name, share your device, get the information of your device.

Way 1: Mentioned in the above.  
Way 2: Click your Profile at the right botton of your main page (Fig 6-Z).

Select Device Sharing then add the account you want to share. You can see the shoring account you have sent and the device you have shared In this shoring page. You don't need to do anything if you are the one shored. You can odd as many as rooms you want. in your profile, click Integration into the using page. Press Use Now > (Fig 7-1) for your Amazon Echo or Google Home or Tmall Genie or IFTIT then you can see the operation steps.

No	Phenomenons	Handling
1	Power is on but without display.	Check if the terminals between LCD panel and Power Unit Box is loosen.
2	Without output but display works.	Use a new LCD panel or new Power Unit Box to replace the old one.
3	Room Temp. Is a little different from	Do temperature calibration in item senior options