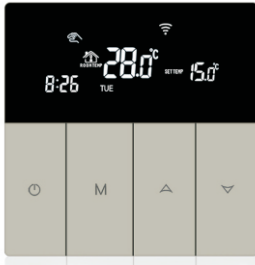


TGP51WIFI TOUCH SCREEN THERMOSTAT



I. Product Summary:

The digital heating liquid crystal temperature controller adopts the most advanced microcomputer control chip in the world, and detects the temperature through a high-precision sensor inside the thermostat. And in real time, compared with the temperature set by the user, the load (electric heating device or valve) is automatically turned on and off to achieve the purpose of maintaining the indoor constant temperature.

II. Technical Parameter:

Power Supply	200 ~ 240V 50 ~60Hz
Current Load	≤3A (water heating) ≤16A (electric heating)
Power Consumption	<0.3W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	5-60°C
Floor Set Temp. Range	5-99°C
Accuracy	±1°C
Dimension	86x86x13.3mm
Ambient Temp.	0-45°C, 5-95%RH(Non-condensing)
Storage Temp.	-5~55°C
Timing Error	<1%

III. Main Functions and Characteristics

1. WIFI for Andriod & 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+1 or 7 days 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. Button Function

- Power on/off;
- M** Mode button: switch manual, automatic time control, temporary manual, long press time, hour, minute, week settings.
- Upper button: temperature plus, plus parameters;
- Lower button: temperature minus, minus parameter.

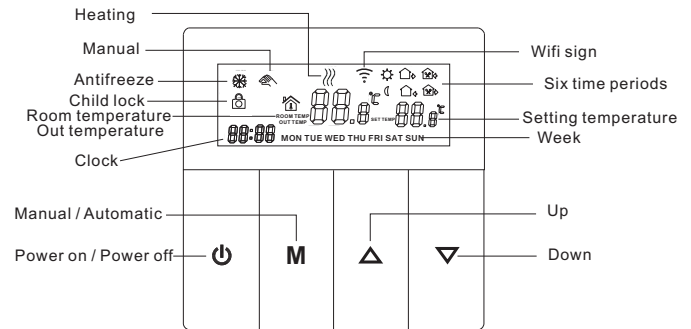
V. Display and Function Description

- Manual control, flashing for temporary manual control, no display for automatic control
- Heating
- The first period, get up in the morning;
- The second time, go out in the morning;
- The third time, go home at noon;
- The fourth time, go out at noon;
- The fifth time, go home at night;
- The sixth period, sleep at night;
- The antifreeze function is turned on.
- Press **M** and unlock or unlock at the same time.

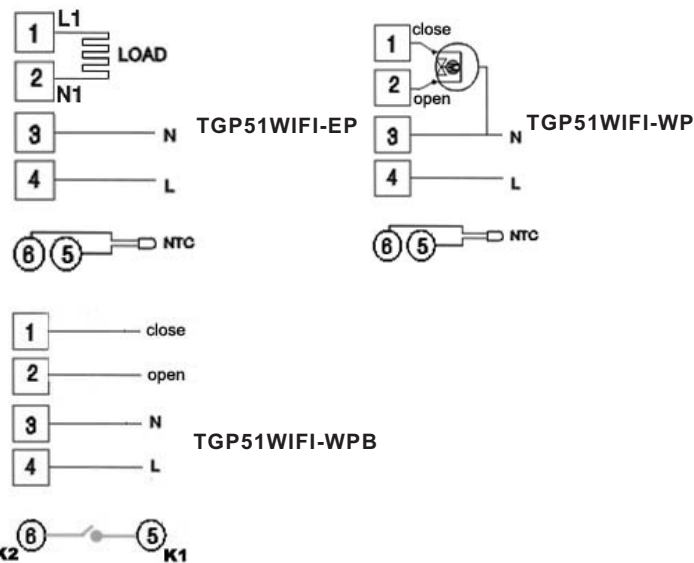
VI. Model Specific

Model	Current Loading	External Sensor	Week Program	Controlled Objects
TGP51WIFI-EP	16A	✓	✓	For electric heating appliances
TGP51WIFI-WP	3A		✓	For water heating appliances
TGP51WIFI-WPB	3A		✓	For gas boiler

VII. User Interface Explanation



VIII. Wiring Diagram



IX. 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**
Press **M** to set minute, hour and week.
Press for adjusting.
- 4. Setting the Manual Mode.**
Manual mode means non-programmable mode.
Press **M**, then will display in the screen, it is in manual mode.
Press to set the temperature.
Long press **M** to set minute, hour and week.
- 5. Setting the Child Lock**
Press **M** and at the same time in the on state, will display.
Press **M** and at the same time in the on state again, will disappear.
- 6. Setting the Programmable Mode.**
Press the **M** and at the same time in the off state. LOOP and 12345 will display.
Press to select the control way: 5+2 or 6+1 or 7 days programmable.
12345 display in the position of week means 5+2;
123456 display in the position of week means 6+1;
1234567 display in the position of week means 7 days programmable.
Press **M** to do time adjustment.
Press to change the time;
Press **M** to select the periods.
Press to change the temperature ;
Press **M** again to do time adjustment.
 will disappear in automatic control state. You can directly press to adjust temperature, This will return to manual mode.

Press **M** to switch operation between manual mode and programmable mode.

Period	Period Icon	Defaulted Time	Defaulted Temp.	
Week	1		6:00	20°C
	2		8:00	15°C
	3		11:30	15°C
	4		12:30	15°C
	5		17:30	22°C
	6		22:00	15°C
Weekend	1		8:00	22°C
	2		23:00	15°C

Remark:

- (1) The defaulted temperature of period3 and period4 is the same as period2. Please change it according to the request.
 - (2) When setting temperature is 00, this period is power off.
 - (3) How to check floor temp?
- In the power on state, long press and hold **M** then press to check floor temp., OUT TEMP will display.

7. Advanced Setting

In the state of power-off, long press and hold **M** then press into advanced setting mode. Then press **M** to set relative item.

Display Code	Function	Setting And Options	Factory Default
SEN	Sensor mode	0:Internal sensor 1:Floor sensor 2:Both internal sensor and floor sensor	0
OSV	Set temp. range for floor sensor	5-99°C	42°C
DIF	Precision for floor temp.	1-9°C	2°C
SVH	High limit temp. for internal sensor	5-99°C	35°C
SVL	Low limit temp. for internal sensor	5-99°C	5°C
ADJ	Measure temp.	Check and calibrate the actual room temp.	0.5°C accuracy calibrate
FRE	Anti-frozen	00 : Close anti-frozen 01 : Open anti-frozen	00
PON	Power memory	00 : Power memory off 01 : Power memory on	00
DFI	Precision for room temp.	0.5-3°C	1°C
FAC	Factory setting	10 or 32:Wifi mode open 08 : Just display 00 : Reset	08

Remark:

Antifreeze function: The thermostat is in the off state. When the indoor temperature is lower than 5 °C, the electric valve is opened. When the indoor temperature rises to 7 °C, the thermostat automatically turns off the output.

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.

Special note:

installing cable please choose: plumbing 1.5-2.5mm² hard wire.

IX. Phone Port Operation Instruction

1. Install APP on phone

For iOS system: Login in App Store, search “*Beok Home*”, you can download it on your iphone.

Or scan below code to download:



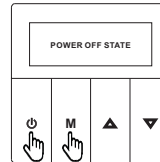
For Android System: Login in Google Play, search “*Beok Home*”, you can download it on your phone.

Or scan below code to download:

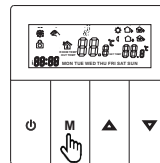


2. Connection Thermostat with Phone

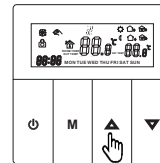
Thermostat Setting



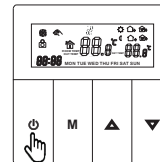
Hold on “M” key, then press Power key.



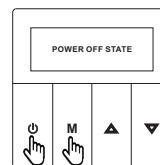
Go into Advanced Setting, press “M” key 9 times until FAC mode appears.



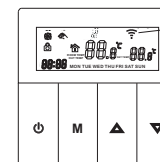
When FAC appears, press UP key to change from 8 to 10 or 32.



Then, press power off.



Hold on “M” key, then press Power key again.



Twinkling Quickly and Frequently: Connection can start

Twinkling slowly: Off Line

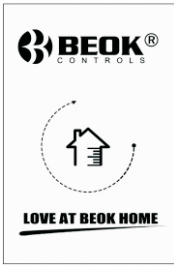
Twinkling Stops: Successful Connection

At this time, wifi symbol will be twinkling quickly and frequently. It means, you can connect thermostat with phone now.

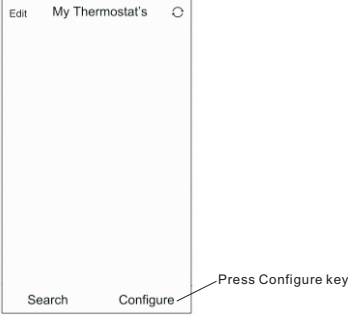
When wifi symbol stop twinkling, it means thermostat is successfully connected with phone.

Connection with Phone

Open Beok Home APP on your phone, you can see APP welcome page



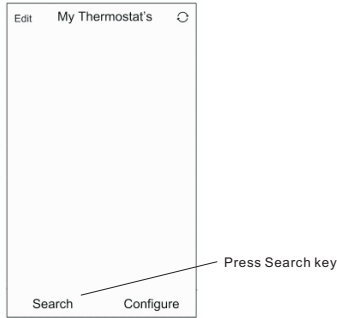
When the thermostat Wifi Symbol twinkling fast, you can start the configure on your Phone.



Enter your wifi name and password, then start connection at below. When connection success, it will appear "Connection Success".



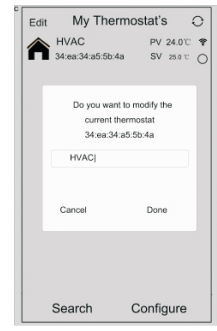
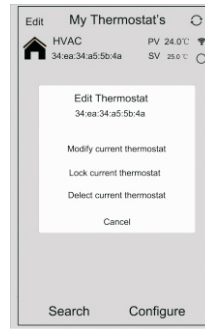
After connection success, you need press "Search " key.



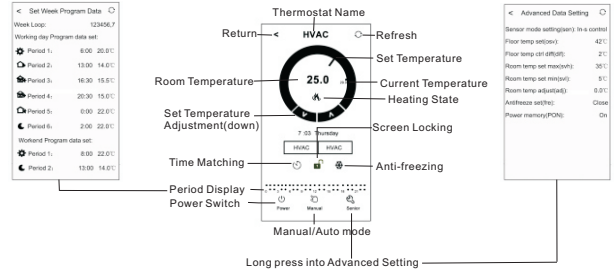
Then it will appear your wifi thermostat HVAC. HVAC is the factory setting name, when you have more than 2 thermostats, you can change it to any name you want.



- Long press HVAC for 5 seconds, it will appear Edit Thermostat page.
- Press Modify Current Thermostat.
- You can change HVAC to room 1, Bedroom Bath room, or anything you like.

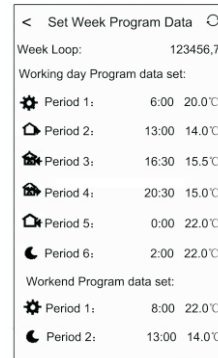


APP Interface on the Phone



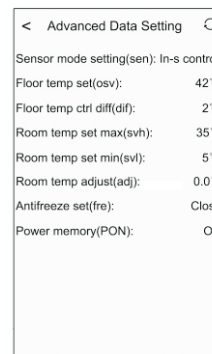
Thermostat Setting through Phone Operation

- Clock :** You can press Time Matching switch to match your phone clock with thermostat clock.
- Children lock (screen locking) :** Press to lock the thermostat.
- Anti-Freezing:** Press thermostat will show on the screen , it means Anti-freezing function open.
- Temperature setting:** You can directly drag the pointer on Temperature Setting Dial to set temperature. Or press and to set temperature step.
- Period setting:** Long press Period Display: then you will go into the Period Setting mode:



Touch work loop: you can choose the week program mode: 5+2/ 6+1 /7.
 Touch each time value: you can set the time of the period.
 Touch each temperature: you can set the temperature of the period.
 Notice: When you choose the program mode to 7, Weekend program data set will no appear.

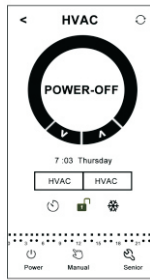
- Advanced Setting:** Long Press Senior , you will go into Advanced setting mode:



Display Code	Function	Setting And Options	Factory Default
SEN	Sensor mode	In-s control Out-s control In-s control., Out-s limit	In-s control
OSV	Floor set temp. range	5-99℃	42℃
DIF	Floor temp. ctrl diff	1-9℃	2℃
SVH	Room temp set max	5-99℃	35℃
SVL	Room temp set min	5-99℃	5℃
ADJ	Room temp. adjust	-5-5℃	0℃
FRE	Anti-frozen	close/open	Close
PON	Power memory	off/on	On

7. Switch of Manual mode and Auto mode: Press to switch manual mode or Auto mode.

8. Power off : Press to turn on or off thermostat.



X. Attention to Phone WiFi Connection:

1. After you press Configure, if connection fails:

a. Please confirm your mobile phone is set to WLAN mode, and ensure its (mobile data)3g/4g is turned off. Please connect to 2.4G wifi, not 5G wifi.

b. Please add your wifi router name, we recommend it does not include spaces or Chinese symbol.

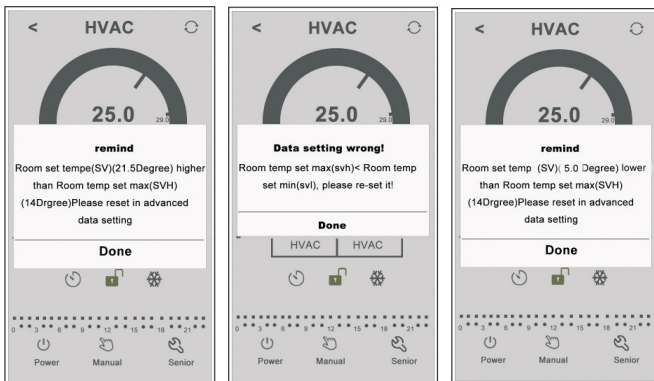
c. Please check your wifi router password. We recommend not over 32 characters, no spaces, no blank password, no special symbols except letters and numbers.

d. Please check module is successfully reset . In power-off state, press Time key firstly, then press Power key to enter Advanced Setting. Find FAC mode, to change FAC to 10 or 32, then turn thermostat off.....

Press Time key within 2 minutes, then press Power key again. This time, it will not enter Advanced Setting, but WIFI symbol on the LCD screen will be flashing quickly and frequently. This means wifi module has been reset successfully. Then wait for APP to connect well.

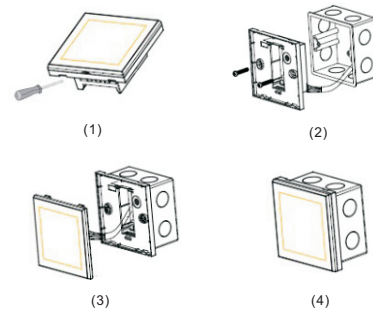
e. Please confirm wifi password is correctly filled. We recommend you check password to be visible when it is input.

2. If it displays the following reminder, please go to Advanced Setting to reset corresponding setting.



XI. Installation Instruction

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



1. Open the main control board, use a 3.5mm wide vertebral slope to reach the depth of 4mm in the card slot, and lift it up slightly to open the hook.
2. Remove the back cover and power supply, wire it correctly according to the wiring diagram, and fix the back cover to the cassette with M4 screws.
3. Connect the lower cover cable to the upper cover board
4. Hang the upper two hooks at a 30-degree angle. Press the two corners below the thermostat slightly to lock the upper casing and the installation is complete.

NOTICE: Please strictly follow the wiring diagram and do not let the water, mud and other debris enter the thermostat, otherwise the thermostat will be damaged!

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:

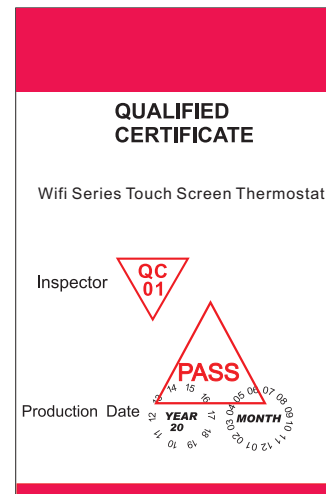
	Model	TGP51WIFI-EP	TGP51WIFI-WP	TGP51WIFI-WPB
Thermostat		✓	✓	✓
User Manual		✓	✓	✓
Screws		✓	✓	✓
External sensor		✓		

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.



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.

