

Bathroom floor and towel rail heating

Unit 1, 21 Rowell Av

EMBEDDED FLOOR HEATING

The bathroom floor contains an embedded heating element. Please avoid the use of flat-bottom furniture in this room which could cause overheating in some situations.

The radiant floor heating consumes a small level of power and takes a period of time to warm up the floor to the target temperature.

CAUTION

The system requires an external temperature sensor in the floor to prevent overheating.

FLOOR



This symbol MUST be displayed on the screen when floor heating is in operation. It means the system is set to use the correct temperature sensor which guards against the possibility of damage from overheating. If not, it means the wrong temperature source is being used. Contact property manager for assistance.

If using WIFI control, make sure 'Single external sensor' is set in the app.
DO NOT USE 'single built-in sensor' or 'internal sensor' options.

ISOLATING SWITCH

The main "BATHROOM HEATING" switch on the wall near the thermostat should normally be left on all the time even if the heating itself is not turned on. This is to retain the clock and other thermostat settings.

When this switch is turned off, there is no power to the other functions.

INDICATOR LIGHT

The red indicator lights up when heating is in progress (i.e. when the thermostat is turned on and the floor is currently being warmed up to a target temperature, or when the towel rail is turned on separately).

TOWEL STAY-ON SWITCH

Normally, just using the thermostat will operate the floor and towel radiator at the same time. However, if you need to turn on the towel rail independently, the TOWEL STAY-ON switch allows the towel radiator to remain on continuously regardless of the thermostat settings. This is useful for wet towels, but the towel radiator may get very hot if it is left on for an extended time.

THERMOSTAT SETTINGS

The thermostat controls both the floor heating and towel radiator at the same time. It has two modes:

- **MANUAL MODE:** Allows you to turn on the heating and set a target floor temperature when you require it.
- **PROGRAMMED MODE:** Allows you to run the heating to a set schedule so the bathroom floor and towel radiator are already warm when you wake up.

To choose mode: touch the SET button while the thermostat is turned on to switch between manual and programmed mode.

To set current temperature: in manual mode, touch UP/DOWN buttons to set target temperature.

The thermostat works on floor temperature rather than room temperature. The temperature shown may be higher or lower than the temperature of the air in the room for that reason.

To set up programmed schedule: While the thermostat is turned on, hold the SET button for 3-5 seconds. You will then be able to cycle through 6 weekday timeslots (days 1 2 3 4 5 will be shown) and 6 weekend timeslots (days 6 7 will be shown).

- Touch the UP/DOWN buttons to adjust the hour of the timeslot then press SET to move to next setting
- Touch the UP/DOWN buttons to adjust the minute of the timeslot then press SET to move to next setting
- Touch UP/DOWN to choose the target heating temperature to be set at the chosen time, then press SET to move to the next timeslot and repeat the process until all weekday and weekend timeslots are done.
- **If you don't need heating from a particular time, just set the temperature to the lowest temperature setting (it's fine to leave the hour/minute alone). The heating will stay off from that time.**
- Set the thermostat to programmed mode as above to run on automatic schedule.

To set time/day: While thermostat is turned on, touch OK. Then set hours, minutes, and day using UP/DOWN buttons. Press OK to move to next item. To set the day, note that 1=Monday and 7=Sunday.

WIFI Digital Heating Thermostat User Manual

Many thanks for your selection of our products and services, and also for your trust and support to us.

Search for "Smart life" from google play or App store to Download the Wifi App



- Turn on the thermostat, press and hold the key combination "SET" and "OK" Activate WIFI distribution network icon

Features

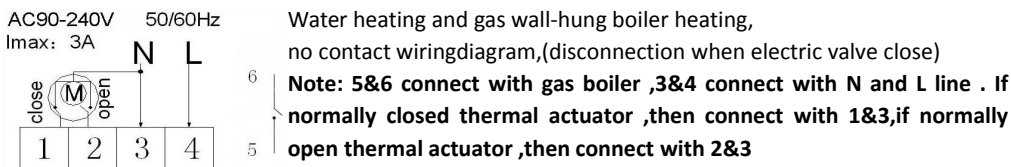
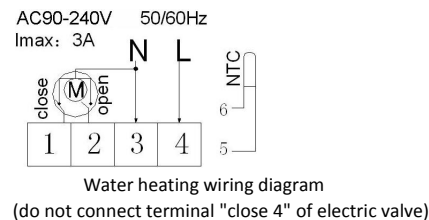
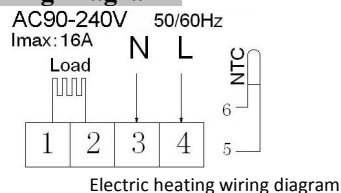
- (A) Including built-in sensor and external sensor
- (B) 0.5°C accuracy keeps temperature within the level you set.
- (C) Children lock to prevent misoperation by children
- (D) Data memory when power is off.
- (E) Holiday mode make you enjoy more comfortable temperature in holiday
- (F) The temperature of external sensor can be checked

Product Specifications

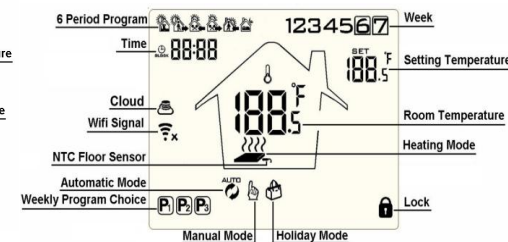
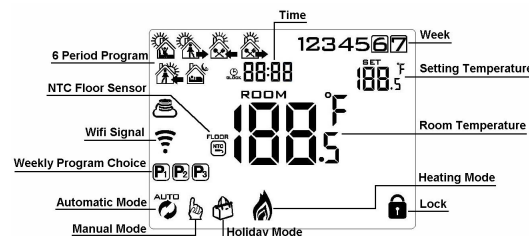
- ☆ Power: 90-240Vac 50/60Hz
- ☆ Display accuracy: 0.5°C
- ☆ Probe sensor: NTC(10k)1%
- ☆ Contact capacity: 3A/(WW);16A/(WE)
- ☆ Limit temperature range: 1~70°C
- ☆ Range of temperature adjustment: 5~35°C

- ☆ Range of temperature display: 1~70°C
- ☆ Insulating condition: Normal environment
- ☆ Running program: Set per 1 week as a cycle
- ☆ Output: Switch relay
- ☆ Installation: recessed type (in the wall)
- ☆ Size(mm): 86*86*27

Wiring Diagram



Displays



Description of icon




- Program mode;run preset program
- Temporary manual mode
- Clock
- Holiday mode, Holiday days and temperature can be set to run in countdown mode
- Heating,,icon disappears to stop heating
- External NTC sensor
- WIFI connection, flashing EZ distribution mode
- Child lock
- Wifi status: Disconnection
- Cloud icon: flashing AP distribution network mode







Operation key

NO	symbols	represent
A		Turn ON/OFF:Short press to turn on/ turn off
B		1 Short press to switch program mode and manual mode 2 Turn on thermostat, long press for 3-5 seconds to enter into program mode setting 3. Turn off thermostat, long press for 3-5 seconds to enter into advanced option A
C		1 Confirm key: use it with key 2 Only short press it to set time 3 Turn on thermostat,long press it for 3-5seconds to holiday mode setting. Appear OFF, press or change to ON,then press to confirm opening holiday mode 4 Turn off thermostat ,long press it for 3-5s to enter into advanced option B
D		1 Decrease key 2 Long press to lock /unlock keys
E		1 Increase key ; 2 Long press to inquire external sensor temperature (only available for BN item select N3 in the advance option B) 3 In the program model, press or enter to temporary manual mode

Program mode setting


5+2 (factory default),6+1 and 7 models 6 times period setting for user choose. In the advanced option A choose model of you need, under power on state, long press for 3-5 seconds enter into programming





mode setting, then short press  choose: hour,minute, time period, and press  and  to adjust data, finished setting, about 10 seconds will automatic save and exist.



					
Wake up	Leave home	Back home	Leave home	Back home	Sleep
6: 00 20℃	8: 00 15℃	11: 30 15℃	13:30 15℃	17:00 15℃	22:00 15℃


The optimum comfort temperature is 18℃-22℃.

Advanced option A


Power off state, long press  for 3-5 seconds to access advanced option A.





From A1 to AE, short press  to choose the option, and adjust data by ,, short press  to switch next option.Remain about 5 seconds after finish setting will quit setting.

NO	Setting Options	Data Setting Function	Factory Default
A1	Measure Temperature Calibration	-9-+9℃(Displayed as the corrected room temperature value)	-1
A2	Start/stop working temperature difference setting	0.5-2.5℃	1℃
A3	Child lock setting	0:half lock 1:full lock	0
A4	Power on/off state memory after electricity cut	0:Thermostat on/off with memory when electrify 1:Thermostat off when electrify 2:Thermostat on when electrify	0
A5	Backlight show time	5~30s	10
A6	Program mode type	0: 5+2 1: 6+1 2: 7	0
A7	Setting temperature minimum limit	1-10℃	5℃
A8	Setting temperature maximum limit	20-70℃	35℃
A9	Low temperature protection	1-10℃ When setting temp = 10℃, if press  will display 【--】 , cancel low temperature protection	5℃
AA	High temperature protection for external sensor	20℃-70℃ When setting temp = 20℃, , if press  will display 【 -- 】 , cancel high temperature protection	45℃
AB	High temperature protection temperature difference setting	1-9℃	2℃
AC	Window function triggers temperature	10-20℃,setting temperature is 10℃,decrease it ,will display 【--】 ,then canceled this function	--

AD	Window function running time	10-20min	10
AE	Restore factory defaults	Display Ao , long press  key to whole show	

Advanced option B

Power off state, long press  for 3-5 seconds to access advanced option B.

short press  to choose the option, and adjust data by ,, short press  to switch next option.Remain about 5 seconds after finish setting will quit setting.

NO	Setting Options	Data Setting Function	Factory Default
BN	Sensor type	N1:Internal sensor (high temperature protection close) N2:External sensor (high temperature protection close) N3:Internal sensor control temperature ,external sensor limit temperature (external sensor detect the temperature is higher than highest temperature of external sensor, thermostat will Close relay,turn off load)	N1
BC	Descaling function	0:Disable descaling function 1:Enable descaling function	0
Bo	Product information	Can't be changed	

Return difference : limit valve of external sensor is 45℃ for factory default (A6),value of external sensor control return difference (AB) is 2. when temperature rise to 45℃,then relay stop working and will remind high temperature production alarm. If temperature decline to 43℃relay continue to work and heating alarm will be relieved. (it can be operated ,only when room temperature is lower than setting temperature)

Sensor fault display:please choose correct working way of built-in and external sensor, if choose wrongly or sensor fault (breakdown), “E1” or “E2” will be displayed on the screen. Thermostat will stop heating until the fault is eliminated

Warranty:

We offer the warranty of 18 months, from the sales day. The products of our company can have lifetime warranty ,if it is not the quality problems, or beyond the warranty period, we will charge for the after-sale service.

Wifi Thermostat Mobile App Programming Guide

Preparation required for Wifi Connection:

You will need a 4G mobile phone and wireless router. Connect the wireless router to the mobile phone and record the WIFI password [you will need it when the thermostat is paired with the Wifi].

Step 1 Download your app



Android users can search “Smart RM” or “Smart life” on Google Play, iPhone users can search “Smart RM” “Smart life” in the App Store.

Step 2 Register your account

- After installing the app, click “register” (Fig 2-1)
- Please read the Privacy Policy and press Agree to proceed to the next step. (Fig 2-2)
- Registration account name uses your Email Or mobile phone number. Select Region, then click “Continue”(Fig 2-3)
- You will receive a 6-digit verification code via email or SMS to enter your phone (Fig 2-4)
- Please set the password, Password must contain 6-20 letters and numbers. click “Done”(Fig 2-5)

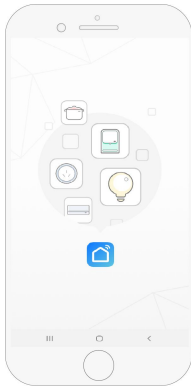


Fig 2-1

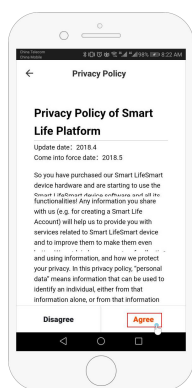


Fig 2-2

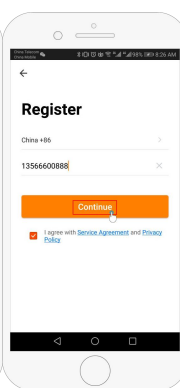


Fig 2-3

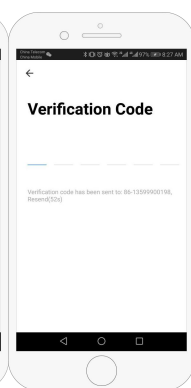


Fig 2-4

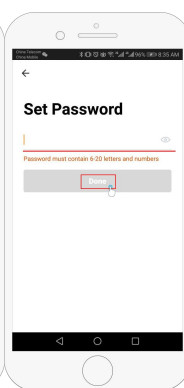


Fig 2-5

Step 3 Create family information(Fig 3-1)

1. Fill in the family name (Fig 3-2).
2. Select or add a room (Fig 3-2).
3. Set location permission (Fig 3-3) then set thermostat location (Fig 3-4)

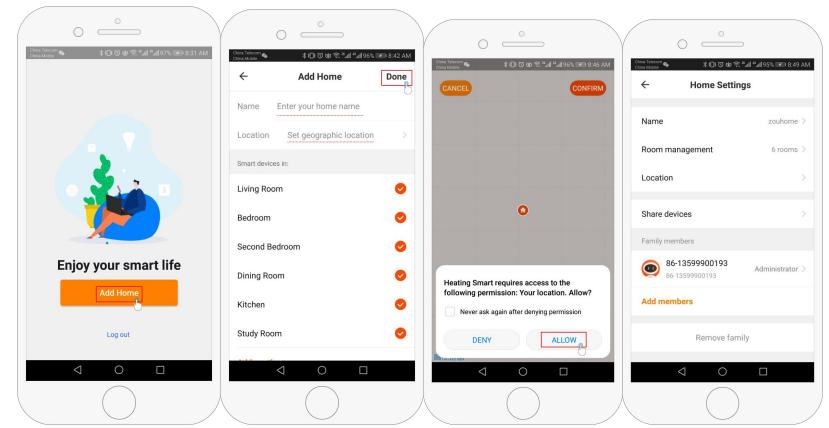








Fig 3-1

Fig 3-2

Fig3-3

Fig 3-4

Step 4a Connect your Wi-Fi signal (EZ distribution mode)

1. Go to your Wifi setting on your phone and make sure you are connected via 2.4g and not 5g. most modern routers have 2.4g & 5g connection. 5g connections do not work with the thermostat.
2. On the phone press "Add Device" or "+" in the upper right corner of the app to add the device (Fig 4-1) and under the small appliance section select the device type "Thermostat" (Fig 4-2)
3. With the thermostat powered on, press and hold  and  at the same until both icons( & ) flash to indicate the EZ distribution mode. This can take between 5-20 seconds.
4. On your thermostat confirm   icons are rapidly blinking and then go back and confirm this on your app. Enter the password of your wireless router this is case sensitive (fig 4-4) and confirm. The app will connect automatically (Fig 4-5) This may typically take up to 5~90 seconds to complete.

If you get an error message make sure you have entered your correct Wi-Fi password (case sensitive typically found on the bottom of your router) and that you are not on your Wi-Fi's 5G connection.

Your room name can be edited when the device is connected,

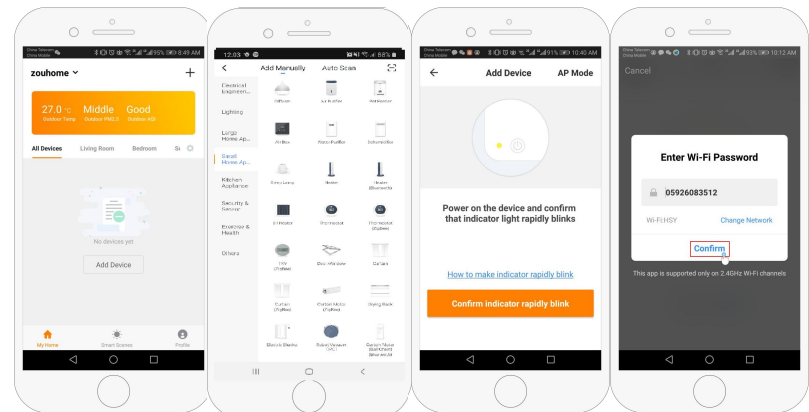


Fig 4-1

Fig 4-2

Fig 4-3

Fig 4-4

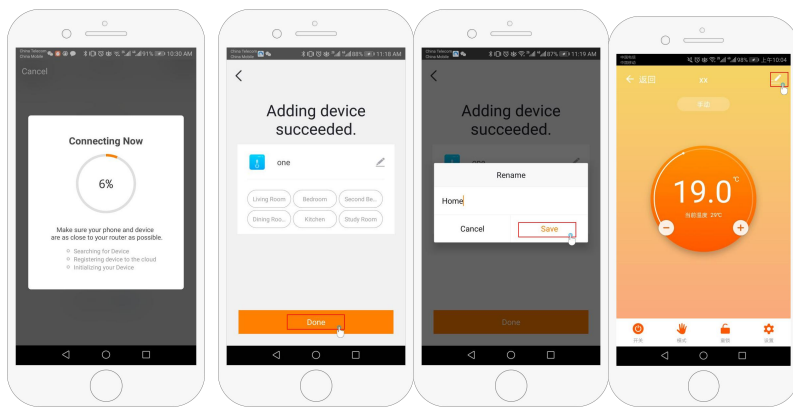









Fig 4-5

Fig 4-6

Fig 4-7

Fig 4-8

Step 4b (Alternative method) (AP mode pairing) Only do this if step 4a failed to pair the device

1. On the phone press "Add Device" or "+" in the upper right corner of the app to add the device (Fig 4-1) and under the small appliance section select the device type "Thermostat" and click AP Mode in the top right corner. (Fig 5-1)
2. On the thermostat press power on and then press and hold  and  until  flashes. This can take between 5-20 seconds. If  also flashes release buttons and press and hold  and  again until just  flashes.
3. On the app click "confirm light is blinking", then enter the password of your wireless router (fig 4-4)
4. Press "Connect now" and select the Wifi signal (Smartlife-XXXX) of your thermostat (Fig 5-3 and 5-4) it will say internet may not be available and ask you to change network but ignore this.
5. Go back to your app and click "Connect" then the app will connect automatically (Fig 4-5)

This may typically take up to 5~90 seconds to complete and will then show confirmation (Fig 4-6) and allow you to change the thermostat name (Fig 4-7)

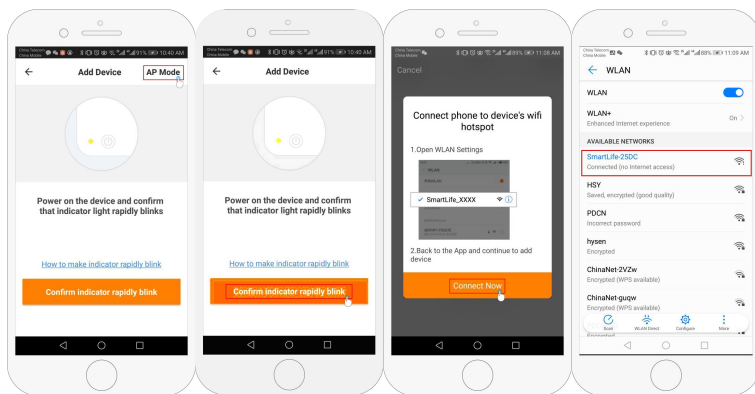


Fig 5-1

Fig 5-2

Fig 5-3

Fig 5-4

Step 5 Changing sensor type and temperature limit

Press the setting key  (Fig 4-8) in the bottom right hand corner to bring up the menu.


Click the Sensor type option and enter password (normally 123456). Then you will be given 3 options:

- (1) "Single built-in sensor" will only use the internal air sensor (DO NOT USE THIS SETTING*)
- (2) "Single external sensor" will only use the floor probe (ideal for bathrooms where thermostat installed outside room).
- (3) "Internal and external sensors" will use both sensors to read the temperature (Most common option).

Once you have chosen the sensor type, check that "Set temp. max" option is set to a suitable temperature for your flooring (typically 45°C)

*A floor probe must always be used with electric underfloor heating to protect the flooring.

Step 6 Programming daily schedule

Press the setting key  (fig 4-8) in the bottom right hand corner to bring up the menu, at the bottom of the menu there will be 2 stand alone options called "week program type" and "weekly program setting".


"Week program" type allows you to choose the number of days the schedule applies to between 5+2 (weekday+weekend) 6+1 (Mon-Sat+Sun) or 7 days (all week).



"Weekly program" setting allows you to choose the time and temperature of your daily schedule at varying points. You will have 6 options of times and temperatures to set. See example below.


Part 1	Part 2	Part 3	Part 4	Part 5	Part 6
Wake up	Leave Home	Back Home	Leave Home	Back Home	Sleep
06:00	08:00	11:30	13:30	17:00	22:00
20°C	15°C	20°C	15°C	20°C	15°C

If you do not need the temperature to rise and fall in the middle of the day then you can set the temperature to be the same on parts 2,3 and 4 so that it does not increase again until the time in part 5.

Additional Features

Holiday Mode: You can program the thermostat to be on for a set temperature for up to 30 days so that there is background heat in the house while you are away. This can be found under the mode  (fig 4-8) section. You have the option to set the number of days between 1-30 and a temperature up to 27°C.

Lock Mode: This option allows you to remotely lock the thermostat so no changes can be made. This can be done by clicking the  (Fig 4-8) symbol. To unlock click the  (Fig 4-8) symbol again.

Grouping devices: You can link multiple thermostats together as a group and control them all simultaneously. This can be done by clicking on the  (Fig 4-8) in the top right corner and then clicking the Create Group option. If you have multiple thermostats linked it will allow you to tick each one that you want to be in the group and once you confirm the selection you will be able to name the group.

Family Management: You can add other people to your family and allow them to control the devices you have linked. To do this you need to go back to the home page and click on the family name in the top left corner and then click on Family Management. Once you have selected the family you wish to manage there will be an option to Add Member, you will need to enter the mobile number or email address they have registered the app with to send them an invitation. You can set whether or not they are an administrator which allows them to make changes to the device ie removing it.