Smart RM

WIFI Thermostat Technical Manual

Product Specifications

☆ Power: 90-240Vac 50/60HZ

☆ Display accuracy:: 0.5°C

☆ Contact capacity: 16A(WE) /3A(WW）

☆ Range of temperature display:: 0~40°C

☆ Probe sensor:: NTC(10k)1%

Before wiring and installing

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure it is suitable for your application.
3. Installer must be a trained and qualified Electrician
4. After installation is complete check operation as per these instructions
5. ⚠️CAUTION

Disconnect power supply before installation to avoid electrical shock or equipment damage.

Start up

Where possible you should set up the Wifi by using the attached manual. If unable to do so please see guide below.

When you turn on the thermostat for the first time you will need to set the time and also the number that corresponds to the day of the week (1-7 starting from Monday). This can be done by following the steps below:

1. Press the ⊙/❋ button and the time in the top left corner will start flashing.

2. Press ▽ or △ to get to the desired minute and then press ⊙/❋

3. Press ▽ or △ to get to the desired hour and then press ⊙/❋

4. Press ▽ or △ to change the day number. 1=Monday 2= Tuesday 3=Wednesday 4=Thursday 5=Friday 6=Saturday 7=Sunday – Once you have selected the day press ⊙/❋ to confirm

You will now be ready to set the temperature. This can be done by pressing ▽ or △. The set temperature is displayed in the top right corner.

It is recommended to start out at a low temperature and increase the temperature 1 or 2 degrees a day until you reach a comfortable heat. This only needs to be done once.

Please see the operation key list which shows all the additional functions per button. These can all be controlled via the mobile app if you have paired your device (see attached pairing instructions)

Always check that the temperature limit for the floor probe is set to a suitable temperature for your flooring (typically 45℃). This can be done in the advanced setting menu A9 (see next page)
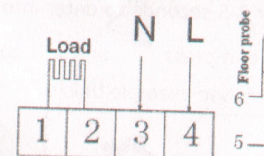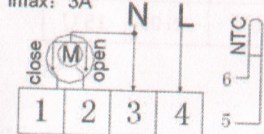
Displays
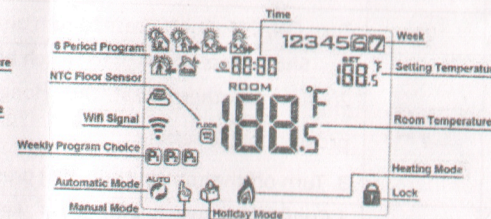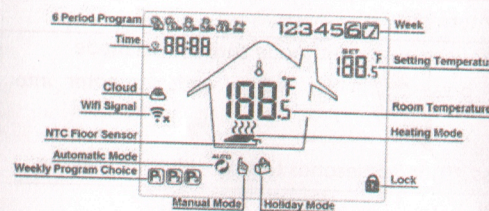
Description of icon

AUTO Auto mode; run preset program

AUTO👆 Temporary manual mode

👆 Manual mode

🕐CLOCK Clock

🛍️ Holiday mode

♨️/🔥 Heating, icon disappears to stop heating

📶✗ Wifi status: Disconnection

📄/▰▰ : External NTC sensor

☷ WIFI connection, flashing = EZ distribution mode

🔒 Child lock

☁️ Cloud icon: flashing = AP distribution network mode
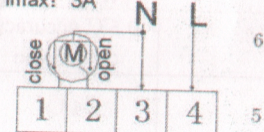
Wiring Diagram

Electric heating wiring diagram (16A）

Connect the heating mat to 1 & 2, connect the power supply to 3 & 4 and connect the floor probe to 5 & 6. If you connect it wrongly, there will be a short circuit and the thermostat may become damaged and the warranty will be invalid.

Water heating wiring diagram (3A)

Connect the valve to 1&3(2 wire close valve) or 2&3 (2 wire open valve) or 1&2&3(3 wire valve), connect the power supply to 3&4.

Water heating and gas wall-hung boiler heating

Connect the valve to 1&3(2 wire close valve) or 2&3 (2 wire open valve) or 1&2&3(3 wire valve), connect the power supply to 3&4, and connect

the gas boiler to 5&6.**If you connect it wrongly, there will be Short circuit,our gas boiler board will be damaged**

Operation key

NO	symbols	represent
A	⏻	Turn ON/OFF: Short press to turn on/ turn off
B	SET/▦	1. Short press SET/▦ to switch between automatic mode and manual mode 2. Turn on thermostat then long press SET/▦ for 3-5 seconds to enter into programmable setting 3. Turn off thermostat then long press SET for 3-5 seconds to enter advanced setting
C	OK/⚙	1 Confirm key: use it with SET/▦ key 2 Short press it to set time 3 Turn on thermostat then long press it for 3-5seconds to enter holiday mode setting. Appear **OFF**, press ▽ or △ change to ON, then press OK/⚙ to confirm activation of holiday mode
D	▽	1 Decrease key 2 Long press to lock /unlock
E	△	1 Increase key : 2 Long press to display external sensor temperature 3 In the Auto mode, press ▽ or △ enter to temporary manual mode

Programmable

5+2 (factory default), 6+1 and 7 day models contain 6 time periods to automate. In the advanced options choose number of days required, when power is on then long press SET/▦ for 3-5 seconds to enter into programming mode. Short press SET/▦ to choose: hour, minute, time period, and press ▽ and △ to adjust data. Please note after about 10 seconds it will automatically save and exit. See example below.

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

The optimum comfort temperature is 18℃-22℃.

Advanced options

When the thermostat is off long press SET/▦ for 3-5 seconds to access advanced setting. From A1 to AD, short press SET/▦ to choose the option, and adjust data by △,▽, short press SET/▦ to switch next option.

NO	Setting Options	Data Setting Function	Factory Default
A1	Measure Temperature Calibration	-9-+9℃	0.5℃ Accuracy Calibration
A2	Temperature control return difference setting	0.5-2.5℃	1℃
A3	External sensors limit	1-9℃	2℃
	temperature control return difference		
A4	Options of sensor control	N1:Built-in sensor (high temperature protection close) N2:External sensor (high temperature protection close) N3:Built-in sensor control temperature ,external sensor limit temperature (external sensor detect the temperature is higher than highest temperature of external sensor, thermostat will disconnect relay,turn off load)	NI
A5	Children lock setting	0:half lock 1:full lock	0
A6	Limit value of high temperature for external sensor	1. 35℃-70℃ 2. Under 35℃, screen display 【--】, high temperature protection was cancelled	45℃
A7	Limit value of low temperature for external sensor(anti-freeze protection)	1. 1-10℃ 2. Exceed 10℃, screen display 【--】, Low temperature protection was cancelled.	5℃
A8	Setting temperature lowest limit	1-10℃	5℃
A9	Setting temperature highest Limit	20-70℃	35℃
AA	Descaling function	0:Close descaling function 1:Open descaling function（valve is continuously closed over 100 hours，it will be opened for 3 minutes automatically）	0:Close descaling function
AB	Power with memory function	0:Power with memory function 1:Shutdown power after power off 2:Shutdown power after power on	0:Power with memory function
AC	Weekly programming selection	0: 5+2 1: 6+1 2: 7	0: 5+2
AD	Restore factory defaults	Display A o, press OK/⚙ key whole show	

Sensor fault display: Please choose correct setting of built-in and external sensor (option A4), if chosen wrongly or if there is a sensor fault (breakdown) then error "E1" or "E2" will be displayed on the screen. Thermostat will stop heating until the fault is eliminated.

Installation Drawing