

1,Product Introduction:

The AC8048RF digital thermostat adopts the most advanced chip in the world. with the high precision internal NTC sensor of the thermostat to detect and compared the temperature. The heating equipment is automatically turned on/off to maintain the indoor desired room temperature. The optional Occupied/Unoccupied feature saves energy. AC8048 features with wireless control, large LCD screen display, and displays the status of work mode(cooling/heating/vent)indoor temperature and set temperature etc...

Keypad includes: Power on/off (⏻), set , programmable(PRG) and two adjustment buttons(+ & -).

2,Key Features

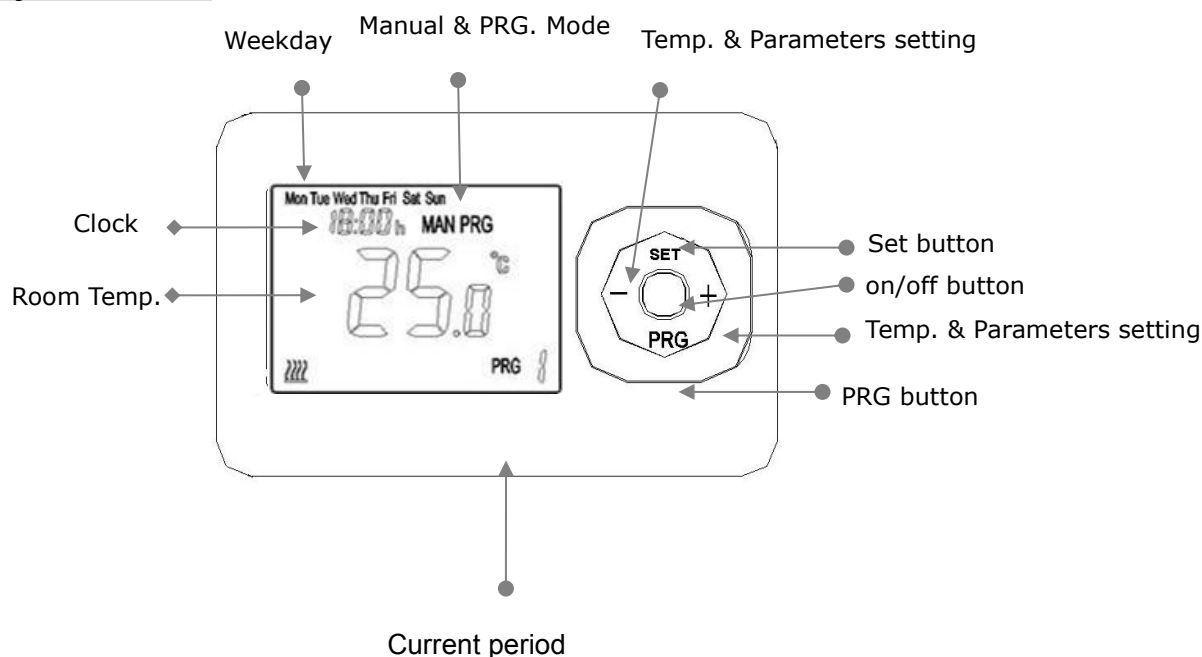
- Heating thermostat
- 2xAAA battery power supply
- Attractive modern styling
- Surface mounting.
- RF frequency: 433Mhz or 868Mhz
- CE, ROHS approved



3, Technical Data

Power Supply - 2*AAA battery	Backlight - White
Receiver relay contact - Max 10A	Sensor - NTC 10K
Set Point Range - 5~30℃	Accuracy - $\pm 0.5^{\circ}\text{C}$ (step control by $+0.5^{\circ}\text{C}$)
Ambient - 0~50℃	Protection Class - IP30
Relative Humidity - 85%	Housing - ABS to UL94-5 fire retardant plastic

4, Displays & Buttons



Buttons Function:

on/off button: Press this button for power on/off.

Set button: Clock & Temperature Setting

+ button: for Temp. & Parameters setting increase

- button: for Temp. & Parameters setting decrease

PRG button: Mode select & programmable setting

Operating Instructions:

5, Clock & Temperature Setting

Press and hold SET button for 5s, set the clock (Min-Hour-Weekday) by pressing + and - button, each press of SET button will go to next item setting.

Menu	Description
01	Clock setting- Minute
02	Clock setting- Hour
03	Weekday setting

6, Advanced setting

1) Temperature calibration

Turn off the sender, long press "SET" button until the screen is lit , press "+" or "-" button to set calibration temperature. Range: -8 °C~8 °C

Press "PRG" button to enter to next step.

2) Switch differential setting

Press "+" or "-" button to change switch differential setting. Range: 0.5~5 °C

Press "PRG" button to enter to next step.

3) Floor limiting temperature (For electric heating version only)

Press "+" or "-" button to change the floor limiting temperature. Range: 25~60 °C

Press "PRG" button to enter to next step.

4) Programming mode selection

Press "+" or "-" button to '00' for 5+1+1 programming or '01' 7 individual days programming.

Press "PRG" button to enter to next step.

5) Anti-frozen function

Press "+" or "-" button to turn on/off this function or change setting temperature. Range: 3~10 °C

Press "PRG" button to enter to next step.

6) Open window detect function (OWD function)

Press "+" or "-" button to '00' for close this function and '01' for open this function.

Press "PRG" button to enter to next step.

7) OWD Detect Time

Press "+" or "-" button to change OWD Detect Time. Range: 2-30 min

Press "PRG" button to enter to next step.

8) OWD Drop temp. select (within detect time)

Press "+" or "-" button to change OWD Drop temp. select . Range: 2-4 °C

Press "PRG" button to enter to next step.

9) OWD Delay time select (Return to previous working status)

Press "+" or "-" button to change OWD Delay time select. Range: 10-60 min

Press "PRG" button to enter to next step.

10) Pair for sender to receiver

Please refer to the part 14 .

Press "PRG" button to enter to next step.

11) Reset to factory setting

Press "+" or "-" button to '01', and then press "SET" button for 5s, wait until thermostat restart

7, Floor limiting temperature (For electric heating version only)

When the floor temperature reaches the set value, the thermostat forcibly stops heating and the receiver's "Heating on" red light flashes to remind the customer that the floor temperature limit function is activated, When the floor temperature is lower than the set value, and the "Power" green light stops flashing. The thermostat returns to normal state.

8, Anti-frozen function

Press "-" button to "--" for turn off Anti-frozen function, Press "+" button to turn on the Anti-frozen function and change the set temperature, When the room temperature reaches this temperature, the thermostat forcibly turns on the heating. When the room temperature is higher than this temperature by 2 °C, the thermostat automatically turns off the heating.

9, Open window detect function (OWD function)

When the Open Window mode is enabled in the parameter setting, the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 5 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.

The device will return to the previous mode of operation after 30mins, then OP disappear. Press any button will exit OWD function during the heating off period.

10, Floor temperature sensor fault reminder (For electric heating version only)

When the thermostat detects that the floor temperature limit sensor is faulty, the heating will be forcibly stopped and the "power" traffic light flashes alternately to remind the user to check the sensor. When the fault is eliminated, the thermostat returns to the normal state.

11, Child lock

Press ON/OFF button for 3 seconds to engage/disengage key-lock function key-lock shows 

12, Mode select

Press "PRG" button to select Manual mode (MAN) and Programmable mode (PRG).

Manual mode: With under the manual mode, to control the unit to ON/OFF manually.

Programmable mode: The unit can be operated by the setted time & temperature automatically, the programmable mode with 4 period times & 4 related temperatures, its function show as below:

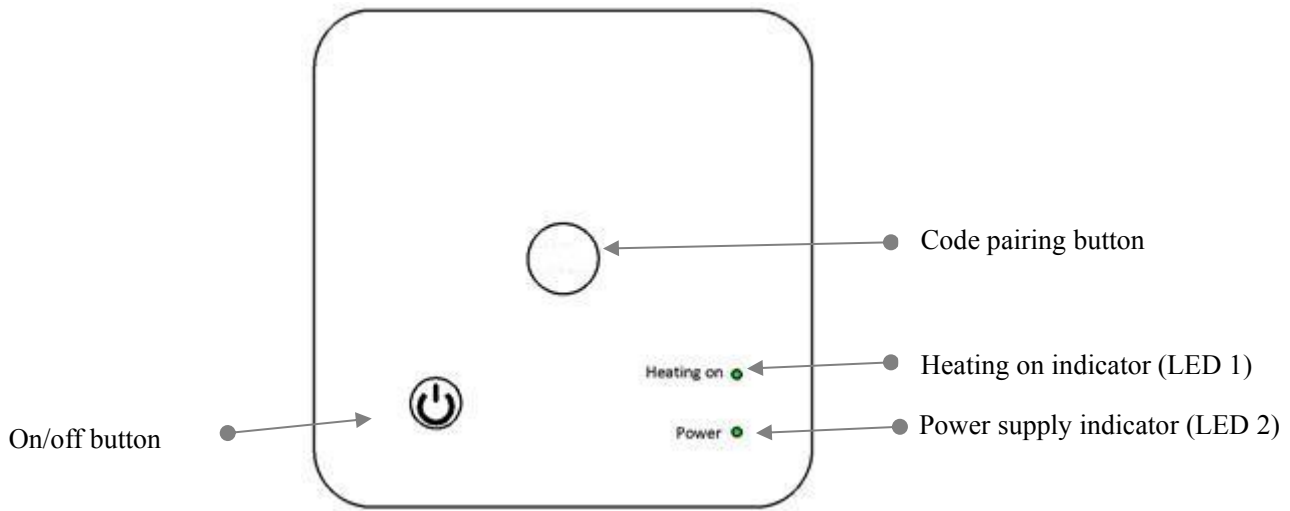
13, 5+1+1 OR 7 individual days programmable setting

1) Press and hold PRG button for a while to enter program setting.

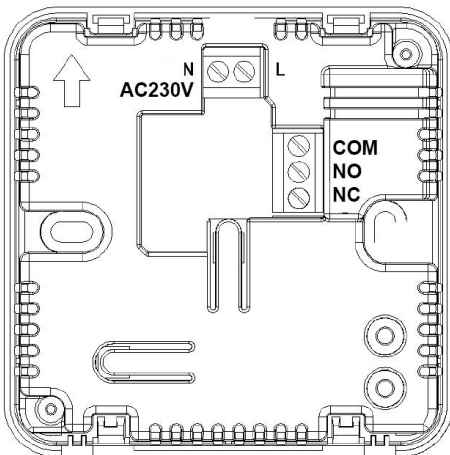
2) Set the schedule (Weekday-Period-Start time-Temp.) by pressing + and - button, each press of PRG button will go to next item setting.

Example:

	Monday to Friday				Saturday				Sunday			
Period	1	2	3	4	1	2	3	4	1	2	3	4
Time	6:30	8:00	18:00	22:30	8:00	10:00	18:00	23:00	9:00	12:00	19:00	0:00
Temp.	21°C	18°C	21°C	16°C	21°C	21°C	21°C	16°C	23°C	21°C	16°C	21°C

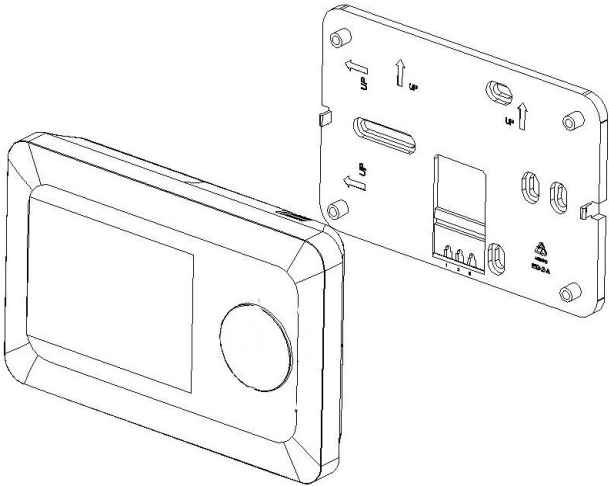
14,Code Pairing

- 1) Long press the code pairing button on the receiver until LED 1 is flickering quickly.
- 2) Turn off sender, and long press “SET” button until the screen is lit, then press “PRG” button again **nine times** ,Then press “SET” button and waiting.
- 3) Wait for a while, LED 1 stop flickering. Code pairing done.

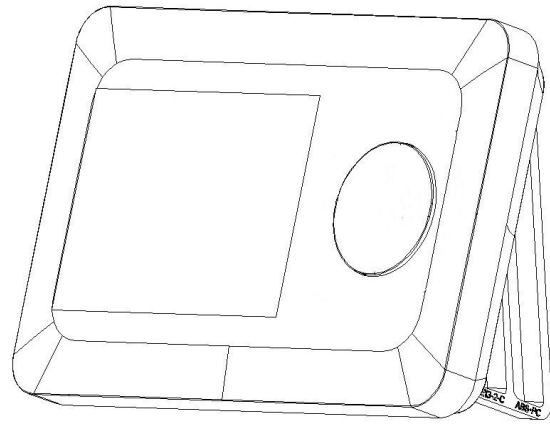
15,Wiring diagram

16, Installation

Sender

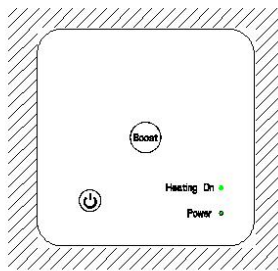
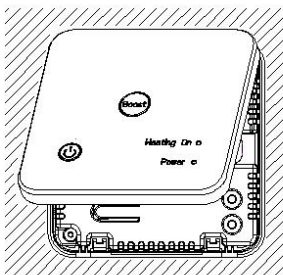
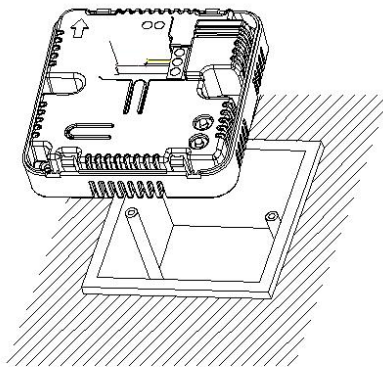
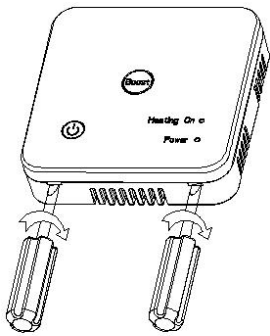


Wall installation



put on desk

Receiver



17, Dimension

