WIFI Thermostat Technical Manual

Product Specifications
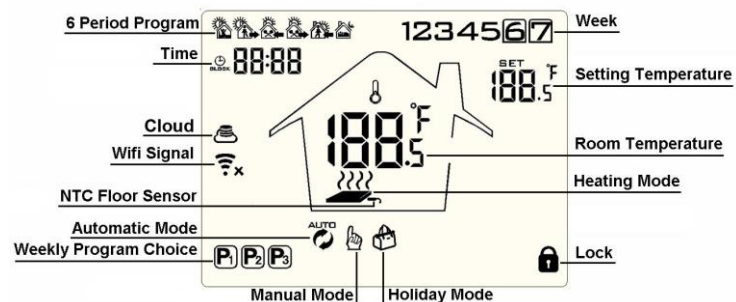
☆ Power: 90-240Vac 50/60HZ

☆ Range of temperature display:：0~40℃

☆ Display accuracy:：0.5℃

☆ Probe sensor:：NTC(10k)1%

☆ Contact capacity: 16A/250V(WE)

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

⚠️ **CAUTION**

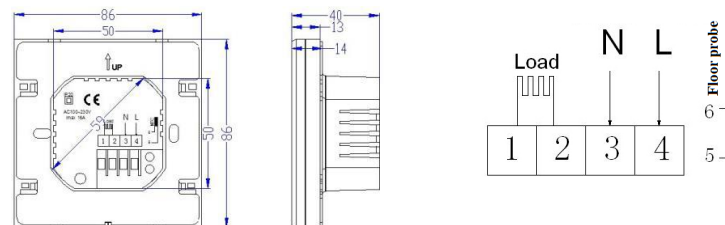**Disconnect power supply before installation to avoid electrical shock or equipment damage.**

Displays

Description of icon

⏱ Auto mode; run preset program

👆 Manual mode

⏱👆 Temporary manual mode

🕐 Clock

🏠 Holiday mode

📶✕ Wifi status: Disconnection

〰️ Heating, icon disappears to stop heating

🔲 External NTC sensor

📶 WIFI connection, flashing = EZ distribution mode

🔒 Child lock (hold ▽ to lock/unlock)

☁ Cloud icon: flashing = AP distribution network mode

Wiring Diagram

Mounting the thermostat

In order to mount the thermostat to the back box you will need to slide the black mounting plate away from the front panel gently and carefully detach the ribbon connecting the LCD screen to the wiring block, this will then expose the 2 screw holes on either side which you can screw through and into the back box. Once fitted you will need to reattach the LCD ribbon and clip the front plate back on.

Wiring

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.

You must always install the floor probe sensor. If you are installing the thermostat in a bathroom or wet room, then the thermostat needs to be placed outside the room and the floor probe needs to be inside. Always check that the temperature limit for the floor probe is set to a suitable temperature for your flooring (typically 27℃). This can be done in the advanced setting menu A6 (see next page). Always test the floor probe with a megger tester or fluke tester set to 2000 ohms, the reading should be between 8-15 ohms. The live and neutral are interchangeable.

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

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. If this occurs ask the electrician to redo the test on the probe to ensure the cable was not damaged during the installation.

Step 1: Setting up time and date

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 〔OK〕 button and the time in the top left corner will start flashing.
2. Press 〔▽〕 or 〔△〕 to get to the desired minute and then press 〔OK〕
3. Press 〔▽〕 or 〔△〕 to get to the desired hour and then press 〔OK〕
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 〔OK〕 to confirm

Step 2: Programming heating schedule

The following steps can be used to set up the thermostat manually however using the mobile app is easier. To pair the thermostat follow the "Wifi Thermostat Mobile App Programming Guide" provided.

Days are divided into 6 periods. Wake up, sleep and 4 periods in between. When you are at home, set the period at a "comfort" temperature (typically 18C-21C). When you are out of the property or asleep, set the temperature of the period much lower (typically 15C-16C). This will help to reduce your energy costs.

To program the timings do the following:

1. When power is on, long press 〔SET〕 for 5-10 seconds to enter programming mode.
2. The time in the top left will now flash. Press ∨ and ∧ to adjust hour.
3. Press the 〔SET〕 and the minutes will now flash. Press ∨ and ∧ to adjust the minutes.
4. Press the 〔SET〕 and the temperature will now flash. Press ∨ and ∧ to adjust the temperature.
5. Once you have set the time and temperature press 〔SET〕 to go to the next set of times and repeat steps 2-4 for each of the 6 time periods
6. When you have set all the time periods press 〔SET〕 to return to the main screen

Important: Please note after about 10 seconds it will automatically save and exit.

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℃

To protect the flooring it is recommended to start out at a low temperature and increase the temperature 1℃ a day until you reach a comfortable heat. This only needs to be done once.

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 temperature control return difference	1-9℃	2℃
A4	Options of sensor control	N1: Air sensor only (do not use) N2: Floor probe only N3: Air sensor and Floor probe	N3
A5	Children lock setting	0: half lock 1: full lock	0
A6	Limit value of high temperature for external sensor	1. 20℃-70℃ 2. Under 20℃, screen display 【--】, high temperature protection was cancelled	27℃
A7	Limit value of low temperature for external sensor	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	N/A for electric underfloor heating	0
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	Restore to factory settings	

🔒 To lock and unlock the thermostat hold the 〔▽〕 button

Warranty: We offer the warranty of 12 months, from the day of purchase. Beyond the warranty period we will charge for the after-sale service.