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## **Floor Heating Thermostat**

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Dimension: 86 \* 86 \* 14 MM

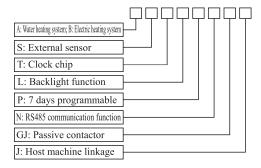
#### **Instructions**

#### [Product Overview]

These series of digital heating thermostat, applying the most advanced and international standardized microcomputer control chip, measures the temperatures through the in-built and external high-precision sensor. It can make a real-time comparison with the parameters set by the user, automatically start and stop the heating equipment to maintain the room in a certain temperature point. It can set 6 time periods and corresponding temperature every day, and can select manual control or temporary manual control. The particular double sensor control function reinforces temperature detection on the heating equipment while detecting the room temperature. When the temperature of heating equipment exceeds the maximum setting temperature, the thermostat will automatically stop heating to protect the electric heating equipment; While the temperature is lower than the minimum protected temperature, it will restart the electric heating equipment and keep it working under reasonable temperature range, which will prolong the service life of equipment and enable the system to be safer, more reliable and energy-saving.

### [Alternative Working Modes Table]

Optional functions



#### [Technical Data]

Power self-consumption: <1.5W

Timing error: <1%

Power voltage: 220VAC 50/60HZ Load current: GA: 3A GB: 16A/25A

Temperature control range:  $5^{\circ}\text{C}-35^{\circ}\text{C}$  Temperature accuracy:  $\pm 1^{\circ}\text{C}$ 

Outline size: 86mm x 86mm x 13 (height x width x thickness)

#### [Display and Function Description]

(1): Manual working mode. Under the manual mode, the heating equipment can be controlled through resetting its current temperature manually..

Programmable working mode. The thermostat runs automatically according to the setting time period and temperature point.

Programmable working mode: 7-day programmable is divided into two periods, respectively "12345"/"67" 5+2 programmable working mode. Each working mode is subdivided into six periods and six corresponding temperature settings.

: Getting up in the morning, the first period

Going out in the morning, the second period

: Back home at noon, the third period

: Going out at noon, the fourth period

: Back home in the evening, the fifth period

: Sleeping at night, the sixth period

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#### 2

# (")? : Temporary manual working mode: under the current programmable working mode period, switching to the temporary manual state for a while, and it will automatically switch back to the programmable period control state when the next period approaches (temperature set under the temporary manual working mode will not be stored).

Press "M" to switch over to the manual mode.

**file**: Button locking state. Press ▲ and ▼ at the same time for at least 5s to lock the thermostat buttons, and then press them meanwhile for at least 5s for unlocking.

(Y): Heating state. When the icon glitters, it means that the heating source exceeds the Max limited temperature and the load is cut off. If powered off, the icon may also glitter when the antifreezing protection starts the load.

External temperature: floor temperature. It can only display on the screen after finishing selecting in-built and external temperature sensors. After selecting "AI" for the sensor type in the senior options, keeping pressing **A**, the screen will display double sensor temperature. If you release it, the screen will go back to the previous state 3 seconds later. (Optional: this option is only available to double sensor configuration)

#### [Button Description and Operation]

• Power on/off button for selecting to turn on or off thermostat. If it's on, the LCD will display its working data and the thermostat will operate under one of the below three working modes: manual mode, programmable working mode and temporary manual working mode. If it's off, the LCD will display none. And the working state and senior parameters before powered off will be stored. "M:" model button. It refers to the switchover between manual model and 7-day programmable model. It is ineffective under the communication mode.

© Clock programming button. Press it to adjust the clock in sequence: minute adjustment→hour adjustment+week adjustment+back to original state. Switch over them respectively. Keep pressing it for 3s to enter into the 7-day programmable mode and adjust it in sequence: adjustment of timing point for the first period from Monday to Friday→adjustment of temperature for the first period from Monday to Friday→ timing point and temperature for the second period→...→adjustment of timing point and temperature for the sixth period from Saturday to Sunday (refer to the following attached table).

After each parameter is finished setup, press  $\bigcirc$  to switch to next parameter setup. Press  $\triangle$  and  $\nabla$  to adjust the glittering parameter (time adjustment with 15 minutes step; " $\nabla$ " sets temperature drop or adjusts the set value of work mode. " $\triangle$ " sets temperature rise or adjusts the set value of work mode.

# [Setting Time and Temperature Program] (Attached table)

Period Display	Workday (Monday to Friday)		Weekend (Saturday to Sunday)	
	Time	Temperature	Time	Temperature
Û	06:00 getting up	20°C	06:00 getting up	20°C
12 k-	08:00 working	15℃	08:00 working	20℃
<u> 131-</u> 1	11:30 noon break	15℃	11:30 noon break	20℃
<u> </u>	13:30 working	15°C	13:30 working	20℃
<u> </u>	17:00 off work	22°C	17:00 off work	20℃
Û	22:00 rest	15℃	22:00 rest	15℃

#### [Senior Options]

Turn off the thermostat, then keep pressing the button © for 5 sec, it enters into the senior parameter setup. Users can calibrate TEMP, select TEMP sensor type, setup the starting TEMP difference, open low-TEMP and high-TEMP protection, choose the the rest weekend type, reset the factory parameter and WIFI connection mode.

After entering the senior patameter setup, then press the button 0 to switch the menu. Then press the button " $\textcircled{\blacktriangle}$ " and " $\textcircled{\blacktriangledown}$ " to adjust the corrct value, it will automatically be confirmed 5 sec later.

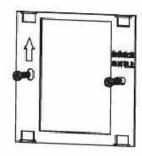
Display Number.	Selection Content	"▲" button or "▼" button
1	Temperature compensation for inbuilt sensor	-9°C to +9°C, the default value is -2°C.
2	The starting temperature difference	I'C-5°C  When the setup temperature is higher than or equal to the sum of room temperature and the starting temperature difference, the heating equipment will start; when the room temperature is higher than or equal to the sum of the setup temperature and the starting temperature difference, the heating equipment will shut off. E.g. when the starting temperature difference is equal to 2°C, the setup temperature is 25°C and the room temperature is 24°C, the heating equipment will not start; when the temperature low down to 23°C, the heating equipment will start.

		IN: inbuilt sensor (indoor sensor subject to temperature
		control and limit)
		OU: External sensor (outdoor sensor subject to
		temperature control and limit)
		AI: all ( inbuilt and external ) sensor (inbuilt sensor for
3	Selection of sensor type	temperature control and external sensor for temperature
	1	limit)
		Note: please select the right sensor type. If it is wrongly
		selected or the sensor is damaged, the LCD will display
		ERR, and the thermostat will stop to work until the faul
		is climinated.
		5-10°C. At the Max setup temperature 10°C, press the
		button A to display again, it displays "" which mean
4	Setup of low-temperature protection	to cancel the low-temperature protection function. If the
		room temperature is lower than the setup low-temperature
		protection point the heating equipment will be forcible
		restarted. The default point is 5°C.
		35-70°C. At the Min setup temperature 35°C, press the
		button V again, it displays "" which means to cance
	Setup of high-temperature	the high-temperature protection function. If the roon
5	protection	temperature is higher than the setup high-temperature
		protection temperature, the heating equipment will be
		forcibly shut off. The default point is 45°C.
		Two-day weekends: 1234567
6	Rest weekend selection	One-day weekend: 123456 and 7
		-: to cancel the 7-day programable
		to cancer the 7-day programable
7	Fortest	Press ▲ and ▼ for 5s for confirmation.
,	Factory reset	Press and v for 5s for confirmation.
		the icon flahes quickly is quick connect mode (default
8	Wifi connection mode	WFI the icon flahes slowly is hot distribution network mode
		Press ▲ and ▼ for 5 sec to switch the wifi connect mode

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#### [Installation Instruction]

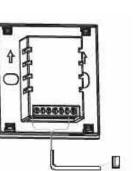
Please follow the instructions to make the correct instllaion.



Step 1: Take out the screws and board from the box, then fix the board on the wall the same as the pictures.

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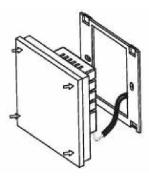
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Step 2: Connect the wires the same as the picture.

The detailed connect way refer to the wiring diagram.

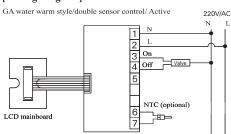
11



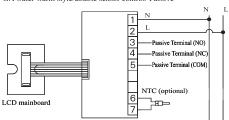
Step 3: Mount the themostat onto the board the same as the arrow direction.

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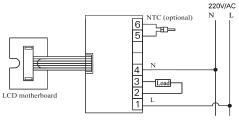


GA water warm style/double sensor control/ Passive



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GB electric heating/style/ double sensor control



Remarks: this figure is only for reference. The exact wiring way is subject to the wiring diagram on the back of the power box.

#### [Cautions]

- ★ Please connect wires in strict compliance with the installation wiring diagram;
- $\bigstar \quad \text{Please install a thermostat correctly in strict compliance with the installation diagram}$
- $\bigstar$   $\;$  Do not pull the cable forcibly, or it may be damaged;
- ★ Do not squeeze the LCD or scratch the LCD surface during the installation;
- ★ During the installation, do not knock those electronic components on the circuit board, and do not drop or deform the back cover

- ★ If hard plastic lines are used during the installation, do bend it into a appropriate angle firstly
- ★ Do not drop it into construction mud..

#### [Malfunction disposal]

Statement: Only professional technical personnel can maintain the products of our company.

Malfunction	Disposal	
Boot-strap error	Check L.N power and the wiring connection     Check the power on/off button;     Change the control board, or change the power supply board     Check the connection of wiring between the control board and the power supply board	
LCD garbled	★ The back shell may be deformed during the installation, loos the two fixation screws	
No output with right display	★ Change the control board and then change the power plate     ★ Power control panels and connecting cable may be damaged	
Remote failure	Check whether there is a remote battery power     Change the remote	
Temperature display abnormal.	★ The temperature hasn't been calibrated.	

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#### **ABOUT WIFI**

#### WI-FI CONNECTION

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings through your smartphone or tablet. This will allow allow communication between your connected devices

Step 1 Download Smart life App or Tuya Smart app in your app Store. Alternativly, you can scan the below QR codes.



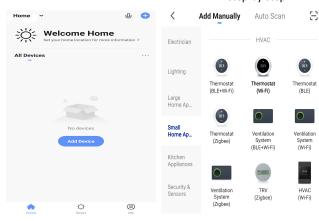




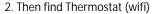


Step 2 After Register your account, connect wifi with thermostat.

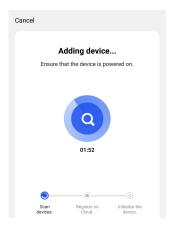
Open the app, please use your mobile phone number or email to register your account firstly. Before you connect wifi with thermostat, pls make sure that the wifi signal is strong enough. Then turn on thermosat and connect the wifi step by step.



1. Add the device.



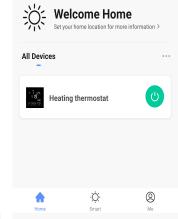




3. Input the wifi password.



4. It will search the nearby device.

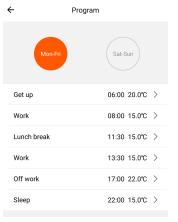


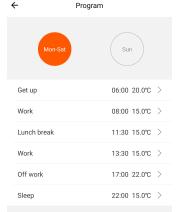
#### Step 3 After connect the wifi, program your thermostat.



- 1. Turn on/off thermostat.
- 2. Up or down the desired TEMP.
- 3. Lock the button of thermosat.
- 4. Setup the Timer On and Timer Off.
- 5. Switch the working mode between Manual working mode and Programmable working mode by Program switch button.
- 6. Choose the week program "5+2" mode or "6+1" mode by Program button. In the different mode, you can set six period time with six desired TEMP.
- 7. Calibrate the correct detected Room TEMP by Compensation button.

Step 4, Setup the "5+2" Week program and "6+1" Week program.



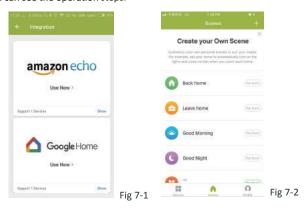


"5+2" means Mon-Fri and Sat-Sun

"6+1" means Mon-Sat and Sun

#### How to connect your device to Amazon Echo or Google Home?

In your profile, click *Integration* into the using page. Press *Use Now >* (Fig 7-1) for your Amazon Echo or Google Home or Tmall Genie or IFTTT then you can see the operation steps.



#### SIMPLE EXCEPTION HANDLING

No.	Phenomenons	Handling
1	Power is on but without display.	* Check if the terminals between LCD panel and Power Unit Box is loosen.
2	Without output but display works.	* Use a new LCD panel or new Power Unit Box to replace the old one.
3	Room Temp. Is a little different from the actual.	* Do temperature calibration in item 1 of high senior options

#### **SERVICE**

Your thermostat carries an 24 months warranty from date of purchase. Service outwith the warranty period may incur a charge. More detail please contact with us directly.