GREENBREEZE®
EUROPE

GB6500E LED SMART THERMOSTAT

Google Assistant

Amazon Alexa

ANDROID APP ON Google play

Download on the App Store

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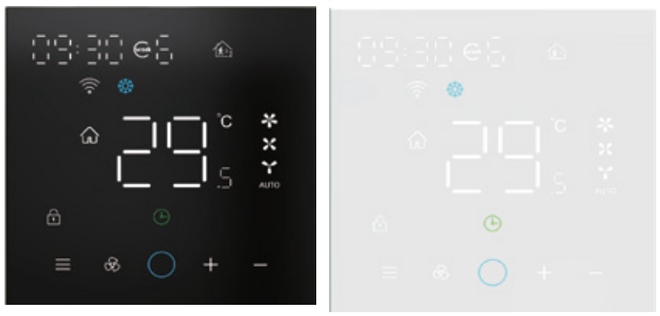
Instructions GB6500E LED FCU



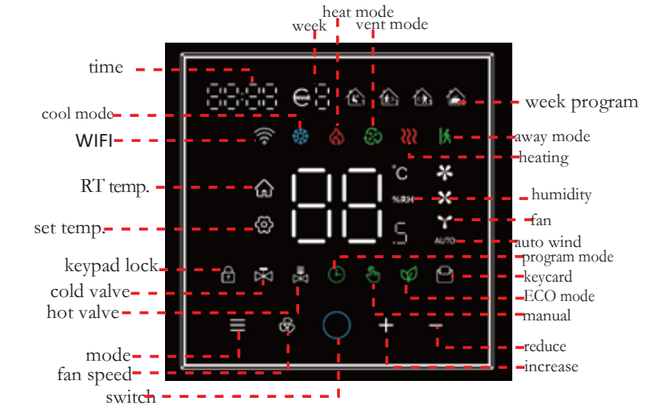
Appearance Features

1.LED Display: High-end VA display with a wide viewing angle
2.Capacitive Touch Button
3.Ultra-thin 12mm
4.Side holes for heat ventilation and accurate room temp.

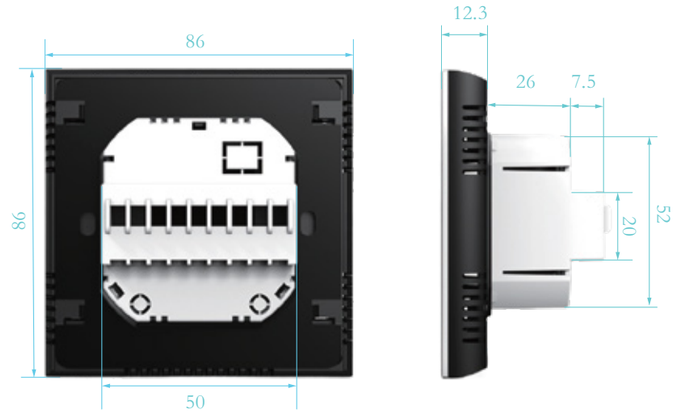
Functional Features

1.High-Precision Temperature Display: Display accuracy of ±0.5° C, with a temperature adjustment ±0.5° C.
2.Power Failure Memory Function: Safely saves all settings; no need to re-adjust after a power outage.
3.7-Day, 4-Time Period Programming: Flexible control to reduce energy consumption.
4.Child Lock Function: Prevents accidental operation by children, ensuring safety
5.Anti-Freezing Function: Protects home equipment from freezing under low temperatures
6.Building Control Communication: Employs an RS485 hardware interface executing the standard Modbus protocol, enabling a building control network with up to 32 thermostats connected in series.

Product description



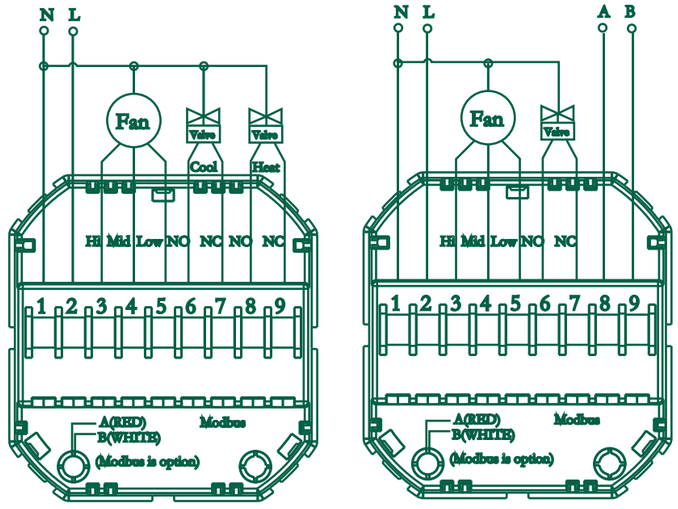
Dimension Unit: mm



Technical Specifications

•Power Supply Voltage: AC 85~250V, 50/60Hz
•Operating Environment: 0° C to 50° C,
Relative Humidity ≤90%, non-condensing
•Storage Temperature: -10° C to 60° C
•Product Power Consumption: <1.5W
•Temperature Sensor: NTC thermistor
•Temperature Setting Range: 10° C to 32° C
•Temperature Display Accuracy: ±0.5° C
•Temperature Measurement Accuracy: ±1° C
•Display Screen: LED
•Buttons: Capacitive Touch Button
•Load Current: Resistive load 2A, Inductive load 1A
•Casing Material: ABS+PC, flame retardant rating UL94 V-0
•Dimensions: 86 x 86 x 12.3 mm (Width x Height x Depth)
•Mounting Hole Distance: EU or Standard Eletric Box
•Wires on Terminals Wire 2*1.5 mm² or 1x2.5 mm²

Wiring diagram



Note

1.Professional wiring is required, following the wiring diagram and electrical specs.
2.Water, mud or any impurities should be kept out of the thermostat, or electric element will be damaged!
3.Not suitable for high-humidity environments.
4. Avoid direct sunlight.
5.External sensor cannot be more than 10 meters

MAKE SURE POWER IS OFF BEFORE ELECTRIC CONNECTING WITH PROFESSIONAL!

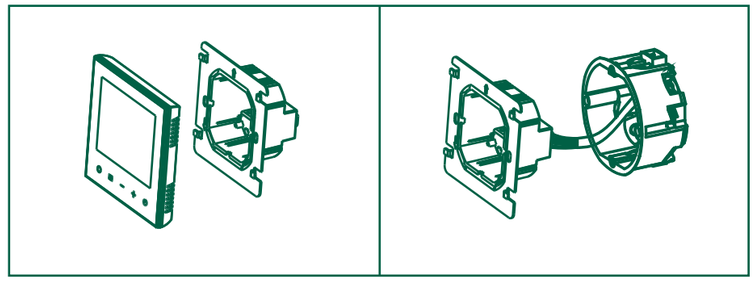
Installation Instructions

This thermostat is designed for flush-mounted installation , requiring a 35mm(minimum depth)

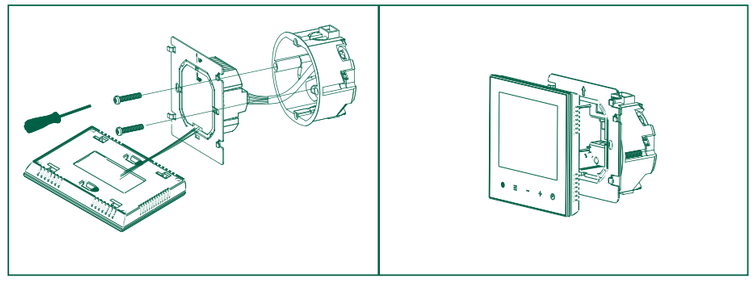
Correct: 1.Install the thermostat at eye level for optimal visibility.
2.Please read the manual to fully understand the product.

Wrong: 1.Do not install the thermostat near heat sources, as this can affect the right temperature detecting
2.Avoid pressing hard on the LED screen, as this may cause irreparable damage.

1.Disassemble the Control Panel: Use a 3.5mm screwdriver in the 4mm slot.
2.Push up to open the clip.



3.Attach the base with screws, then connect the wires to the terminals as shown in the wiring diagram.
4.Firmly press down to lock it in place, completing the installation.



Problems

NO.	Problem	Solutions
1	Power is on but display off	Check if the terminals between LED and Power Unit Box is loose.
2	Without output but display on.	Use a new LED panel or new Power Unit Box to replace the old one
3	Room Temp is not accurate	Temperature calibration in No.3 of advanced settings

Menu Operations

1.Power On/Off: Press the power button " ".

2.Set Temperature: Press the "+" or "—" button.

3.Mode Selection: Press the "☰" button to choose from the following

4 modes:Cooling , Heating , Ventilation .

Press and hold " ☰ " button, choose mannal mode and program mode.

Press and hold " " button,display energy-saving mode

4. Fan Speed switch: tap " "to switch over Low, Med, High or Auto.

5.Button Lock/Unlock: Press and hold two buttons "+" "—" simultaneously for 3 seconds to lock or unlock the buttons.

6.Resetting to Factory Settings (Caution!) Turn off the thermostat, disconnect the power, then reconnect the power and press and hold two buttons "☰"and "—" for 5 seconds until FSET shows. The device will restore to factory settings .

7.Time Calibration

Turn off the thermostat , press and hold the " " button for 3 seconds.

*Set Hour: The first two number of flash,Press the "+" or "—" button to set the hour.

*Set Minute: Press the " " button again, the last two number of flash. Press the "+" or "—" button to set the minute.

*Set Day of the Week: Press the " " button again, the number will flash. Press the "+" or "—" button to select the day of the week.

8. Programming mode setting:

7-Day, 4-Time Period Programming:

*Power on,press and hold " " for 3 seconds, the number will flash.

Press the "+" or "—" button to set the the day of the week.

*Press the button" "again,the first two number of will flash;press the "+" or "—"button to set the hour.

*Press the button" "again, the last two number of flash, press the "+" or "—" button to set the minute.

*Press the button " "again, the temperature flashs, press the "+" or "—" button to set the temperature. After setting the first time period, press the button " " to move on to the second time period.

9.Network Query: Hold " "and "—" button for 3 seconds to check status. "888" shows the IP, and the last" " indicates "L" for connected or "n" for not connected(Modbus version).

Building Management System (BMS) Control:

Thermostat terminals A and B serve as communication ports for the building's BMS.

Protocol parameter

Communication protocol	MODBUS
Data transmission mode	RTU
Error detection	CRC-16/MODBUS
Communication bus	RS-485,half-duplex
Baud rate	9600bps
Word width	8bit
Parity check	No
Stop bit	1bit

9.Advanced Settings:

Turn off the thermostat , press and hold two buttons" " "for 3 seconds to enter the advanced settings. press the " ☰ " button to select options,press the " + " or " — "button to adjust the settings. The option adjustment interval is 60 seconds.

No.	Function	Operated by +/— button	Default
1	2/4 Pipe	2: Two Pipe 4: Four pipe	04
2	Working Mode	1. cooling 2.heating 3.cooling/Ventilation 4.heating /Ventilation 5.cooling/heating /Ventilation	05
3	Temp Calibration	-5℃-5℃	0℃
4	On Diff. Temp	0.5-5 ℃	1℃
5	Max.setpoint	21℃~32℃	32℃
6	Min.setpoint	10℃~20℃	10℃
7	Fan Status (When room temp has reached setpoint)	OF: the fan will turn off. AU: The fan will keep running. In auto fan, the fan goes to low speed. In manual fan, keep the same speed H,M,L	OF
8	Lock buttons	1.Mode ; 2 Mode,Fan 3.Mode,Fan,+ ,-; 4.all buttons	4
9	Anti-freezing	OF: Off; ON: On	ON
10	Anti-freezing temp	1-15℃ , when thermostat is off , if we set the Anti-freezing temp to 5℃. when room temp is less than5 ℃ , the heat -ing would be on and heat until to 7 ℃	5℃
11	EEPROM: The status and settings are main -tained in case of electric power cut off	OF :off ; AU: on status like before power shut down	AU
12	Modbus IP	01~F7	01
13	Control Permissions	1: Local Control Only 2: Remote Control Only 3: Both Local and Remote Control	03
14	Parity Settings	1.No Parity 2.Odd Parity 3.Even Parity	01
15	Baud Rate	1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps 5: 115200 bps	02
16	keycard or external sensor	1.keycard (pull out keycard ,goes to energy saving mode) 2.external sensor (if no connect exeternal sensor,the LCD would show ERR) if connect to exernal sensor,the internal sensor is invalid)	01
17	ECO	1.keycard normally open (take out keycard), goes to ECO . 2.keycard normally close (take out keycard), goes to ECO. 3 Button:long press Power button ,goes to ECO,press any button to get out of ECO.	03
18	Heating temp of ECO	10~21℃	18℃
19	Cooling temp of ECO	22~32℃	26℃
20	Fan speed of ECO	1.Low 2.Auto	2
21	Standby brightness	0-10 don't sent more than 2 , to protect the lifetime of the LED	2
22	In the 4-pipe system, fan operates in heating mode	OF: Off; ON: On	ON
23	Version#		001

We are at your service

The thermostat warranty period is 18 months from the date of purchase. Additional service charges may be charged after the warranty period. For more details, please contact us directly.

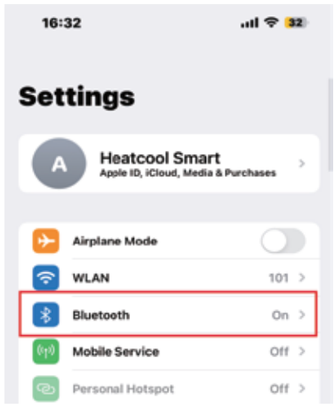
2.4 GHz, Wi-Fi Network Connection

Use your smart phone or tablet PC to scan the QR code below or Search “SMART LIFE” in the app store/Google play to download and install App.

IOS

Android

Turn on Bluetooth on the phone

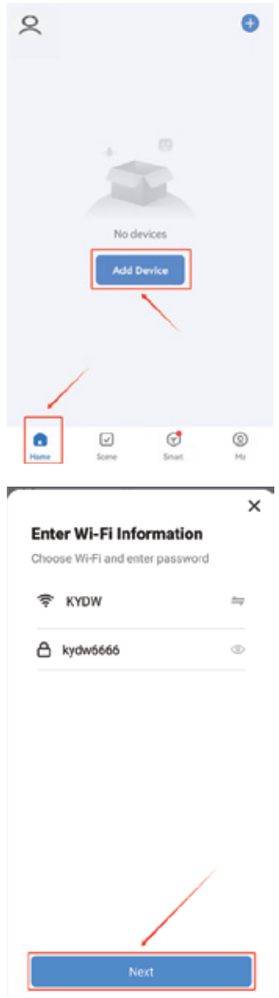


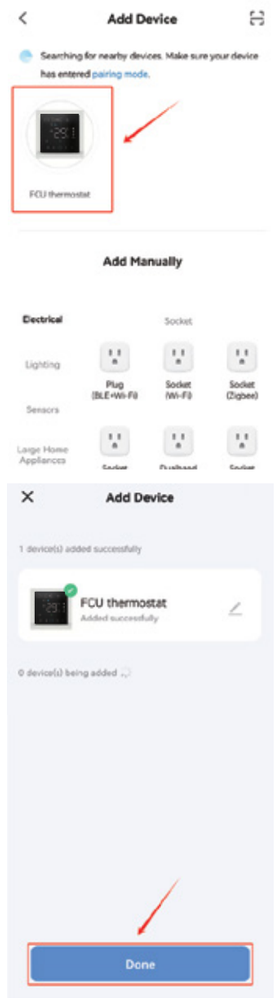
Turn off thermostat,press and hold the icon " ", until WIFI icon " "shows and flashes.

Add the thermostat to your network and to the app.

(Tips: Phone and thermostat must connect to the same network.)

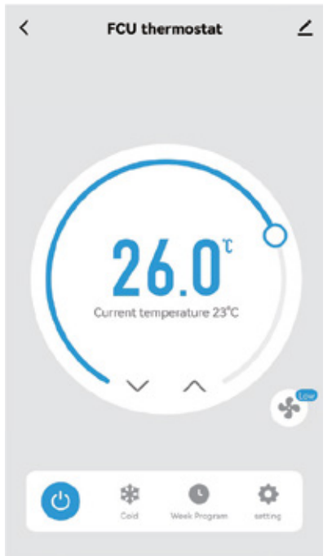
- Press the “+” on the upper right corner of the page,or “Add Device” to add “Thermostat”.
- Choose and click “FCU thermostat”,then select your network and back to your App to enter the password of your wireless router and confirm the button “Next”.
- After waiting for a period of time, the "done" button will appear and click “Done”,the app will connect with thermostat successfully.



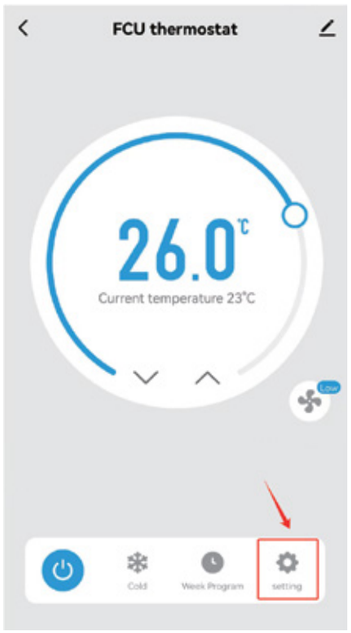


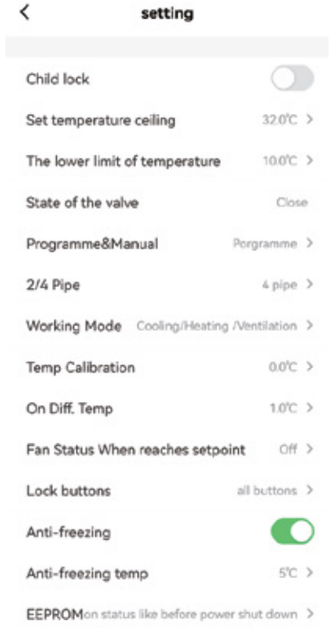
Settings on Thermostat by APP

Basic Setting,you can press ∨ or ∧ to set temperature.

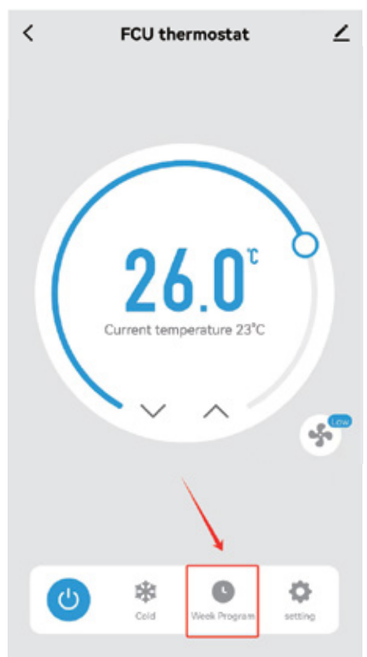


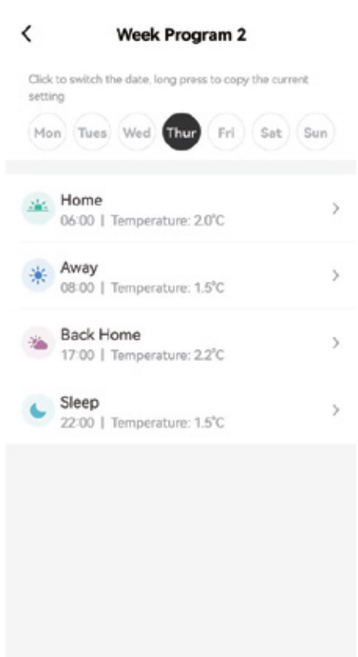
Advanced setting,click “setting”,you can set more what you want to set.





Week Program， temperatures for different periods of each day can be set weekly.

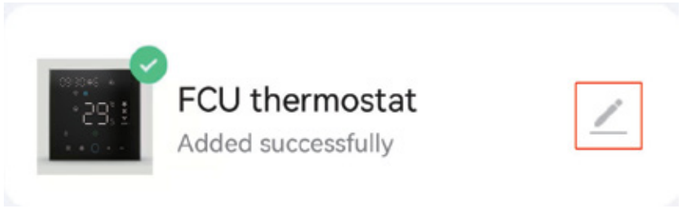




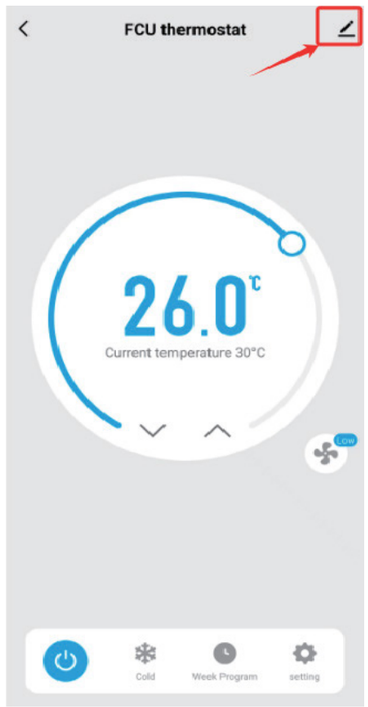
More Settings on Thermostat by APP

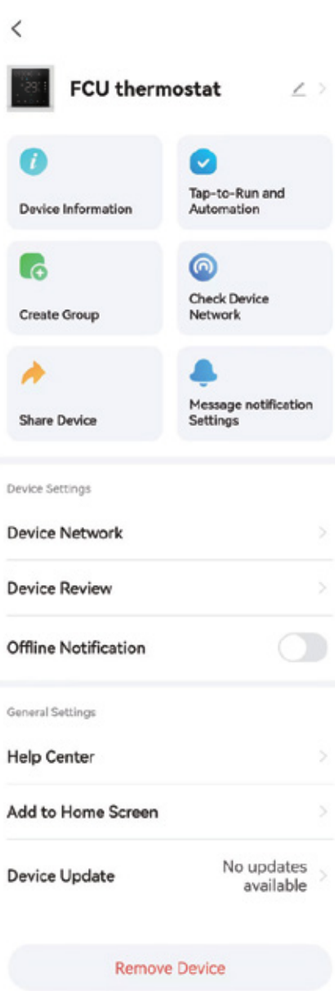
Click ✎ in the upper right corner,more function about the thermostat can be set.

•Click this can rename the thermostat.



- “Device Information”:virtual ID of thermostat.
- “Create Group”:same group be controlled together.
- “Share Device”:share it with others.
- “Device Update”:click this can update to the latest version.
- “Remove Device”:click this can delete the thermostat device.

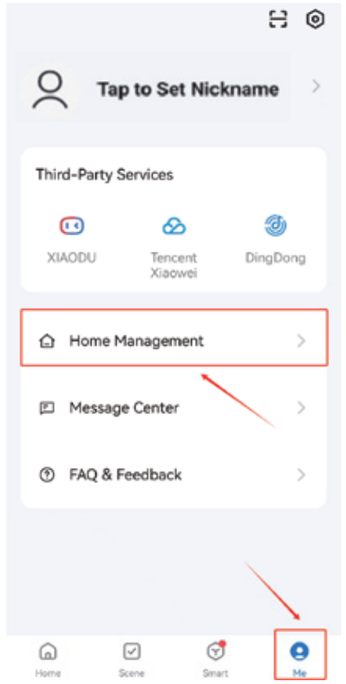


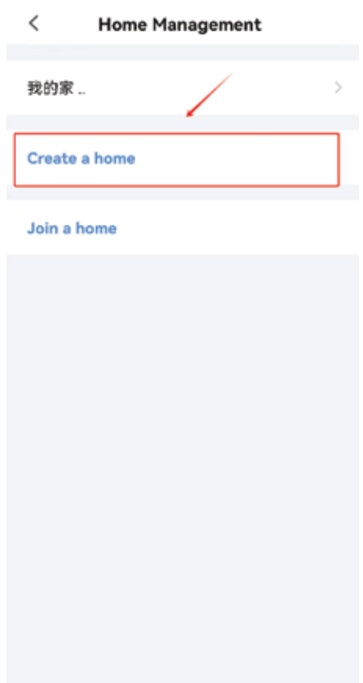


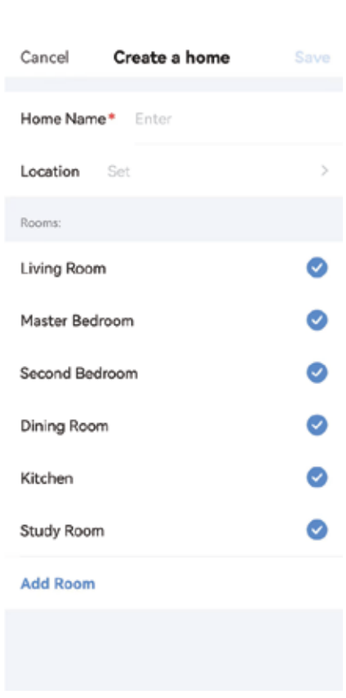
Home Management

•Click “Me” > “Home Management” > “Create a home” ,can set home info.

•On the “ Home Management ” interface , the home info is displayed,click the name, click the “Room Management” can add device in different rooms;





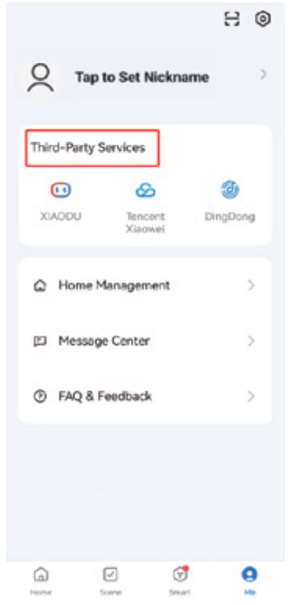


Voice Command

•Tips: You can name the device yourself.

•The temp unit of the thermostat and speaker (℃, ℉) must be the same.

•After waking up the speaker, you can say:



Amazon Alexa

"Alexa, open <device name>."

"Alexa, close <device name>."

"Alexa, what is the target temperature of the <device>?"

"Alexa, set <device name> to 20"

"Alexa, set <device name> to N"

Google Assistant

"OK Google, turn on <devcie name>."

"OK Google, turn off <devcie name>."

"What is the temperature of <device_name>?"

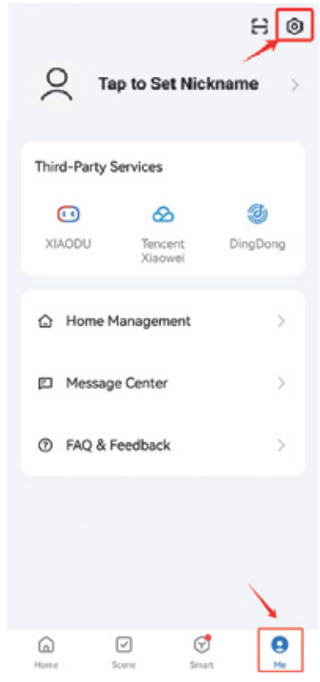
"OK Google, set the <device name> to 20 degrees"

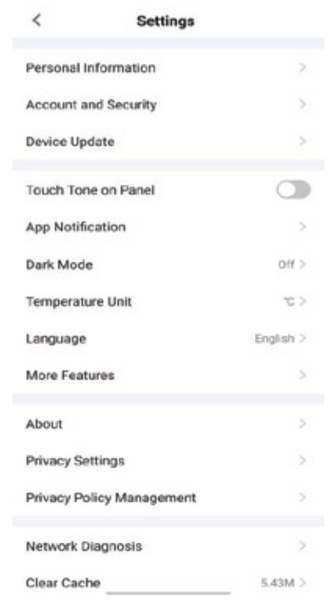
"OK Google, set the <device name> temperature to 20"

"OK Google, set the <device name> temperature to N"

APP Account Settings

This interface can set your personal information、app language and so on.





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