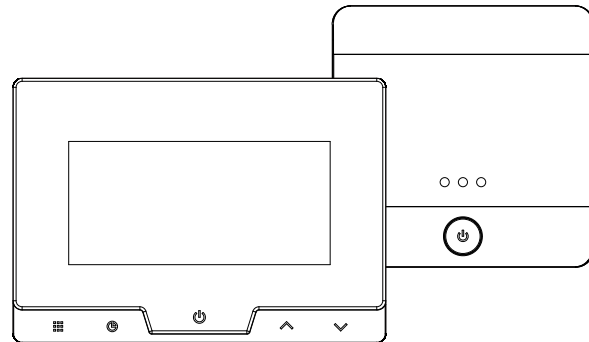


T19XWHB-7-RF-APP(TY)

OPERATING
INSTRUCTION

A4

OPERATING
INSTRUCTION



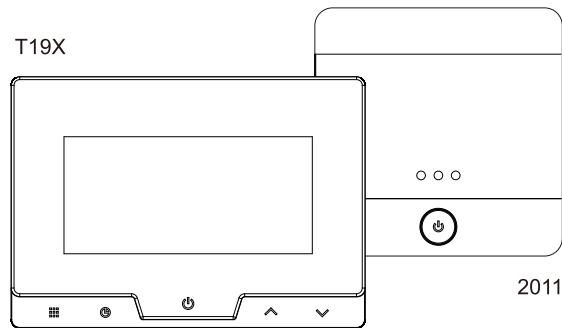
T19XWHB-7-RF-APP(TY)

Contents

Product introduction ----- 01

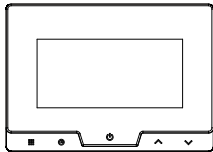
Quick installation and operation ----- 09

Link APP ----- 27



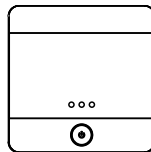
This unit is suitable for mobile phone remote temperature control of the boiler.

SPECIFICATIONS



(T19XWHB-7-DF-APP)
thermostat

- Power source: 4 AAA batteries, USB power supply (5v 1000mA)
- Output: 1 channel passive linkage output (8A)
- IP Rating: IP21
- Temperature setting range: 5°C~35°C
- Temperature setting accuracy: 0.5°C
- Temperature display: 5°C~50°C
- Temperature display accuracy: 0.1°C
- Operation temperature range: 0°C~50°C
- Shipping & storage temperature: -10°C~60°C
- Frequency: 868MHz (Bidirectional FSK)
- Wireless transmit range: 100M



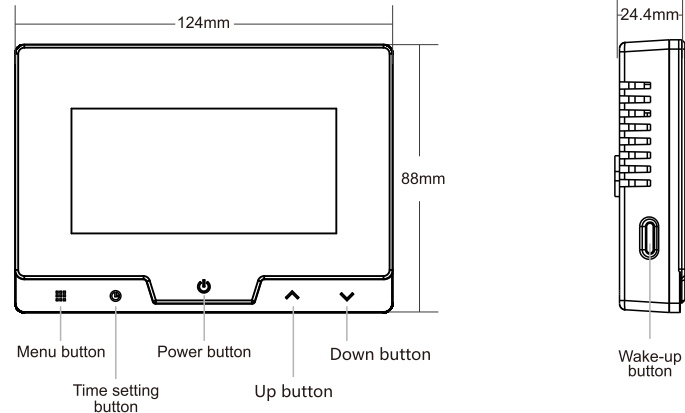
SAS2011DE-WIFI(TY)
GATEWAY&RECEIVER

- Power source: 100-240VAC 50/60Hz
- Output: 1 channel passive linkage output (10A)
- IP Rating: IP21
- Ambient temperature transport: -10°C~60°C
- Temperature setting range: 0°C~50°C
- Frequency: 868MHz(Bidirectional FSK)
- Wireless transmitting range: 100M
- Communication protocol: TCP/IP, MQTT
- Wi-Fi frequency: 2.412GHz- 2.484GHz

FEATURE

- Can be placed anywhere in the home to detect and control the temperature of an area of the user's choice. Not limited by power control wiring locations
- Large LCD display
- The screen displays the set temperature and the room temperature also time simultaneously
- Permanent user setting and program setting retention during power loss
- Both Vacation mode and hold duration mode available for comfort and energy saving
- Optional programming Period: 7 individual day or Separate 5-day (weekday) and 1-day/1-day (Saturday/Sunday) programming with 4 or 6 separate time/temperature periods per day.
- Display temperature recalibrates
- Low battery indication
- Anti-freezing protection
- Window open function

Thermostat's appearance





Menu button: switch programmable mode or temporary hold mode ;
In power on and programmable mode , Short press “” button is the switch key program operation and manually operation; Hold button more than 3 seconds to enter Program setting , press “” “” to adjusting, press “” to exit.



Time setting button: In running mode, short press “” to enter switch display for temperature setting and time , press “” for 3s to enter time setting , press “” or “” to switch the year , month , day and hour. press “” “” to adjust minute. Press “” to confirm and exit, short press “” again to enter hour adjustment, press “” “” to adjust hour. Press “” to confirm and exit, short press “” again to enter week adjustment, press “” “” to adjust week, Press “” to confirm and exit.



power \confirm button: In setting mode (program setting mode, menu setting mode, time setting mode) short press confirm and exit. In normal boot working status, hold “” button for 3 seconds to turn on , In normal shutdown state, short press “” button to turn on. when the thermostat is in power saving (display no backlight), press “” button for 0.5s to wake.



Up button



Down button

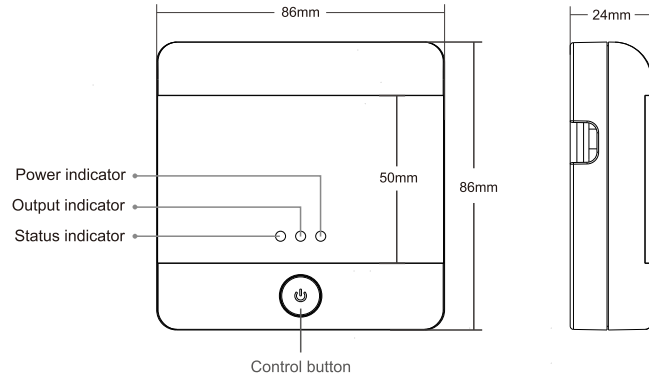


Wake button: Short press to light the backlight

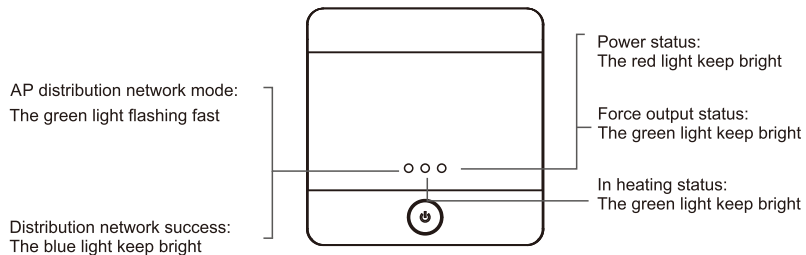


When the thermostat is in the standby state or there is no operation for a long time, please long press the power button “” for more than 0.5s to wake up the button, and the button can be operated.

Receiver's appearance



Receiver status indicator



* Force output: in shutdown status, long press receiver until light turn to green.
It will force boiler heating when thermostat is broken

WIFI signal strength judgment

Use your mobile to check if the WIFI signal stable or not.



For gurantee the control effort ,
suggest the range not over 30m

REMIND

ATTENTION !

1. Turn off power of your house, then open boiler board and connect the signal wire.
2. Thermostat position is within the range of WIFI signal coverage range.

* Notice

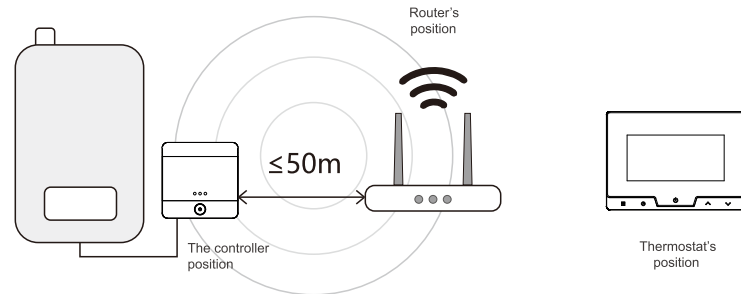
It will directly interfere the thermostat practically operation by signal strength , so please confirm that the thermostat installation position covered by WIFI and with good signal .

INSTALLATION PLAN A (SAS2011 as gateway & receiver)

When WIFI is covered with boiler signal

(Need to be confirmed by
installer at site)

SAS2011 the receiver need to be installed in the boiler signal area,T19 transmitter can be put wherever you want.



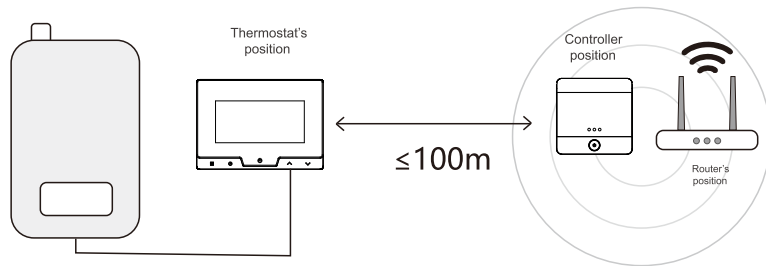
* Thermostat and receiver's distance can't over 100m in open area.

INSTALLATION PLAN B (SAS2011 as gateway only)

When WIFI are not cover with boiler signal wire

(Need to be confirmed by installer at site)

The T19X transmitter need to be installed in the boiler signal area, SAS2011 the receiver need to be installed in WIFI coverage area



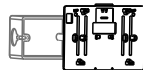
* Thermostat and receiver's distance can't over 100m in open area.

Thermostat install on the wall

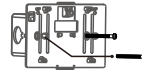
* PLAN B WIRING

T19X need to connect with signal wire,
The terminal is at the back board, below wiring diagram for your reference

1 put the back board on the installation box



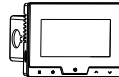
2 put the screw into the hole and screw down



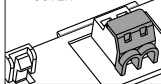
3 Cover the panel



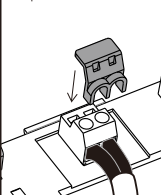
4 Completing installation



1 TAKE OFF THE SAFETY COVER



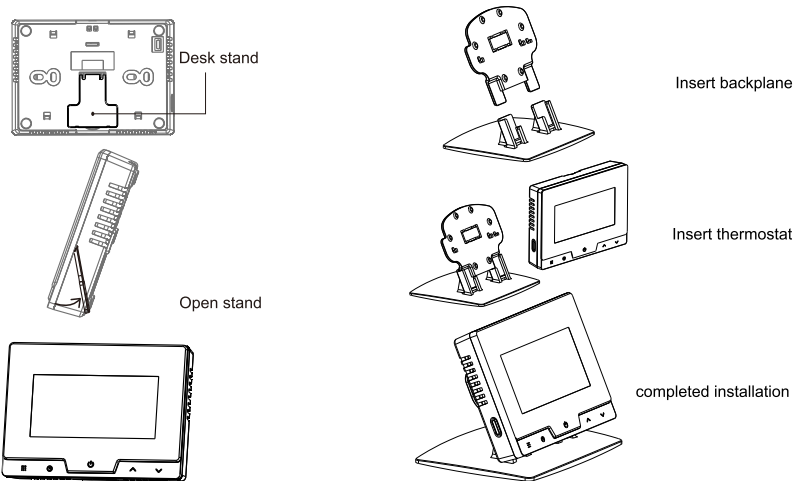
3 Install the safety cover, do the protection.



2 WIRING CONNECTION



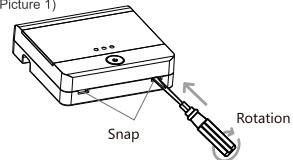
The way of put your thermostat on the desk



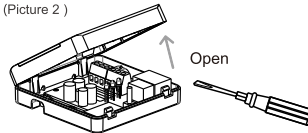
Install receiver

- 1 Open receiver's panel**
Pry the Buckle with a flattened screwdriver

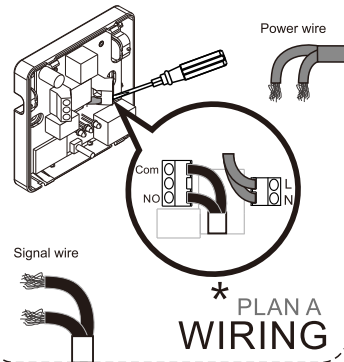
(Picture 1)



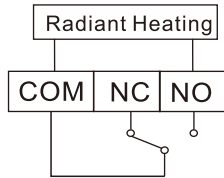
(Picture 2)



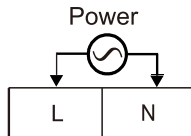
- 2 Wiring:** Put the wire into terminal then tighten with a flattened screwdriver



The wiring diagram

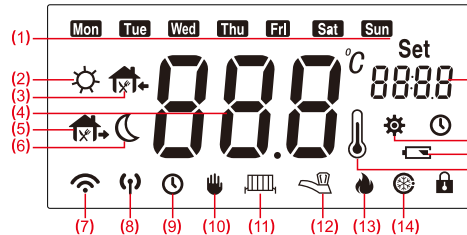


I_{max}:250VAC / 10(6)A



Power:100-240VAC 50/60Hz

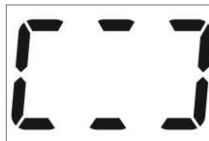
Thermostat display description



- (1): Week shows
- (2): Time Bucket flag-Wake up
- (3): Time Bucket flag-Back home
- (4): OFF\ Temperature shows
- (5): Time Bucket flag-Out home
- (6): Time Bucket flag-Sleep
- (7): Communication show
(blinking indicates communication error alarm)
- (8): Alternate button
- (9): Time shows, Running mode shows
- (10): Forever keeping mode shows
- (9) and (10) show at the same time means temporary mode
- (11): Alternate button
- (12): Alternate button
- (13): Output shows
- (14): Anti-freezing mode shows
- (15): Setting Time\ Temperature shows
- (16): Setting shows(Parameters, programming, time)
- (17): Low battery indicator shows
- (18): Meterage shows

Window-open recognition function

When the room temperature drops by 1.5 degrees or more within 3 minutes, the window opening mode is automatically turned on and the heating is stopped. You can manually restore to the previous operating mode by pressing any key. In the windowing mode, when the temperature starts to rise 1.5 degree or the window opening function is turned on for 30 minutes, the previous operation mode is automatically restored.



Configuration menu setting

In standby mode, hold “” button more than 3 seconds enter the first of configuration menu setting. Press “” “” to adjust parameters. Press “” button again enter next item, press “” button confirm and return to standby mode. If no button is pressed within 10 seconds, the thermostat will automatically exit configuration setting and back to standby mode.

Step	Press buttons	Displayed (factory default)	Press 、 to select	Descriptions
1		CL(0°C)	-4°C—+4°C	Select temperature display adjustment higher or lower
2		AH (35°C)	20°C—35°C	Select maximum room temperature limitation
3		AL (5°C)	5°C—20°C	Select minimum room temperature limitation
4		bL(10)	5/10/15/---	Display Time: The unit is second When USB power supply, '---' means the display long bright. When battery power supply, '---' means display bright 15 seconds

Step	Press buttons	Displayed (factory default)	Press ▲、▼ to select	Descriptions
5		 db (0.5°C)	0.5°C~3°C	Start heating conditions: when setting temperature ≤room temperature-0.5°C, stop heating, when setting temperature ≥room temperature reduction db parameters start heating
6		 Pro (0N)	ON/OFF	Programme option ON :Turn on programming function OFF:Turn off programming function
7		 Seg(6)	4/6	Programming period in one day option 6-6 time zones; 4-4 time zones;

Step	Press buttons	Displayed (factory default)	Press ▲、▼ to select	Descriptions
8		 ES(OFF)	On/ OFF	Intelligent function option ON: Turn on intelligent function OFF: Turn off intelligent function
9		 PP(OFF)	ON/OFF	Antifreeze function option ON:Turn on the antifreeze function OFF:Turn off the antifreeze function
10	Short press “  ” button confirm and back to programming running mode			

***** In the menu settings state, when long time press"  "button more than 3 seconds, show that "DEF" flash 3 times, all parameters setting return to factory default setting and return to implied parameters setting the first item.

Programming setting

Heating Schedule Plan (Factory default program setting) :

Wake up		Out door		Back home		Out door		Back home		Sleep	
6:00	20°C	8:00	16°C	11:00	20°C	14:00	16°C	18:00	20°C	22:00	16°C

Enter Heating Program :

In programming running mode, hold “” button more than 3 seconds enter modify the time, choose the time which you want to set (press “” “” to select the time to be modified, 7 days of unified modification, 7 days of independent modification, MON~FRI unified modification / independent modification, SAT ~ SUN independent modification / unified modification), press “” button again enter programming mode to set the first mode, press “” “” to adjusting. press “” button confirm and back to running mode. If no button is pressed within 10 seconds, the thermostat will automatically exit and back to running mode. when long press button

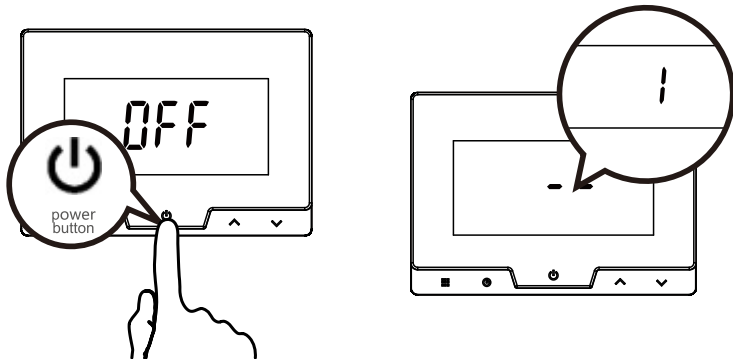
- 1). Press “” Mon (indicating Monday program) will appear in the display. Also be displayed are the currently programmed start times for the 1st heating period and the currently programmed temperature (flashing), icon indicates 1st program period (Get up) setting.
- 2). Press “” “” to change the displayed temperature to your selected temperature for the 1st heating program period.

Repeat above operation and setting as user request

Code match

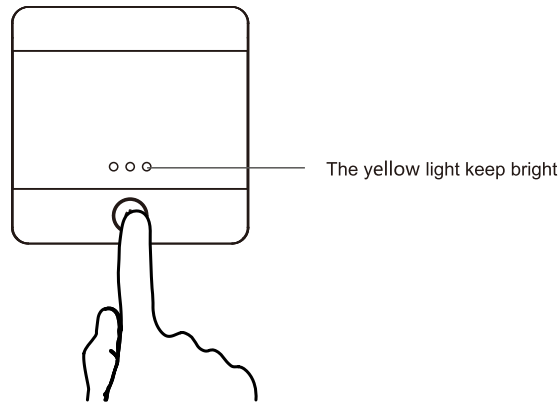
Thermostat code match

When the receiver is in code matching status. Thermostat in standby mode, pressed “” for 3s and display show “Rf2”, then short press “” to enter code match status and it will show “-”, it means sending the code command. If code match successful the display will show “01”, If code match failed, the thermostat will back to standby mode in 10 seconds.



receiver code match (under shutdown down status)

Press and hold the power button for more than 3s, the indicator light is yellow and keep bright, indicating that the code is in the code status.
If code match successful or exit the code mode Manually, the yellow light will go out.



Output description / Error warning

Output description

Power off mode: when the room temperature less than 5°C the thermostat will start Frost protection mode; when the room temperature high than 8°C, the thermostat will stop output; Any other situation has no output except these two situations

Powered on mode (heating mode):

The thermostat will stop output when the room sensor is broken or short-circuited

When Set Temperature - Room Temperature $\geq$ Temperature Difference;

When Room Temperature - Set Temperature $\geq 0.5^{\circ}\text{C}$, the thermostat will stop heating output

Error warning

1) Low battery alarm: the low battery warning sign flickers when the battery is low than 2.3V

2) Room Temp (inside room Sensor) broken or short-circuited, the thermostat will have "room ERR"

Download

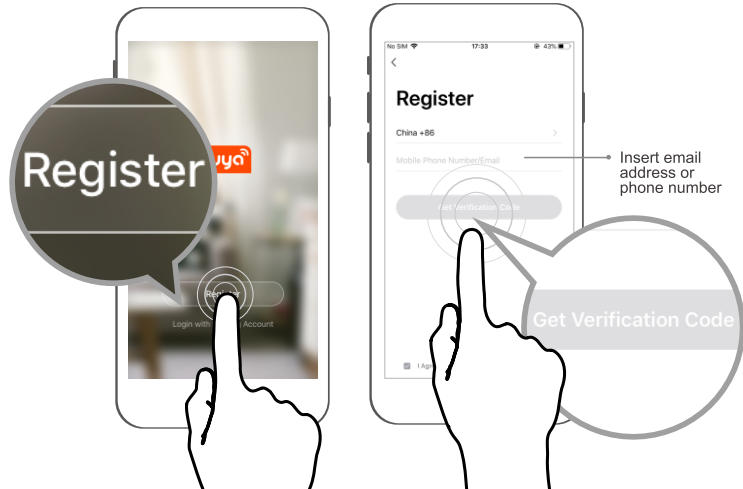


① Click App store (click Android application market)



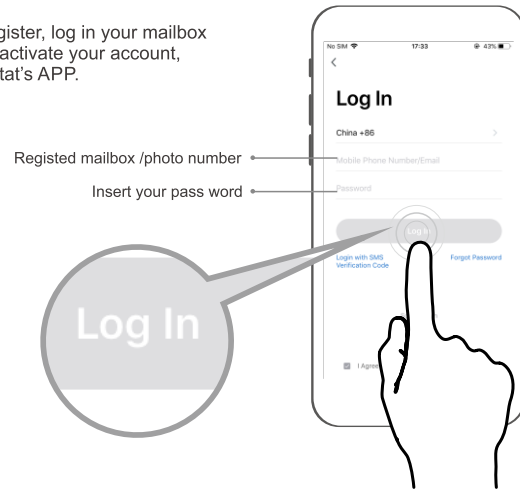
② Search "TuyaSmart" and download.

Register

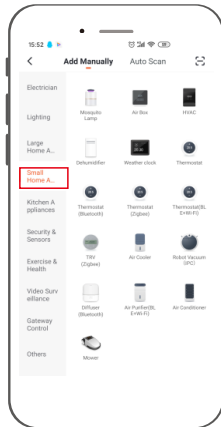


Login

When you finish the register, log in your mailbox and click on the link to activate your account, then can login thermostat's APP.



Add receiver

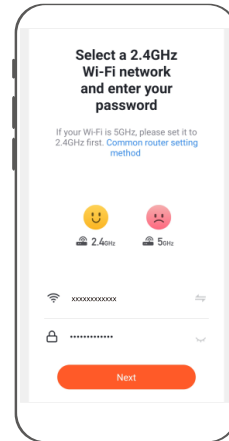


1 Click "+" on the top of right



2 Click the list bar "Small Home AP" and select the receiver in the right device list.

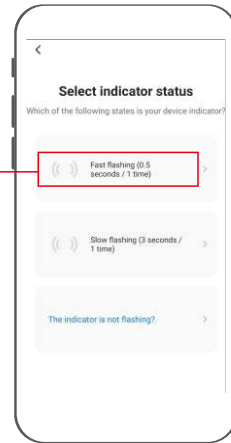
Distribution network in WIFI mode:



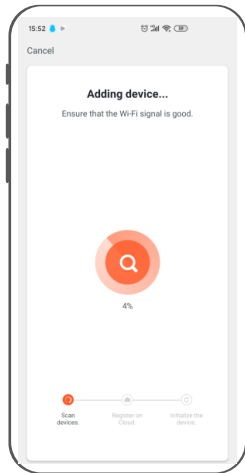
3 Confirm wi fi account and enter wi fi password, then click "Next"

The green light flashing fast

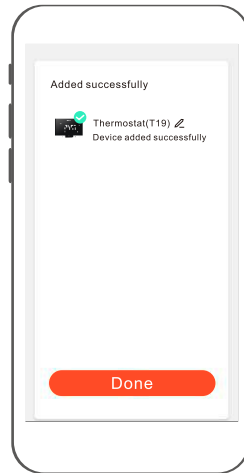
(Note: Under standby status, long press receiver until the green light flashes)



4 Click "Fast flashing(0.5 seconds/1 time)"

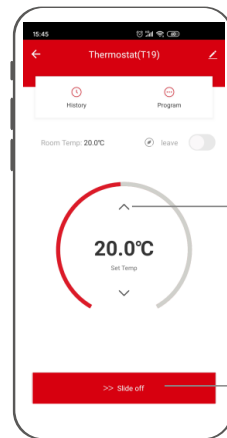


- ④ Enter automatic search and add devices and wait for a second.



- ⑤ Device added successfully, click "Done".

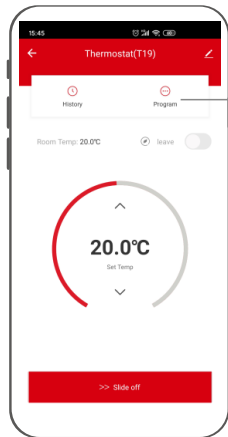
APP Setting-Temperature setting



Press "^", "v" to adjust the temperature.

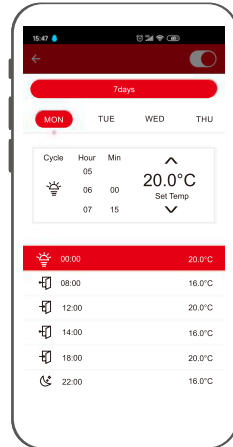
Slide the button to achieve "slide for power on" or "slide for power off"

APP Setting-Programming Setting

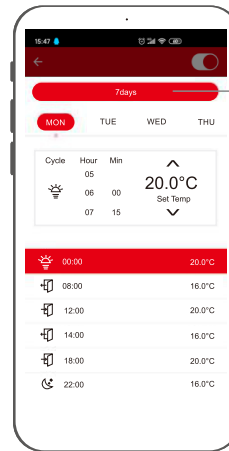


Click the "program" to enter the programming interface for selecting the period of time of 7-day programming, press "∧" "∨" to set temperatures in the different periods of time.

(click the history for checking the historical temperature records)



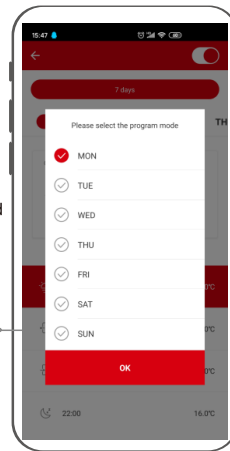
APP Setting-Multi-day Programming Setting



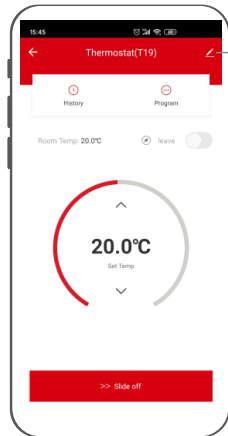
Click "7-day" to select the date

- 1 Click the "program" to enter the programming interface, then click "7-day" button
- 2 Click the date to be edited and confirm it click "OK".
- 3 Press "∧" "∨" to set temperatures in the different periods of time

Click "OK" after select the date



Exit network /Remove devices

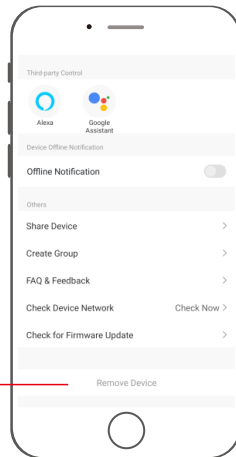


1 Click the button “✎”
In the upper right corner of the programming interface

2 Click “Remove device”.

If you want to remove from receiver, In standby status long press receiver power button until green light flashes quickly.

Click “Remove Device”



Voice command:

After waking up the speaker, you can say:

Amazon Alexa

- * turn on bedroom.
- * turn off bedroom.
- * raise the bedroom by 1 degree.
- * drop the bedroom by 1 degree.
- * set the bedroom to 16 degrees.

Google Assistant

Tips: you need connect to the Google speaker

- * turn on bedroom.
- * turn off bedroom.
- * set the bedroom to 16 degrees.

- * Tips: bedroom is the device name. You can name it by yourself.
- * The temperature unit of thermostat and speaker must be the same.