

User manual

【SAS936WHB-7-OT】



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Specification

Power supply: 2x1.5V AA alkaline batteries(LR6)

Output(Relay): I_{max} 8(5)A 250VAC

Protocol:Opentherm

Battery life:1 year

Temperature display: 0~50°C

Temperature setting range: 5~30°C

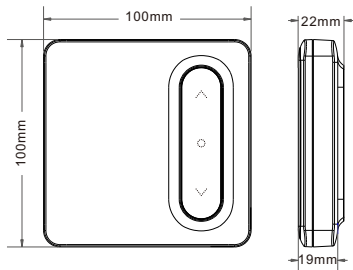
Temperature display accuracy: 0.1°C

Zigbee wireless transmit range: 30m in open air

Dimensions:100*100*19mm

Storage temperature & humidity: -10~60°C, 25~90%RH (non condensation)

Operation temperature & humidity: 0~50°C, 25~90%RH (non condensation)



(1)  Wireless icon “” always on when paired with gateway. Flash mean signal loss.

(2)  Hot water request

(3)  Central Heating

(4)  Programming mode icon

(5)  Low power alarm

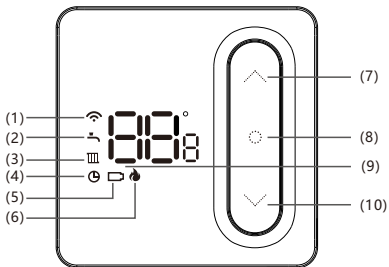
(6)  Heating output icon

(7)  Up button

(8)  ON/OFF button

(9) Room temperature or
setting temperature display

(10)  Down button



Functions

ON/OFF function

Press “” to turn thermostat ON. Press and hold “” again to turn thermostat OFF.

Key lock function

In main display interface, press and hold “” “” at the same time to activate or cancel the key lock, when activated, no keys can be used. The thermostat will display “”

Geofencing function (Only for IOS)

When it detect no one at home, thermostat will turn off heating to save energy. User could set all setting through APP.

Low power alarm

When thermostat is out of battery, it will alarm “” to remind user change battery.

Alarm instructions

In the normal operation range:NTC sensor damaged display“  ”.

Backlight display

Press “” and the backlight will be on. The backlight will disappear without operation for 5s.

Alarm instructions

Tips: Only applicable in opentherm boiler

Err.display	Result
E 1	Service request (service not req'd, service required)
E2	Lockout-reset (remote reset disabled,rr enabled)
E3	Low water press (no WP fault, water pressure fault)
E4	Gas/flame fault (no G/F fault, gas/flame fault)
E5	Air press fault (no AP fault, air pressure fault)
E6	Water over-temp (no OvT fault, over-temperat. Fault)

Operation mode

In ON status, press "  " could switch to programming/non-programming mode/hot water request mode/ Central Heating mode after successfully connecting to APP.

Programming mode: The thermostat will run according to the pre-set schedule. Screen display"  ".

Temporary mode:  keep flash. The programming will switch to programming in next schedule.

Manual mode :  disappear. Thermostat keep running according to manual setting temperature.

 Central Heating mode (Only applicable in opentherm boiler)

 Hot water request mode (Only applicable in opentherm boiler)

Noted: some of opentherm boilers do not support domestic hot water, can not use this feature.

Program setting

Default programming (4 period programming)

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

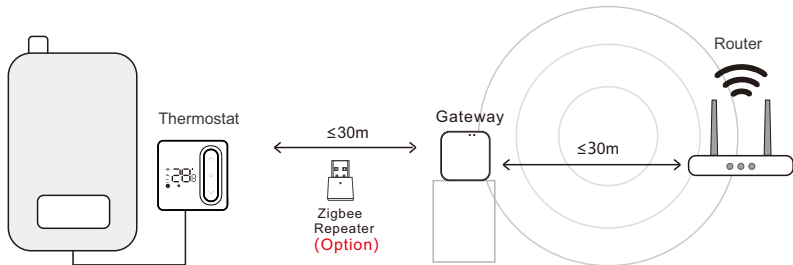
*Programming setting is from APP.

Installation location

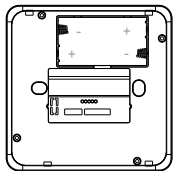
Without Zigbee repeater, wireless transmit range at open distance between thermostat and gateway ≤ 30 meters.

Worry about the Transmission distance?

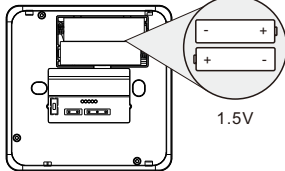
You can choose a Zigbee repeater that assists Zigbee gateways and devices to expand its signal coverage. (Zigbee repeater extend distance: about 30 meters in open air)



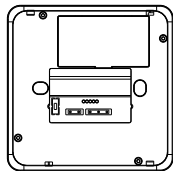
Battery Installation



Take off cover



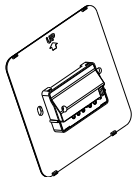
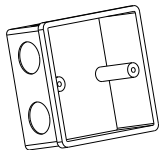
Install 2AA batteries



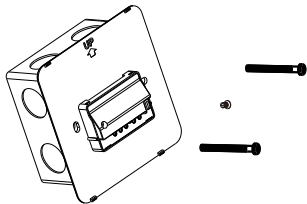
Complete installation

* Attention: Insert the batteries checking the polarities (+ / -) are correctly aligned.

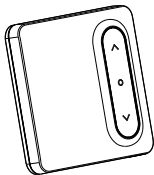
Installation



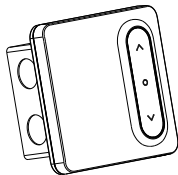
- ① Put the back board on the installation box



- ② Put the screw into the hole and screw down



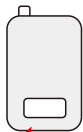
- ③ Cover the panel



- ④ Installation complete

Thermostat Wiring

Potential free relay



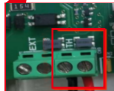
Control wires:
Usually black
or grey wires

TH TH



NC COM NO OT OT

Imax 8(5)A 250VAC



Opentherm boiler



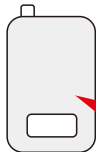
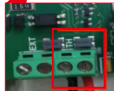
Control wires:
Usually black
or grey wires

TH TH



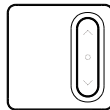
NC COM NO OT OT

OpenTherm



Control wires:
Usually black
or grey wires

LS LR



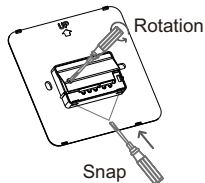
NC COM NO OT OT

Imax 8(5)A 250VAC

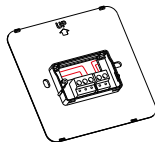


230V relay

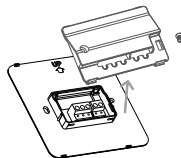
- ❶ Unscrew the terminal cover and pry the buckle with a screwdriver.



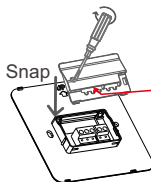
- ❸ Wiring connection.



- ❷ Take off the safety cover.



- ❹ Install the safety cover, do the protection.



After wired especially for 230V boiler. It will cause electric shock. Don't touch!

* Turn off power of your house, then open boiler board and connect the signal wire.

Download



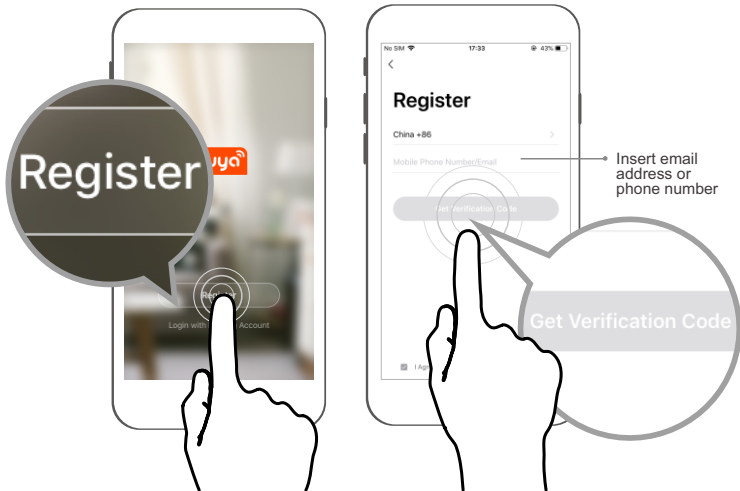
① Click App store(click Android application market)



② Search “ TuyaSmart ” and download .

Link APP

Register

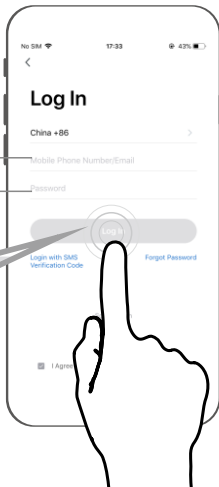


Login

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

Registered mailbox /phone number

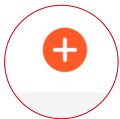
Insert your password



Add gateway

Gateway: optional purchase

- 1 Enter the "HOME" interface of the app, Click the "+" in the upper right corner .



- 2 Click the list bar "Gateway Control ", select the Gateway (Zigbee) in the right device list.

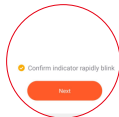


Tips: if your gateway is wired,
please click " Gateway(Zigbee) "

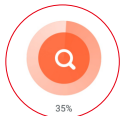
- 3 Enter your wifi account and password
Click "Confirm"



- 4 Make sure the red light is blinking fast.
Click "Next"



- 5 wait a few seconds until the search progress is 100%



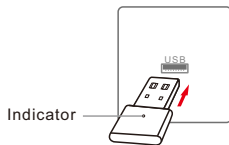
- 6 Click "Done", it means the gateway added successfully.



* Tips

- Before binding the gateway, you need to power on the gateway.
When binding a gateway, the mobile phone and the gateway must connect to the same network.

Add zigbee repeater (Option)



After the device is powered on, plug and unplug it three times to enter the network configuration state, and confirm that the indicator light flashes.

① Click "+ Add subdevice"



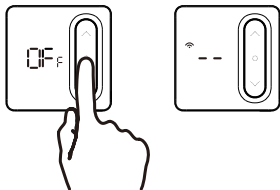
② Click "LED already blink"



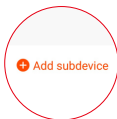
③ Click "DONE"

Add thermostat

- 1 For thermostat: In "OFF" state, long press "○" until the screen show "--", "📶" flash.



- 2 Click "Add subdevice" to enter the device list.



- 3 Click "LED already blink"



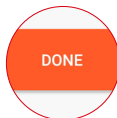
4 Search device



5 Select the type of device you want to add .

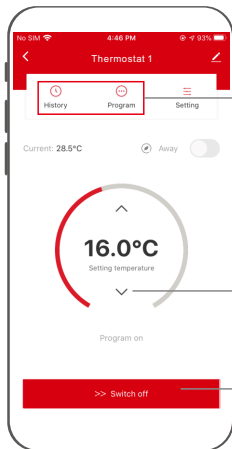


6 Click "Done", it means the TRV added successfully.



* Tips

- Gateway must be added before adding thermostat.



Click “program” to enter the programming interface for selecting the period of time of 7-day programming, press “^” “v” to set temperatures in the different periods of time.

(Click “History” for checking the historical temperature records)

Press “^”、“v” to adjust the temperature.

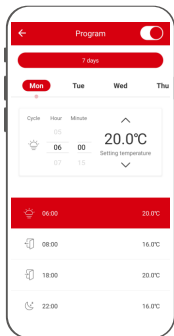
Slide the button to achieve
“slide for power on” or “slide for power off ”

Programming Setting

- 1 Click the programming to enter the programming interface.



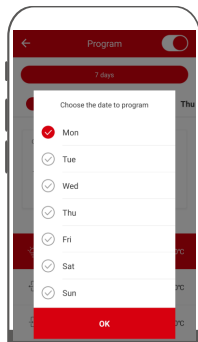
- 2 Selecting the period of time of 7-day programming, press “^” or “v” to set temperature in the different periods of time.

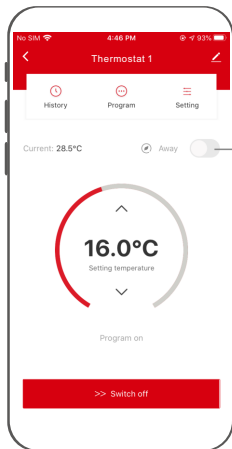


- 3 Enter the programming interface and then click the “7-day” key.

7 Day

- 4 Click the date to be edited and confirm it.

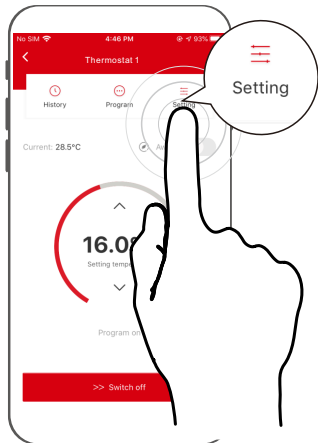




Temporary leaving mode:

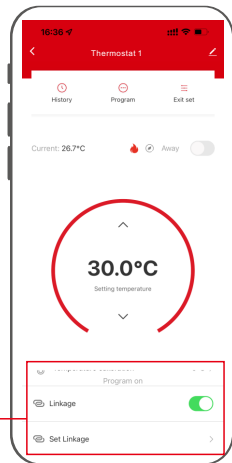
If you need to stay out temporarily, please click the button, The temperature can remain at 16°C, the energy-saving icon “🌿” turns green and is on. After your arrival at home, click the button again to recover the previous temperature setting.

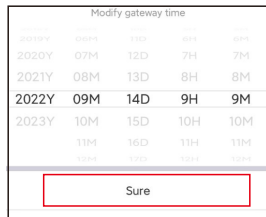
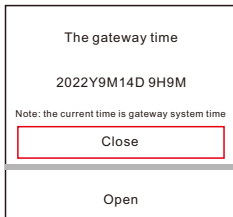
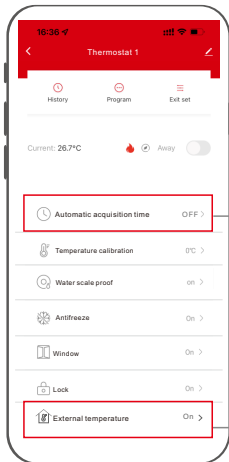
Implicit Parameter Setting



	Manual setting time	off >
	Temperature calibration	0°C >
	Water scale proof	on >
	Antifreeze	On >
	Window	On >
	Lock	On >
	External temperature	On >

Slide up and down to
view more parameters

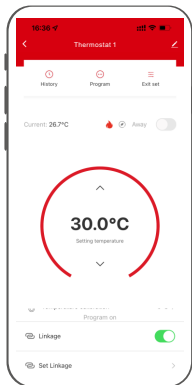




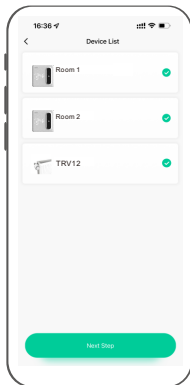
Click here to set time manually.

Click to select "On" or "Off"

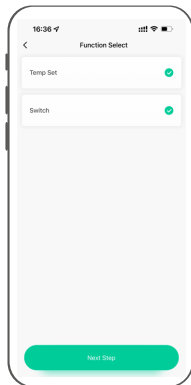
Linkage Setting



❶ Click "Set Linkage"



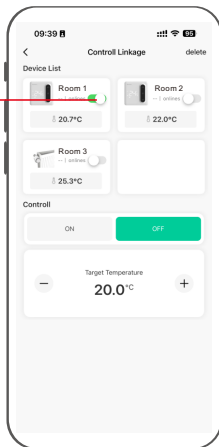
❷ Select the device you need to add, click "Next Step"



❸ Select the function you need to adjust, click "Next Step"

Master control switch

When you set a master control, the icon turn green.



Linkage group function:

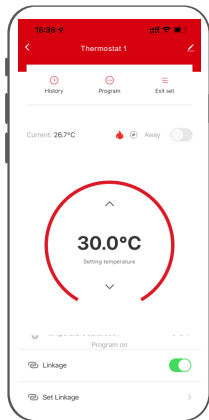
When there is multiple TRVs in a house, create groups to realize center control of several TRVs. Set a master control in a group, so all the other TRVs in same group working accordance with the master control (ON/OFF/ Setting temperature).

The master controller can be a wall mountable thermostat SAS936RHB-7-Z03 or any TRV in this group.

One house can existing several groups.

* Tips: Please turn off the TRV program before setting linkage group.

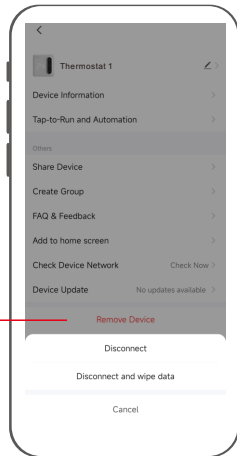
Exit network /Remove devices



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

② Click “Remove device”.

Click “remove device”
to select Disconnect /
Disconnect and wipe data / Cancel



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.

User manual

SAS936RHB-7-OT