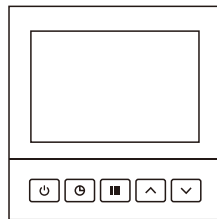


SAS920WHL-7W-WIFI(TY)

INSTRUCTION

SAS920WHL-7W-WIFI(TY)

INSTRUCTION



SPECIFICATION

Power source 100-240VAC 50/60Hz
Maximum load electric current.....250VAC 3 (2) A
Room temperature setting range.....5°C to 35°C
Accuracy..... ±0.5°C
Dimensions.....88mm X 88mm X13mm

FEATURES

- * Large LCD display with backlight
- * Permanent user setting retention during power loss
- * Can control valve and boiler at the same time .
- * Optional programming Period: 7 individual day programming to select economic or comfort mode.
(Every half hour as a period of time) /cancel the programming function.
- * Display temperature recalibrates
- * Remote control by mobile phone.
- * Works with amazon Alexa, Google assistant.

IMPORTANT SAFETY INFORMATION

- * Always turn off power at the main power source by unscrewing fuse or switching circuit breaker to the off position before installing, removing, cleaning, or servicing this thermostat.
- * Read all of the information in this manual before installing this thermostat.
- * Only a professional contractor should install this thermostat.
- * All wiring must conform to local and national building and electrical codes and ordinances.
- * If system is not operating properly, check wiring and replace fuse if necessary.
- * Use this thermostat only as described in this manual.

KEYBOARD,DISPLAYAND SWITCHDESCRIPTION

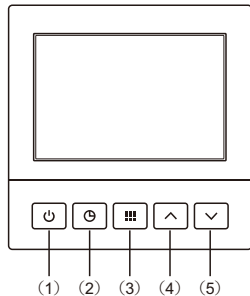


Figure 1

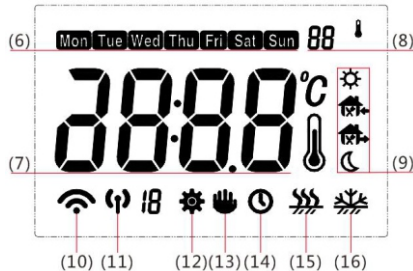


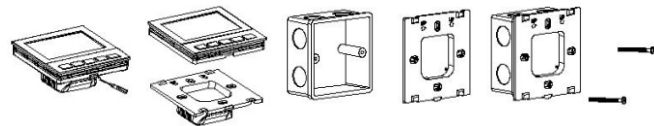
Figure 2

- (1)  Power/OK button : Shortly press to turn on/off the thermostat.
- (2)  Time button: When thermostat turn on press time button shortly to set time.
- (3)  Menu button: To set another implicit parameter, long press implicit parameter to restore factory setting; when thermostat turn on, at programmable mode, long press the button to set program, at programmable mode press shortly to set another program, long press program reset parameter.
- (4)  Raise temperature setting
- (5)  Lower temperature setting
- (6) Weeks show mark
- (7) Temperature shows mark
- (8) Shows implicit parameter setting
- (9) Shows current programming period

- (10)  Shows WIFI in remote mode
- (11)  Shows WIFI in hot mode
- (12)  implicit parameter setting mark
- (13)  Shows when thermostat is permanent hold mode
- (14)  Shows when thermostat is in programmable operation mode
- (15)  Shows when thermostat start heating output
- (16)  Shows when thermostat is in antifreezing mode

INSTALL THE THERMOSTAT

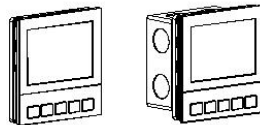
ATTACH THERMOSTAT BASE TO WALL



① Open the panel

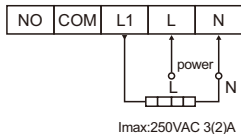
② Install the base

③ Mounting screws



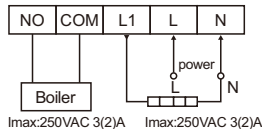
④ Install the panel

WIRING DIAGRAM



Power: 100-240VAC 50/60Hz
Imax: 3A

connect to actuator



Power: 100-240VAC 50/60Hz
Imax: 3A

connect to actuator and boiler

OPERATION

1. Configuration Menu

The configuration menu allows you to set certain thermostat operating characteristics to your system or personal requirements. When thermostat at off mode, Hold button  for 5 seconds to enter the configuration menu. The display will show the first item in the configuration menu. Press  button to shift to the next menu item. Use  or  to select. When press  will exit menu setting and back thermostat off mode. To exit the menu, press  button. The thermostat will exit the configuration menu If no action within 20 seconds.

Restore factory default setting: In the configuration menu, push  button for 3 seconds. Display will show "dEF" blinking 3 times and return to Menu item 1 indicates all the configuration setting has reverted to factory default setting. The configuration menu chart summarizes the configuration options. An explanation of each option is given below:

Item	Press buttons	Displayed (Factory default)	Press ▲ or ▼ to select	Descriptions
1	 3 sec.	EL (0)	-6~+6	Select temperature display adjustment higher or lower
2		RM (35.0°)	20°C ~ 50°C	Select maximum room setting temperature
3		RL (05.0°)	5°C ~ 20°C	Select minimum room setting temperature
4		bl (2)	1/2/3	Backlight mode 1.Backlight is not bright 2.When press button, backlight is bright for 10 seconds 3.Backlight always bright
5		EH (10)	05/10/15/20/25/30 /35/40/45/50	Start heating conditions: when Setting temperature < Room temperature +EH Stop heating output, when Setting temperature ≥ Room temperature -EH parameters, then start heating

6		PS1 (0)	0 / 7	Program option 7: 7 days separately (Refer to table 1 and table 2) 0: Non programmable
7		ES (OFF)	On / OFF	Intelligent Recovery Option: pre-heating according to the programming of heating time of previous 5 days. OFF : Without intelligent function On: Activate intelligent function
8		AN(OFF)	On / OFF	Anti-freezing Option On: Active anti-freezing function OFF : Close anti-freezing function
9		FA (NC)	NO / NC	Select the valve output mode: NO: Cooperate with the normally open type drive is used; NC: Cooperate with normally closed type drive is used
10		PS2 (4)	4/6	Programming period in one day option 6-6 events; 4-4 events

1) Select temperature recalibrates adjustment 6 LO to 6 HI

You can adjust the room temperature display up to 6 higher or lower. Your thermostat was accurately calibrated at the factory but you have the option to change the display temperature to match your previous thermostat. The current or adjusted room temperature will be displayed on the right side of the display. The default setting is 0.

2) Select maximum setting temperature limitation

For room sensor control mode, This feature provides a maximum set point temperature for room setting. The default setting is 35°C, It can be changed between 20°C(68°F) to 50°C.

3) Select minimum setting temperature limitation

For room sensor control mode. This feature provides a minimum set point temperature for room setting. The default setting is 5°C, It can be changed between 5°C to 20°C.

4) Select display backlight mode

The display backlight improves display contrast in low lighting conditions. Factory default is 2.

Select 1 backlight is not bright .

Select 2 When touch any button ,the backlight will bright for 10 seconds

Select 3 Backlight is always bright.

5) Select control precision

When Setting temperature < Room temperature $+1^{\circ}\text{C}$, Stop heating output

When Setting temperature $\geq$ Room temperature -1°C , parameters, start heating

6) Select Programme option

7: 7 days separately (Referto table 1 and table 2);

0: Nonprogrammable

7) Intelligent Recovery Option

Pre-heating according to the programming of heating time of previous 5 days.

OFF: Without intelligent function

On: Activate intelligent function

8) Anti-freezing Option

On: Active anti-freezing function

OFF: Close anti-freezing function

9) Select the valve output mode

NO: Cooperate with the normally open type drive is used

NC: Cooperate with normally closed type drive is used

10) Select Programming period in one day

6-6 events; 4-4 events

2. Manual Operation

1) Set current day and time

- Turn on the thermostat , press  button to enter the time setting.
- Press  button again, The display will only show minutes flashing.
- Press and hold either  or  until you reach the correct minutes.
- Press  button once again. The display will show the hour flashing.
- Press and hold either  or  until you reach the correct hour.
- Press  button once again. The display will show the day of the week flashing.
Press  or  until you reach the correct day of the week. Press button  once. The display will show the correct day of the week and the time. Press button  once again or any keys are not pressed within 20 seconds, the thermostat will revert to program operation.

2) Operation mode

a Running schedule mode

Thermostat running according to the preset schedule. The factory default is Non programmable.

b Override temperature temporarily

Thermostat keep the temperature as setting temperature temporarily,when operate next program period will recoverve program running schedule mode .

Press  or  in running schedule mode to immediately adjust the temperature.

The new temperature will be maintained until the next programmed time period begin.

Shortly press button  to cancel the temporarily setting and return to running schedule mode.

c Override temperature permanently

Thermostat will keep room temperature as setting temperature permanently.

In running schedule mode, shortly press button  , thermostat will get into permanent hold mode. Press  or  to adjust temperature.

The new temperature will be maintained 24h a day until manually change it.

3) Program setting

When thermostat on, press  longly to set program. If the program have been set OK before thermostat leave factory, press  , if without any operation for 10s, thermostat will exit program setting automatic.

Press  shortly to set weeks,time ,temperature. Press  or  to select, press  to save and exit.

Excel 1 (7days six period factory setting)

Heating mode		Morning 	Outside 	Afternoon 	Outside 	Back 	Night 
Monday-Sunday	Time	6:00	8:00	12:00	14:00	18:00	22:00
	Temperature	21°C	16.5°C	21°C	16.5°C	21°C	16.5°C

Excel 2 (7days four period program factory setting)

Heating mode		Morning 	Outside 	Back 	Night 
Monday-Sunday	Time	6:00	8:00	18:00	22:00
	Temperature	21°C	16.5°C	21°C	16.5°C

Tips :The program can be modified individual.

Thermostat communication model introduce Thermostat with two wifi connection model :

Wifi hot model

When thermostat show  , it means thermostat at wifi hot model ,mobile phone can connect with thermostat directly.

Wifi remote control mode

When thermostat show  mark ,it means thermostat at remote control mode, mobile phone can contact with thermostat though internet to control thermostat.

Thermostat can transfer two mode Thermostat at wifi hot model as factory setting .

Wifi hot model: At any mode press thermostat power button  longly to transfer Wifi hot mode. When transfer successfully ,thermostat will show mark 

Wifi remote control mode: Use phone APP to add thermostat, when add successfully, thermostat will transfer Wifi remote control mode. If transfer successfully, thermostat will show  mark, if mobile phone connect with thermostat failed or are connecting the mark  will flash.

Tips :Thermostat can connect at most two piece mobile phone directly at same time .And can remote control by more mobile phone at same time .But it can't operate control directly and remote control at same time

Err.3 flashing in the display: Room sensor has short circuited. Thermostat shuts down all heating output.

Err.4 flashing in the display: Room sensor is broken. Thermostat shuts down all heating output.

CUSTOMER ASSISTANCE

After reading this guide, if you have any question about the operation of your thermostat, please contact your installer or service provider.

LINK APP

Download

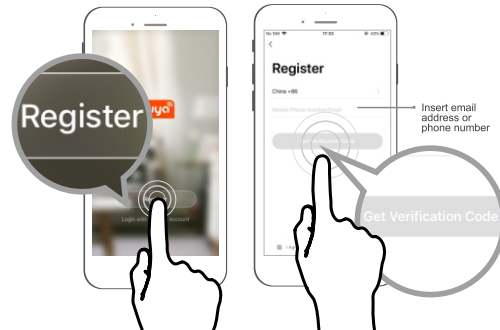


1 Click App store(click Android application market)



2 Search TuyaSmart and download .

Register



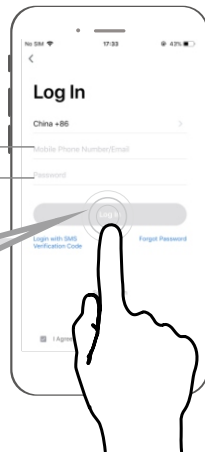
Login

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

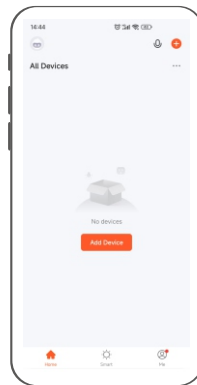
Registered mailbox/phone number

Insert your password

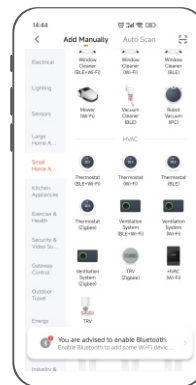
Log In



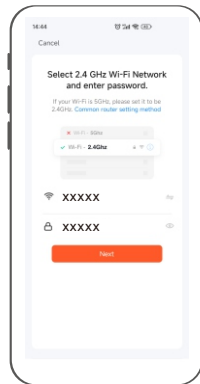
Add thermostat



- 1 Click "+" on the top of right, or click "Add Device"



- 2 Click the list bar "Small Home AP" and select "Thermostat(WI-Fi)" in the right device list.



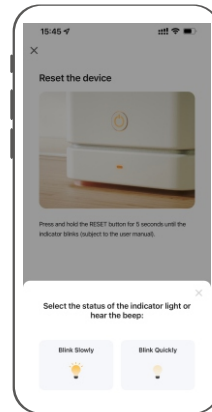
- ③ Confirm wifi account and enter wifi password, then click "Next"



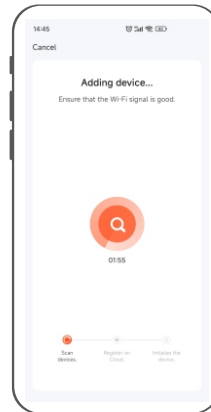
- ④ Click "Confirm the indicator is blinking rapidly"

Distribution network in EZ mode:

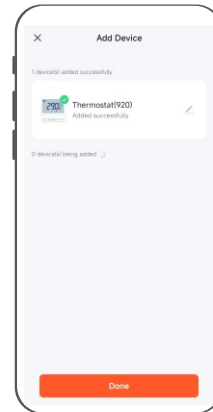
In power on, press "⏻" button for 5 seconds, and "📶" flash, enter the EZ mode to distribution the network.



- ⑤ Select "Blink Quickly"



- ⑥ Wait for few seconds.



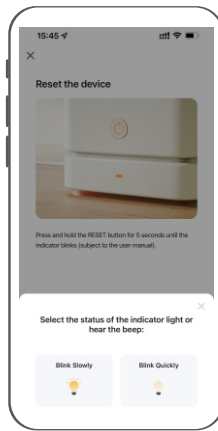
- ⑦ Click "Done"

Distribution network in AP mode:

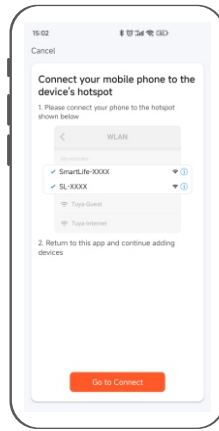
Press and hold “” button to switch “” mode. And “” flash, enter the AP mode to distribute the network.

Tips:

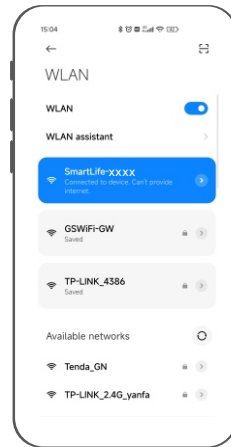
If you select “Blink Slowly” in step ⑤, it will enter Distribution network in AP mode.



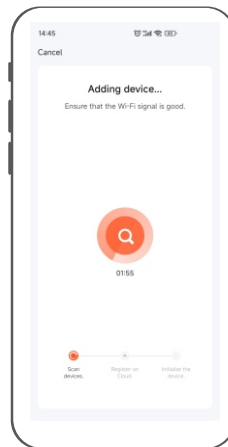
⑤ Select “Blink Slowly”



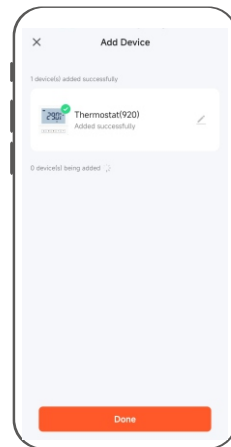
⑥ Click “Go to Connect”



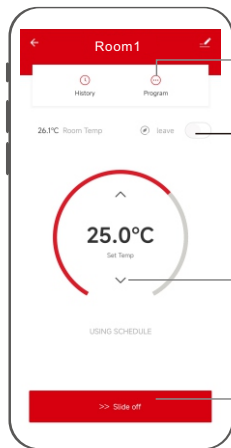
⑦ Select “SmartLife-xxxx” and go back “Tuya smart”APP



⑧ Wait for few seconds.



⑨ Click “Done”



Click the "program" to enter the programming interface for selecting the period of time of 7-day programming.



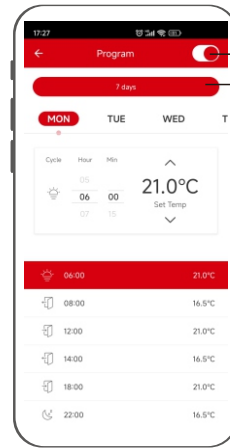
Temporary leaving mode:

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.

Press "▲", "▼" to adjust the temperature.

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

Programming Setting



Slide to close programming

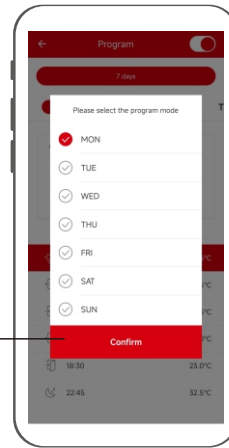
Click "7-day" to select the date

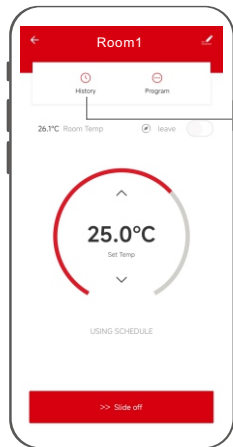
① Click the "program" to enter the programming interface, then click "7-day" button

② Click the date to be edited and confirm it.

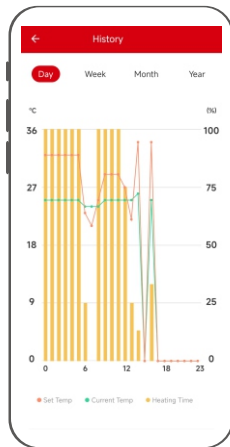
③ Press "▲" "▼" to set temperature in the different periods of time

Click "Confirm" after select the date

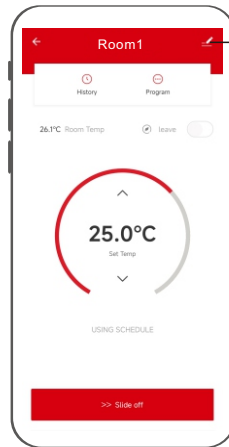




Click "History" for checking the historical temperature records

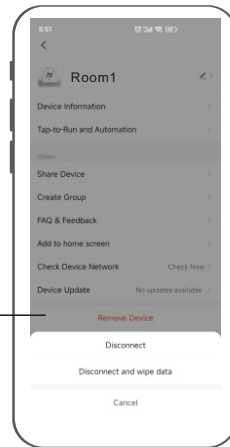


Exit network/remove devices



Click the icon to check the device information

Click "remove device" to select Disconnect / Disconnect and wipe data / Cancel



Voice command:

After waking up the speaker, you can say:

Amazon Alexa

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

Google Assistant

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

Tips:

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