

SAS920XRCH-7W-WIFI(TY)

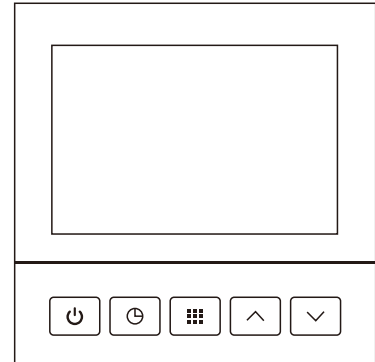
INSTRUCTION

SPECIFICATION

Power source 100-240VAC 50/60Hz
Maximum load electric current.....250VAC 3(2)A
Room temperature setting range.....5℃ to 35℃
Accuracy..... ±0.5℃
Dimensions.....86mm X 86mm 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 SWITCH DESCRIPTION

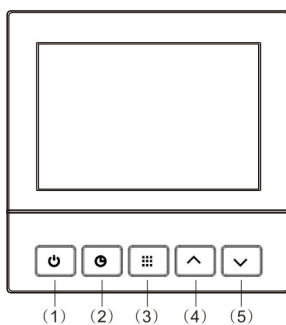


Figure 1

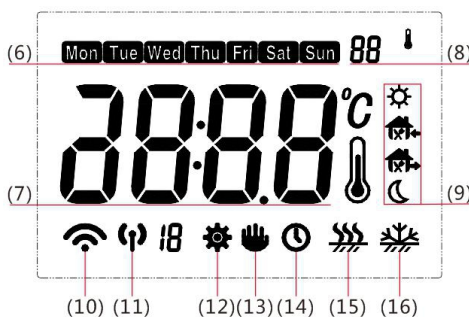
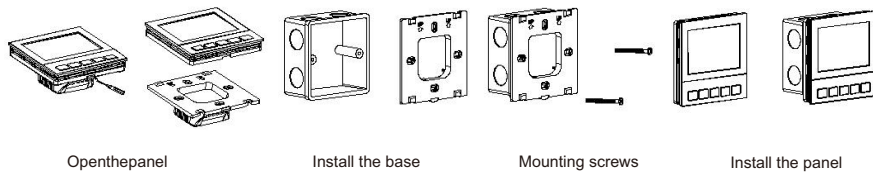


Figure 2

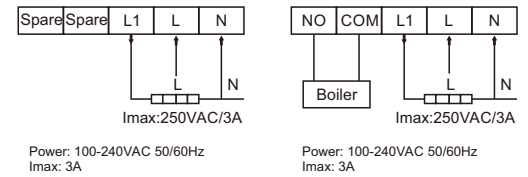
- (1) Power/OK button : Shortly press to turn on/off the thermostat.
- (2) Time button: When thermostat turn on press time button shortly to set time .
- (3) Menu button: To set another implicit parameter, press implicit parameter longly to restore factory setting; when thermostat turn on, at programmable mode press the button longly to set program, at programmable mode press shortly to set another program ,press program longly 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) Flashes to indicate that it is heating up, is always on to indicate the heating mode
- (16) Flashes to indicate that it is cooling down, is always on to indicate the cooling mode
- (17) Always on at the same time, indicating antifreeze mode

INSTALL THE THERMOSTAT

ATTACH THERMOSTAT BASE TO WALL



WIRING DIAGRAM



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:

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 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

5) Select control precision

When Setting temperature < Room temperature Stop heating output
When Setting temperature ≥ Room temperature Parameters, start heating

6) Intelligent Recovery Option

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

: Without intelligent function On: Activate intelligent function

7) Anti-freezing Option

: Active anti-freezing function : Close anti-freezing function

8) Select the valve output mode

: Cooperate with the normally open type drive is used;
: Cooperate with normally closed type drive is used

9) Select Programming period in one day

6-6 events; 4-4 events;

10) Mode select

1: Heating mode (only heating mode) 2: Cooling mode (only cooling mode)
3: Heating mode/Cooling mode (When thermostat at off mode, long press to heating mode/ cooling mode switch)

Note: Do not switch modes frequently. The switching interval should be greater than 30S.

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 programmable.

b Override temperature temporarily

Thermostat keep the temperature as setting temperature temporarily,when operate next program period will recover 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.

Item	Press buttons	Displayed (factory default)	Press ▲ or ▼ to select	Descriptions
1	3 sec.	(0)	-6 --- +6	Select temperature display adjustment higher or lower
2		(35.0°)	20°C—50°C	Select maximum room setting temperature
3		(05.0°)	5°C—20°C	Select minimum room setting temperature
4		(2)	1/2	Backlight mode 1.Backlight is not bright 2.When press button ,backlight is bright for 10 seconds
5		(10)	05/10/15/20/25/30 /35/40/45/50	Start heating conditions: when Setting temperature < Room temperature Stop heating output, when Setting temperature ≥ Room temperature parameters, then start heating
6		(OFF)	/ OFF	Intelligent Recovery Option: pre-heating according to the programming of heating time of previous 5 days. OFF : Without intelligent function : Activate intelligent function
7		(0n)	/ OFF	Anti-freezing Option : Active anti-freezing function OFF: Close anti-freezing function
8		(NC)	/ NC	Select the valve output mode: : Cooperate with the normally open type drive is used; : Cooperate with normally closed type drive is used
9		(6)	4 / 6	Programming period in one day option 6-6 events; 4-4 events
10		(3)	1/2/3	1: Heating mode (only heating mode) 2: Cooling mode (only cooling mode) 3: Heating mode/Cooling mode (heating mode/ cooling mode switchable)

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.

4) Mode setting

When configuration 545 is set to (3), in the dual mode system, press" "and hold to switch between cooling mode/heating mode in a cycle.

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 1 (7days six period factory setting)

Cooling mode		Morning	Outside	Afternoon	Outside	Back	Night
Monday-Sunday	Time	6:00	8:00	12:00	14:00	18:00	22:00
	Temperature	24°C	28°C	24°C	28°C	24°C	28°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

Excel 2 (7days four period program factory setting)

Cooling mode		Morning	Outside	Back	Night
Monday-Sunday	Time	6:00	8:00	18:00	22:00
	Temperature	24°C	28°C	24°C	28°C

Tips :The program can be modified individual.

Thermostat communication mode introduce

Flashing indicates preparing to connect network.

Flashing indicates the WIFI in connection, static indicates successful connection.

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.

Tips :One account can be logged in on multiple phones.

LINK APP

Registration and Login:

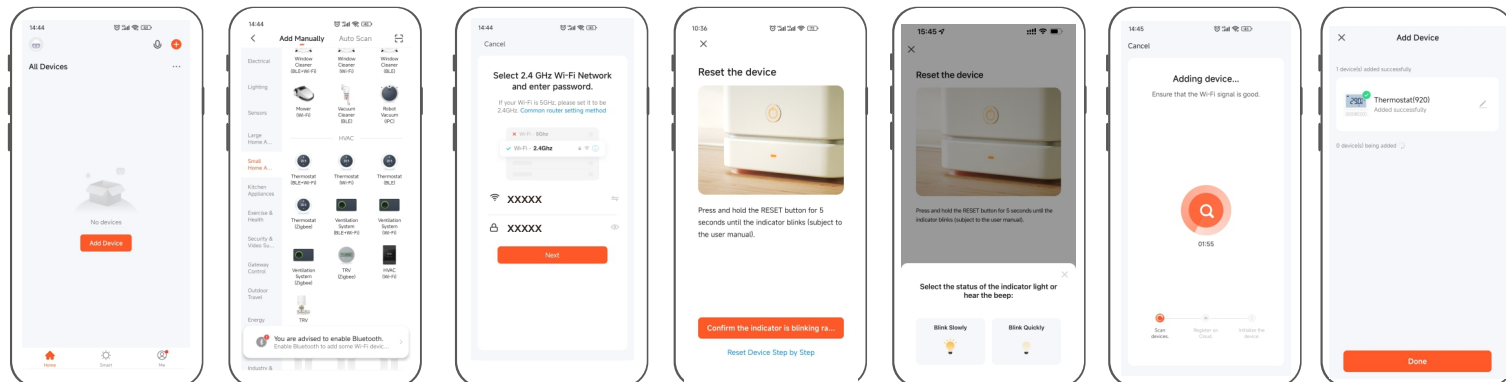
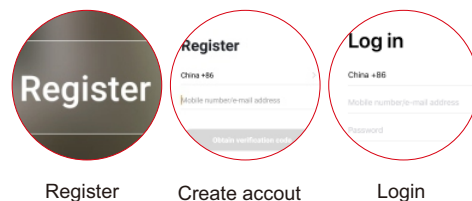
Click the "Register" to create account.

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

Add thermostat

Connect network in EZ mode:

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



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

4 Click"Confirm the indicator is blinking rapidly"

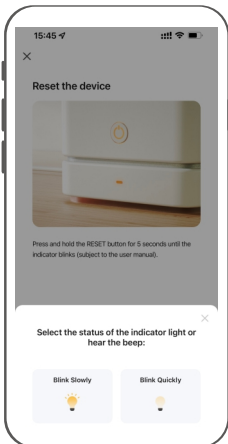
5 Select "BlinkQuickly"

6 Wait for few seconds.

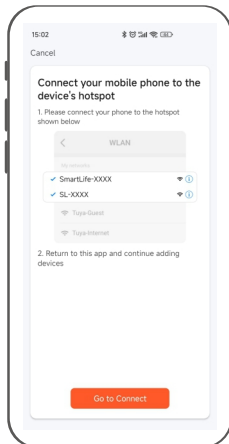
7 Click "Done"

Connect network in AP mode:

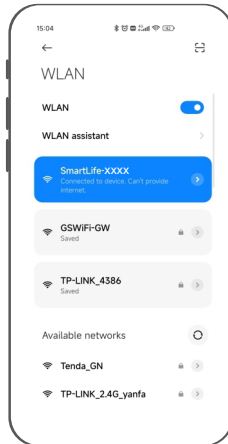
Tips: If you select "Blink Slowly" in step 5 will enter Distribution network in AP mode.



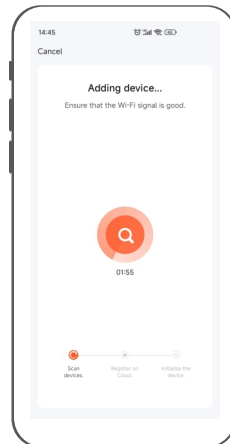
5 Select "BlinkSlowly"



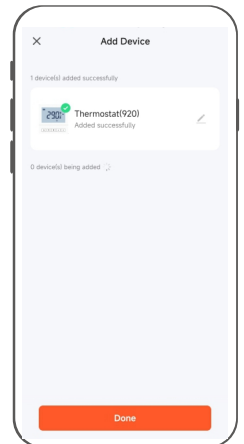
6 Click "Go to Connect"



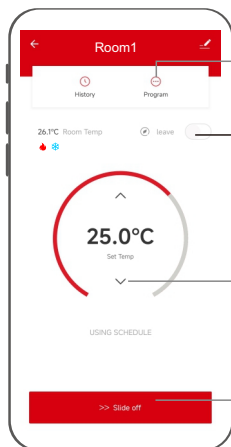
7 Select "SmartLife-xxxx" and go back "Tuya smart" APP



8 Wait for few seconds.



9 Click "Done"



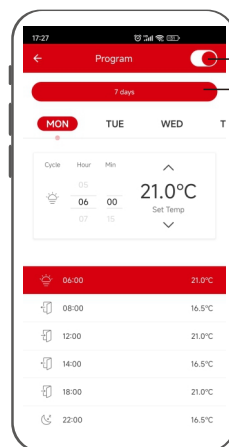
Click the "program" to enter the programming interface for selecting the period of time of 7-day programming.



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 (X) 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.

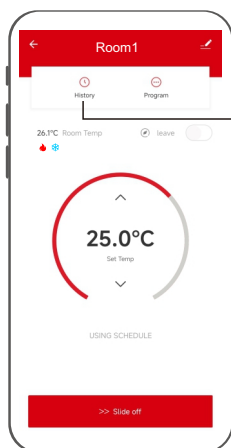
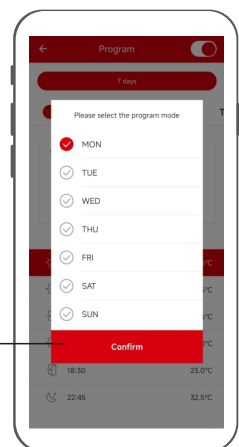
Slide the button to achieve "slide for power on" or "slide for power off"



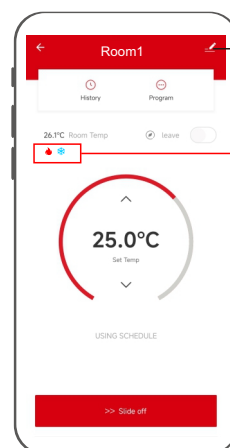
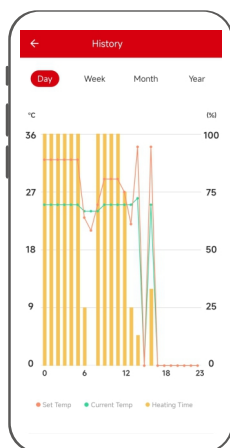
Slide to close programming
Click "7-day" to select the date

- 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



Click the icon to check the device information

Outputting:

Red: Heating up
Blue: Cooling down

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.