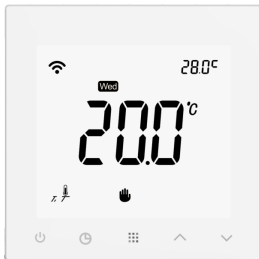


Operation Instruction

SAS922WHL-7W-S-WIFI(TY)



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Thermostat for floor heating

SAS922WHL-7W-S-WIFI(TY) is a programmable controller use to control water under floor heating system.

SPECIFICATION:

- Power source 100-240VAC 50/60Hz
- Maximum load electric current 3A/250VAC
- Room temperature setting range 5°C~35°C
- External sensor control range 5°C~70°C
- Accuracy 0.1°C
- Working environment temperature 0°C~50°C
- Storage temperature -10°C ~ 60°C
- Dimensions 86mm *86mm*13mm
- External sensor NTC100K or NTC10K (optional)

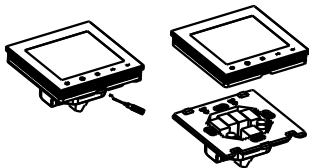
FEATURE:

- 4 inch large screen display
- Touch button
- Control water valve, electric heat actuator, water pump, wall hanging furnace
- Permanent user setting retention during power loss
- Display temperature recalibrates
- Optional type of control temperature mode include room mode. floor mode or room & floor mode
- Optional programming Period: 7 individual day programming

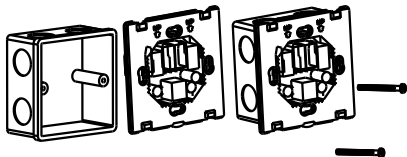
IMPORTANT SAFETY INFORMATION:

- Read all of the information in this manual before installing this thermostat.
- 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.
- Only a professional contractor should install this thermostat.
- All wiring must conform to local and national building and electrical codes and ordinances.
- Use this thermostat only as described in this manual.

INSTALLATION

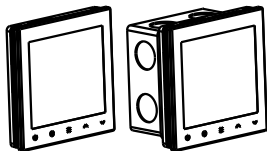


Open the panel



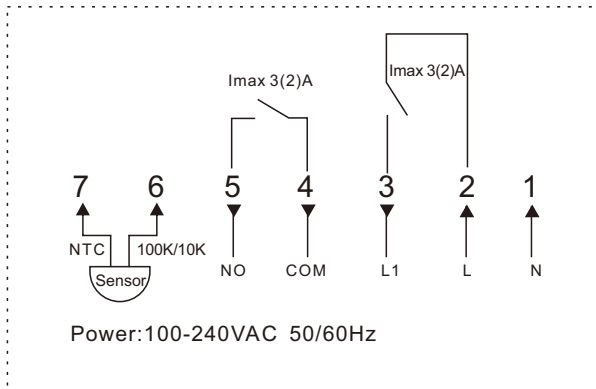
Install the base

Mounting screws

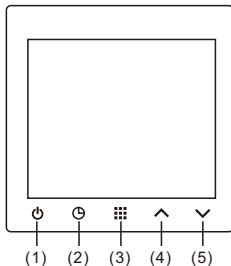


Install the panel

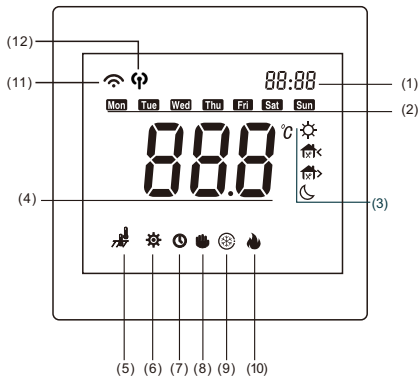
WIRING DIAGRAM



DISPLAY DESCRIPTION



- (1)  Power/Confirm button
- (2)  Time button
- (3)  Menu button
- (4)  Raise temperature setting
- (5)  Lower temperature setting



- (1) Setting temperature or time display
- (2) Week display
- (3) Programmable mode display
- (4) Room temperature display
- (5) Sensor mode display
- (6) Configuration setting
- (7) Program status
- (8) Manual status
- (9) Anti-freezing
- (10) Heating output
- (11) Wifi mode
- (12) AP mode

Configuration setting

The configuration allow user to set to different parameter based on personal requirement. Switch thermostat to OFF status, hold button "⏏" for 5 seconds enter setting page. Short press "⏏" to enter next item. Use "▲" or "▼" to select. Press "⏻" save and back to OFF mode. Without operation over 20s will exit automatically.

Under configuration menu, long press "⏏" over 3 seconds and display "DEF" to revert to factory default setting.

Item	Press buttons	Displayed (factory default)	Press ▲ or ▼ to select	Descriptions
1	⏏	CL (0.0)	-6.0 --- +6.0	Temperature calibration
2	⏏	RH (35°C)	20°C—70°C	Select maximum setting temperature range
3	⏏	RL (5°C)	5°C — 20°C	Select minimum setting temperature range
4	⏏	FH (40°C)	20°C—70°C	Floor temperature maximum limitation
5	⏏	FL (5°C)	5°C — 20°C	Floor temperature minimum limitation
6	⏏	SEN (In)	AL / In / OU	Sensor option AL: The thermostat will control based on actual room temperature and compare the floor temperature limitation. If floor temperature higher than limitation setting by parameter 4, it will stop working. If floor sensor lower than setting by parameter 5, it will mandatory heating In: Room temperature control OU: External sensor temperature control

7		<i>bl</i> (2)	2/3	Backlight option 1: When press button, backlight is bright for 30 seconds 2: When press button, backlight is bright for 20% after 30 seconds 3: Backlight always bright.
8		<i>PSI</i> (0)	7/0	Program option 7: 7 days separately 0: Non program
9		<i>ES</i> (OF)	On/OF	Optimum start option OF: Without optimum start function On: Activate Optimum start function
10		<i>Rn</i> (OF)	On/OF	Anti-freezing option On: Active anti-freezing function OF: Deactivate anti-freezing function
11		<i>Ntc</i> (100)	100/10	Sensor selection 100: 100K Sensor 10: 10K Sensor
12		<i>ts</i> (On)	On/OF	On: Time run based on network time OF: Time run based on user setting

Time setting

When thermostat is in ON status, press "🕒" button for 5 seconds to set time. Press "🕒" again switch to minutes, hours, years, months, day. Press "⬆" or "⬇" to adjust setting. Under thermostat is in ON state, short press "🕒" check current time. Press again switch to setting temperature display.

Operation mode

Manual mode(The factory default is non-program status)

Enter configuration menu set program to non-program mode, the screen will display "👤" mean thermostat is in manual mode.

Temporary mode

Under program mode, user change temperature will run into temporary mode and display "🕒👤". Next program will turn to program automatically.

Programmable mode

Thermostat run under program setting and display "🕒"

Program setting

When thermostat is in ON status, long press "⏏" to set program. Short press "⏏" to select week, time, temperature setting, press "⬆" or "⬇" to change setting. Press "🔌" to save and exit. If without any operation for 10s, it will exit program setting.

Excel 1 (7 days 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

Alarm instructions

Err.display	Err. condition	Result
Er1	Internal sensor is broken	Stop all heating output.
Er2	External sensor is broken or not installed	Stop all heating output.

Link APP (Login)

Download:

Click App store or Android application market to download "Tuya Smart" app.

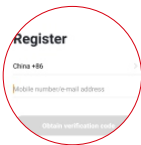


Registration and Login:

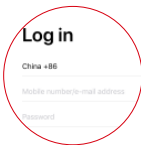
Click the "Register" to create account.
Enter your account password to log in



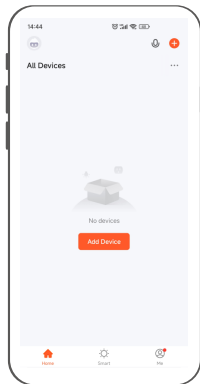
Register



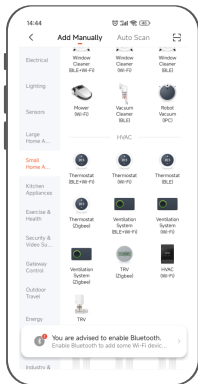
Create account



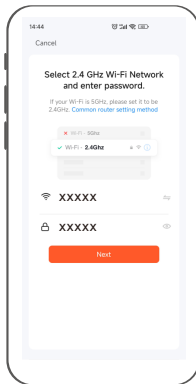
Login



- 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.



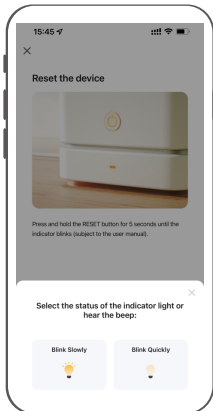
- 3 Confirm wifi account and enter wifi password, then click “Next”



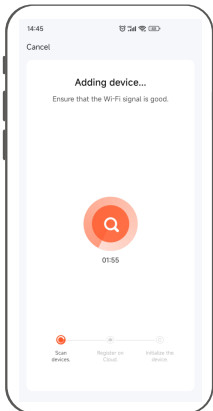
- 4 Click “Confirm the indicator is blinking rapidly”

Distribution network in EZ mode:

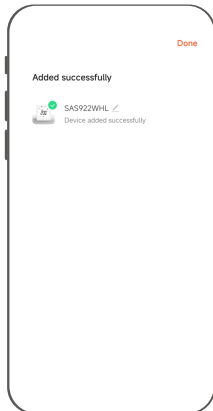
In power on, press “” button for 5 seconds ,and “” flash,enter the EZ mode to distribution the network.



5 Select “Blink Quickly”



6 Wait for few seconds.



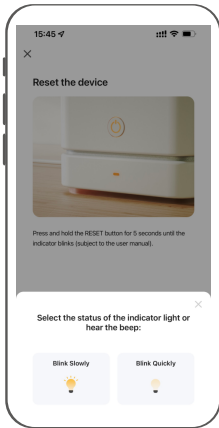
7 Click “Done”

Distribution network in AP mode:

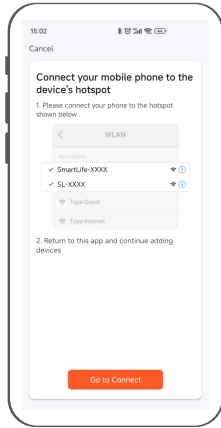
Press and hold “” button to switch “” mode. And “” flash, enter the AP mode to distribution the network.

Tips:

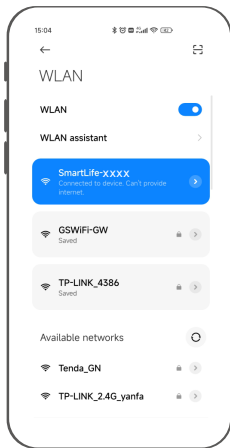
If you select “Blink Slowly” in step ⑤, it will enter Distribution network in AP mode.



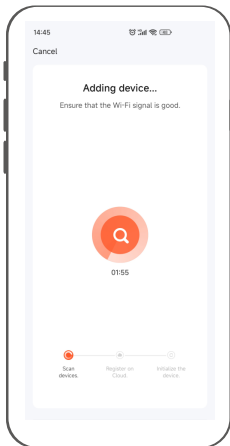
⑤ Select “Blink Slowly”



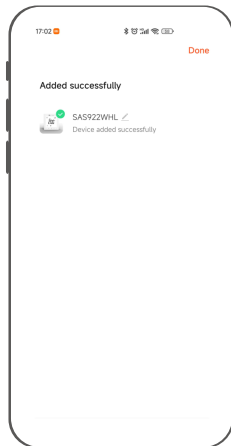
⑥ Click “Go to Connect”



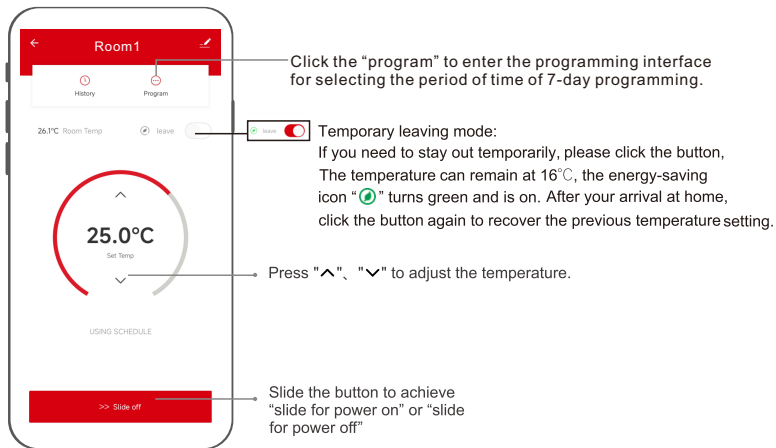
- 7 Select "SmartLife-xxxx" and go back "Tuya smart"APP



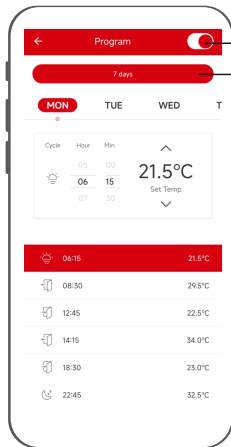
- 8 Wait for few seconds.



- 9 Click "Done"



Programming Setting

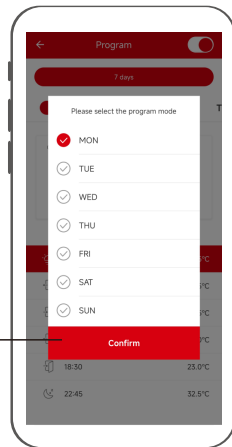


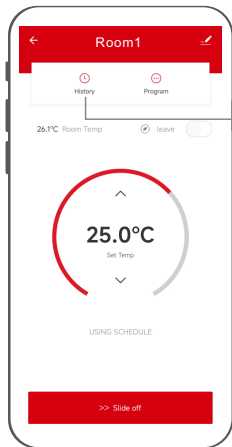
Slide to close programming

Click "7-day" to select the date

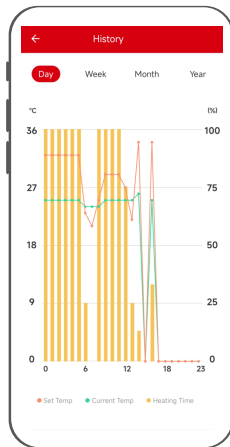
- 1 Click the "program" to enter the programming interface, then click "7-day" button
- 2 Click the date to be edited and confirm it .
- 3 Press "∧" "∨" to set temperature in the different periods of time

Click "Confirm" after select the date

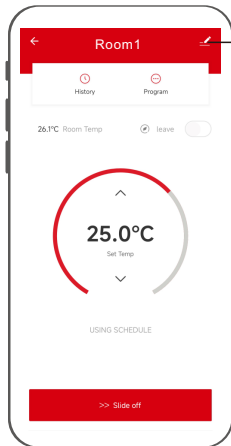




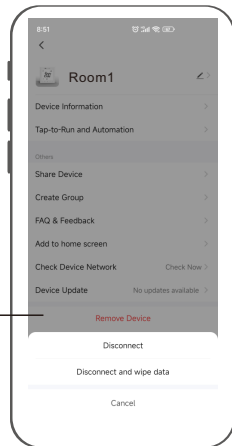
Click "History" for checking the historical temperature records



Exit network/remove devices



Click the icon to see 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

- * 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.

OPERATING INSTRUCTION

SAS922WHL-7W-S-WIFI(TY)