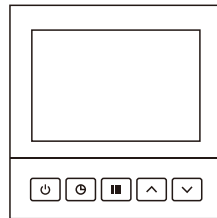


SAS920FHL-7-WIFI(TY)

INSTRUCTION

SAS920FHL-7-WIFI(TY)

INSTRUCTION



SAS920FHL-7-WIFI(TY) systems thermostat for floor heating

SPECIFICATION

Power source.....	100-240VAC 50/60Hz
Maximum load electric current.....	16A/250VAC
Room temperature setting range.....	5°C to 35°C
Floor temperature setting range.....	5°C to 70°C
Accuracy.....	0.1°C
Working environment temperature.....	0°C to 50°C
The storage temperature.....	-10°C to 60°C
Dimensions.....	86mm*86mm*13mm

FEATURE

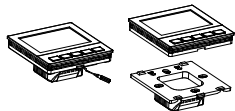
- * 3.1 inch large screen display
- * Can control 16A high power heating facilities
- * Permanent user setting retention during power loss
- * Display temperature recalibrates
- * Optional types of control for different heating application including room thermostat; floor thermostat or room thermostat with floor limitation
- * Optional programming Period: 7 individual day programming
- * Remote control by mobile phone
- * WorkswithAmazonAlexa,Googleassistant

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.

INSTALL THE THERMOSTAT

Attach thermostat base to the wall



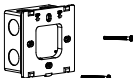
Open the panel



Install the base

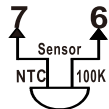


Mounting screws

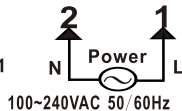
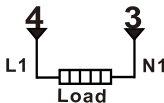


Install the panel

Elementary diagram

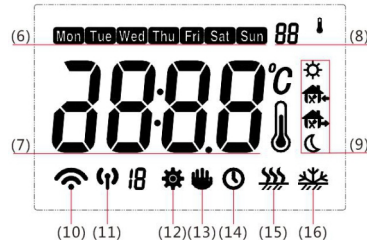
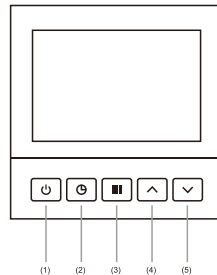


5 Empty



100~240VAC 50/60Hz

KEYBOARD, DISPLAY AND SWITCH DESCRIPTION



- (1) Power/OK button : Press shortly to turn on/off the thermostat.
- (2) Time button: When thermostat turn on press time button shortly to set time .
Under the condition of short hours according to the time set in order to enter the minutes, week days set by +/-

- (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 value
- (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
- (13)+ (14) temporary mode
- (15)  Shows when thermostat start heating output
- (16)  Shows when thermostat is in antifreezing mode

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		CL (0.0)	-6.0 --- +6.0	Select temperature display adjustment higher or lower
2		RH (35℃)	20℃-70℃ 20℃-50℃(with wifi)	Select maximum room setting temperature
3		RL (5℃)	5℃-20℃	Select minimum room setting temperature
4		FH (40℃)	20℃-70℃ 20℃-60℃(with wifi)	Select maximum floor setting temperature
5		FL (5℃)	5℃-20℃	Select minimum floor setting temperature
6		SEN (RL)	RL/In/OU	Program option RL: Room temperature control is given priority to the floor temperature, controls the function of the protection (electric heating is adopted); In: only the room temperature control (water heating is adopted); OU: only the floor temperature control.

7		bl (2)	1/2/3	Backlight mode 1.Backlight is not bright 2.When press button, backlight is bright for 30 seconds 3.Backlight always bright.
8		PS1 (0)	7/0	Program option 7: 7 days separately(Refer to table 1 and table 2) 0: Non program
9		ES (OF)	On/OFF	Intelligent Recovery Option: OFF : Without intelligent function On: Activate intelligent function
10		An (OF)	On/OFF	On: Active anti-freezing function OFF: Close anti-freezing function drive is used
11		PS2 (4)	4/6	Select separate time/temperature periods per day P4 indicate 4 period programming per day; P6 means 6 period
12		Ld (H) Ld (HH) (with WIFI)	L/H/HH	HH: the load flow rate is 12-16 (A) H: the load flow is 8-11(A) L: the load flow is 0-7(A)
13		Ntc (H)	H/L	Sensor selection H: 100K Sensor L: 10K Sensor

1. Manual Operation

1) Set current day and time

Thermostat On

- a) Turn on the thermostat press  button to enter the time setting.
- b) Press  button again, The display will only show minutes flashing
- c) Press and hold either  or  until you reach the correct minutes
- d) Press  button once again. The display will show the hour flashing.
- e) Press and hold either  or  until you reach the correct hour
- f) Press  button once again. The display will show the day of the week flashing.
- g) Press and hold either  or  until you reach the correct day of week

Press button  once again or any keys are not pressed within 10 seconds, the thermostat will revert to program operation

2) Operation mode

- a) **Running schedule mode** (The factory default is Non-programmable.)

Thermostat keep the temperature as setting temperature temporarily, when screen show 

- b) **manual mode**

Enter the implicit parameter setting state to set the programming mode 

Button to  exit the parameter settings and back to off condition

Reopen the screen will display  thermostat device to enter the manual mode,

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

3) Temporary hold mode

The thermostat will temporarily keep the room at the setting temperature and will resume the program operation mode when entering the next program.

Programming operation mode, press  or  shortly enter the temporary hold mode, the screen display.  

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

4) Program setting

The thermostat can select the program setting only on programming.

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

Enter the programming settings: press  into the set program, press  can select weeks, time, temperature, the screen flashes and show current selection position.

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

Excel1 (7days six period factory setting)

Heating mode		Morning 	Outside 	Afternoon 	Outside 	Back 	Night 
Monday-Friday	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
Err.3	Temperature sensor short circuit	Thermostat shuts down all heating output.
Err.4	Temperature sensor is broken	Thermostat shuts down all heating output.

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 model

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

Thermostat can transfer two model

Thermostat at wifi hot model as factory setting.

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

Wifi remote control model: Use phone APP to add thermostat, when add sucefully, thermostat will transfer Wifi remote control model. If transfer sucefully, thermostat will show 🌐 mark, if mobilephone if connect with thermostat fuiled 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.

LINK APP

Download:

Click App store or Android application market to download "TuyaSmart" and "amazon alexa " APP.

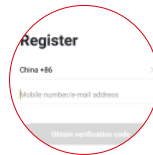


Registration and Login:

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



Register

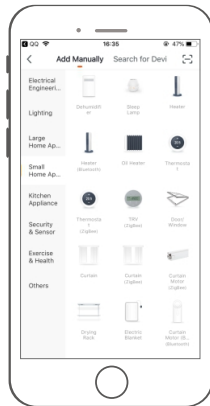


Create account



Login

Add thermostat

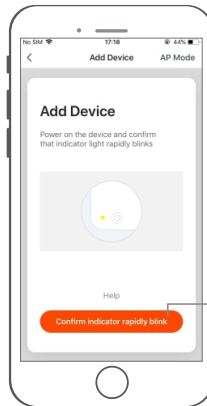


1 Click "+" on the top of right



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

Distribution network in WIFI mode:



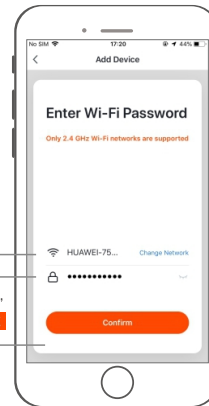
3 Click "confirm indicator rapidly blink"

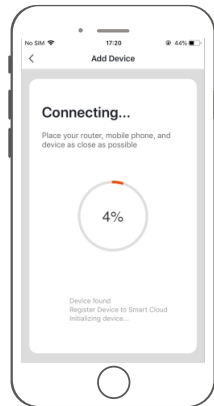
4 Confirm wifi account and enter wifi password, then click "Confirm"

Confirm WIFI account
Insert your pass word

Click "Confirm indicator rapid blink"
Confirm indicator rapidly blink

Click "Confirm"
Confirm

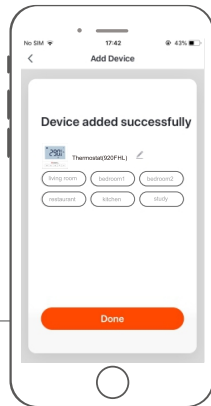




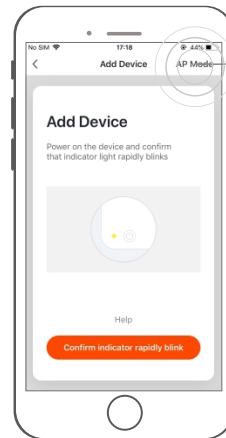
5 Enter automatic search and add devices and wait for a second

6 Device added successfully, click "Done".

Click "Done"



Distribution network in AP mode:

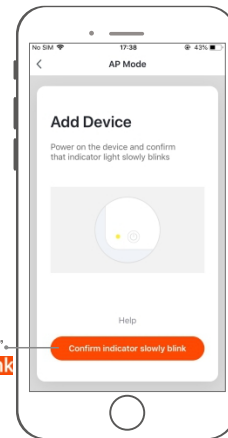


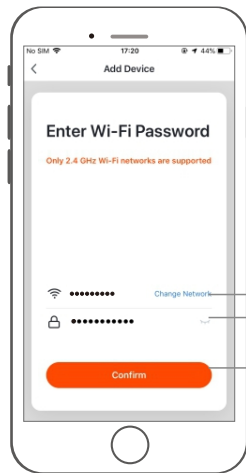
AP Mode Click "AP mode"

3 Click "AP mode" on the top of right

4 Click "Confirm indicator is slowly blink"

Click "Confirm indicator slowly blink"





⑤ Confirm wifi account and enter wifi password ,then click "Confirm"

⑥ Connect the phone to the hotspot ,click "Go to Connect"

Confirm WIFI account

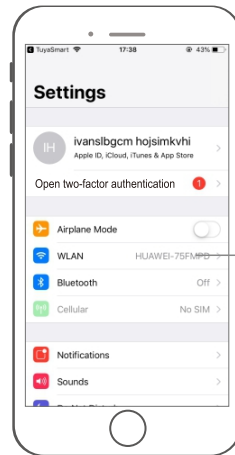
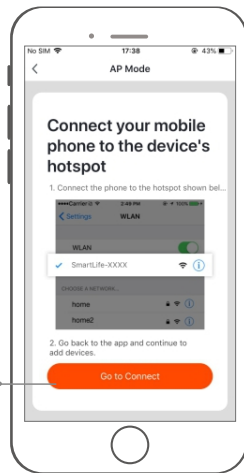
Insert your pass word

Click "Confirm"

Confirm

Click "Go to Connect"

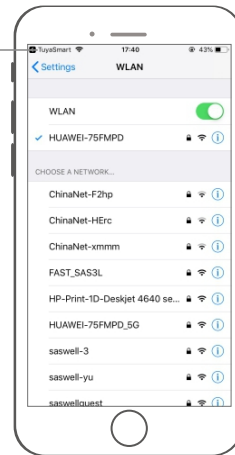
Go to Connect

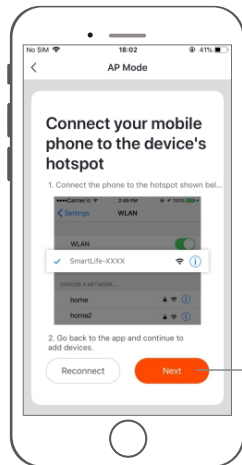


⑦ The interface switch to the phone "settings ", and then click "WLAN" for selecting the wifi

⑧ Click "TuyaSmart" on the top of left to go back to the app and continue to add devices.

Click "TuyaSmart" (to go back APP)





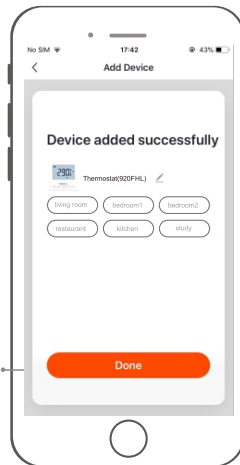
9 Click "Next" on the APP to continue add device

10 Enter automatic search and add devices and wait for a second

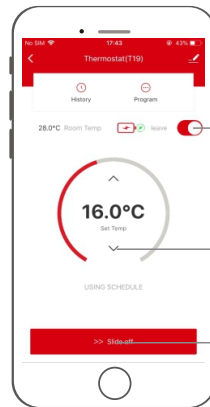
11 Device added successfully, click "Done".

Click "Next"
Next

Click "Done"
Done



APP Setting-Temperature setting



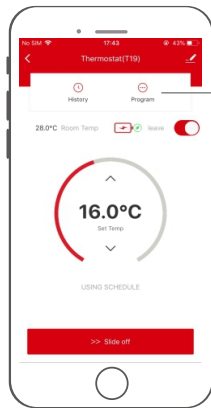
Temporary leaving mode:
If you need to stay out temporarily, please click the button, The temperature can remain at 16°C, the energy-saving icon "🟢" turns green and is on. After your arrival at home, click the button again to recover the previous temperature setting.

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

>> Slide off

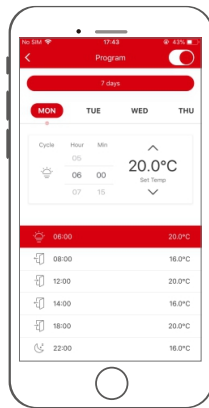
Slide the button to achieve "slide for power on" or "slide for power off"

APP Setting-Programming Setting

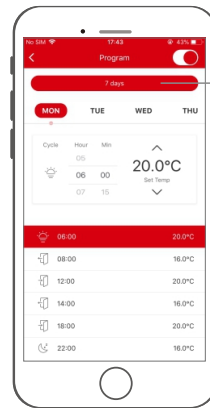


Click the "program" to enter the programming interface for selecting the period of time of 7-day programming, press " $\wedge$ " " $\vee$ " to set temperatures in the different periods of time.

(click the history for checking the historical temperature records)



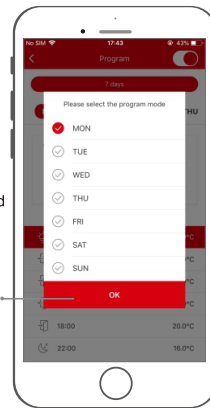
APP Setting-Multi-day Programming Setting



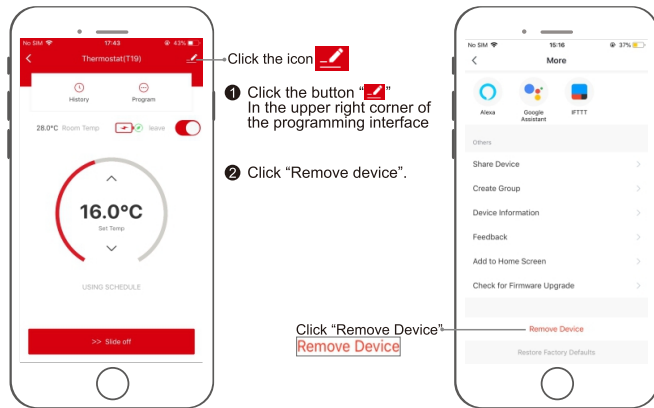
Click "7-days" to select the date **7 days**

- 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 " $\wedge$ " " $\vee$ " to set temperatures in the different periods of time

Click "OK" after select the date **OK**



Exit network /Remove devices



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.