

SAS922 WHL-7W-S Thermostat for Floor Heating

SAS922WHL-7W-S is a programmable thermostat designed for floor warming application or helping to limit floor temperature. This thermostat can be used for hot water radiant heating systems and electric heating cable system.

SPECIFICATION:

- Power source100-240VAC50/60Hz
 - Maximum load electric current3A/250VAC
 - Room temperature setting range5℃- 35℃
 - External sensor control range5℃-70℃ (not standard)
 - Accuracy0.1℃
 - Working environment temperature0℃- 50℃
 - The storage temperature-10℃- 60℃
 - Dimensions86mm X 86mm X 13mm
 - External sensor:NTC100K or NTC10K (optional)
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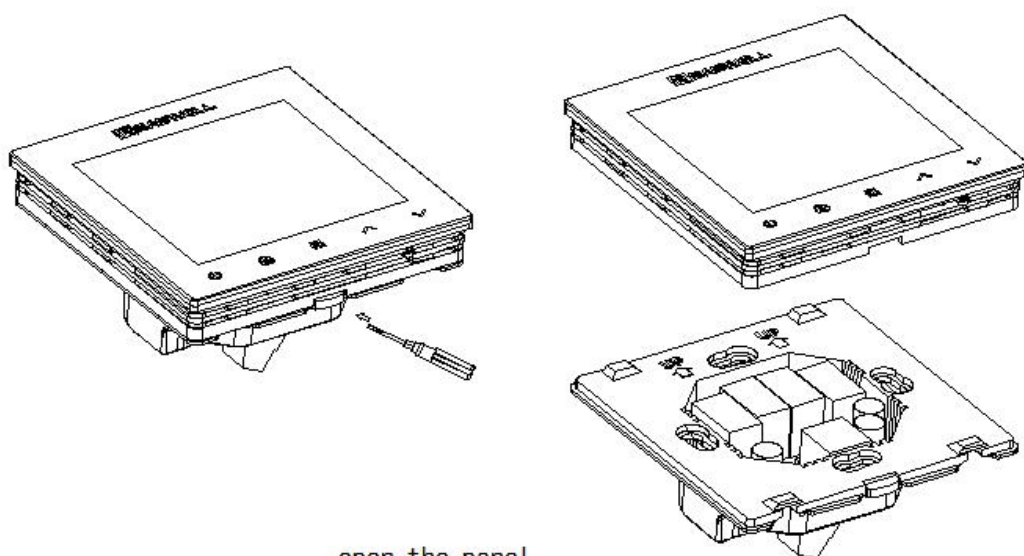
FEATURE:

- 4 inch large screen display
 - Control water valve, electric heat actuator, water pump, wall hanging furnace
 - 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
 - Touch button
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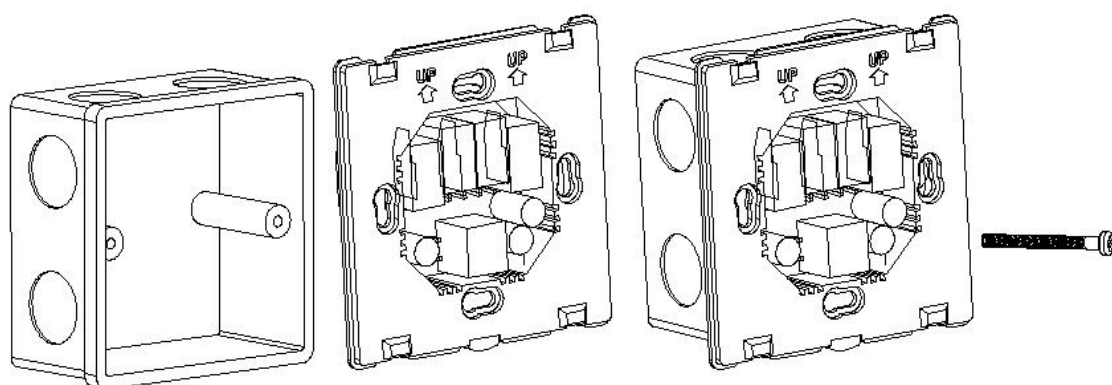
IMPORTANT SAFETY INFORMATION:

- 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:

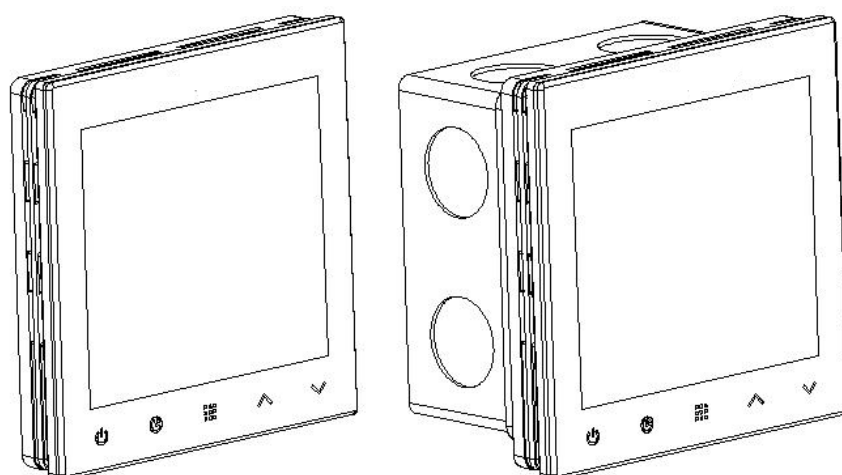


open the panel



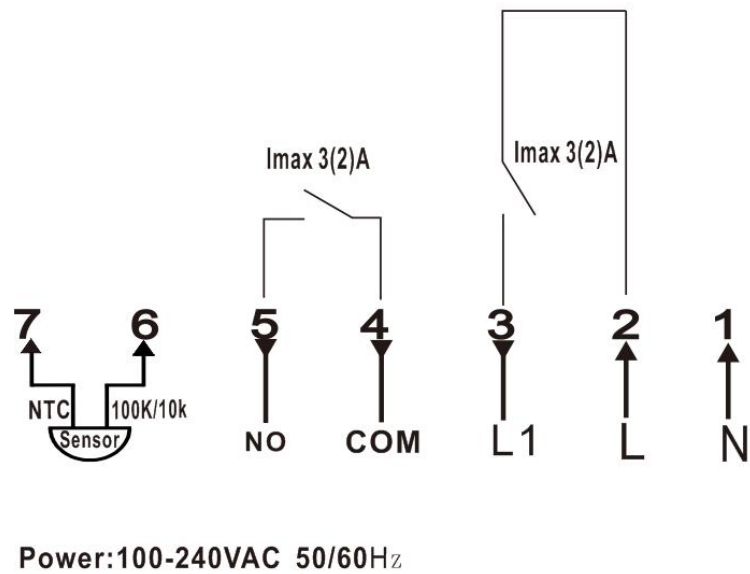
install the base

mounting screws

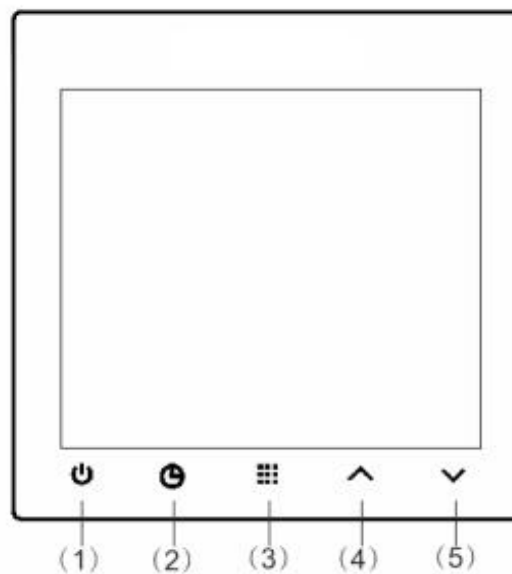


install the panel

ELEMENTARY DIAGRAM:



DISPLAY AND SWITCH DESCRIPTION:

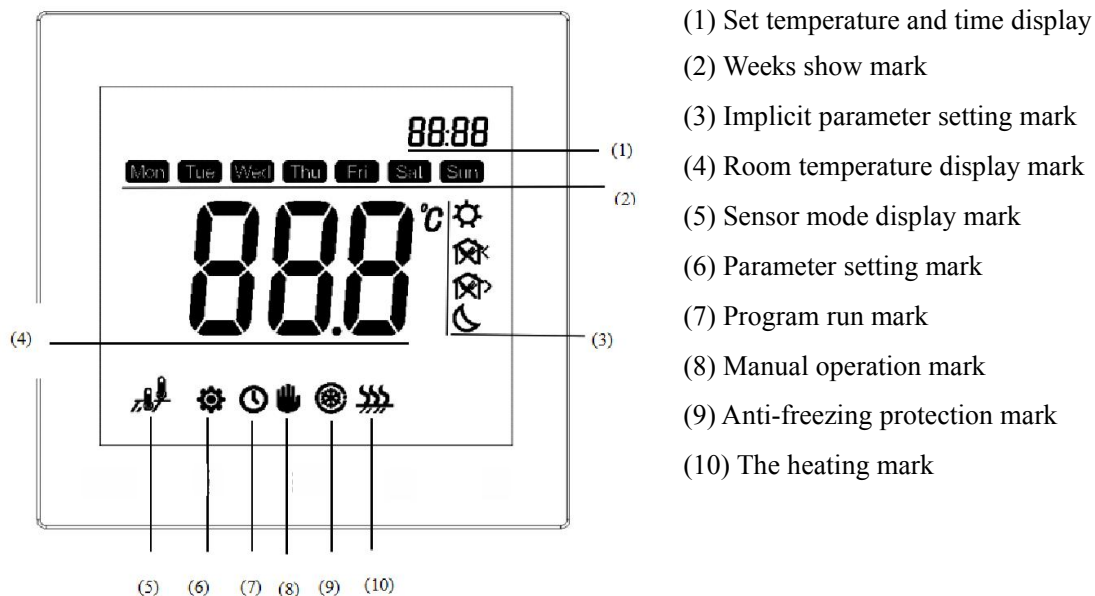


- (1)  Power/OK button : Press shortly to turn on/off the thermostat. Press this button to save the exit when the thermostat is set
- (2)  Time button: Shutdown mode to enter time Settings, through + / - key adjustment
- (3)  Menu button: In the thermostat on state, short press this button the setting temperature or time can be displayed in a short press. The lower part of the machine is pressed into the implicit

parameter setting, and the implicit parameter is set to enter the next implicit parameter at a time, and the output is restored to the factory setting according to the implicit parameters. In the state of startup, and the programming mode is long pressed into the programming setting; In the programming state, the short press enter the next programming setting, the long press the programming parameter reset

(4)  Raise temperature setting

(5)  Lower temperature setting



OPERATION:

1. Use the pre-initialization Settings 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℃	Select maximum room setting temperature
3		RL (5℃)	5℃—20℃	Select minimum room setting temperature
4		FH (40℃)	20℃—70℃	Select maximum floor setting temperature
5		FL (5℃)	5℃—20℃	Select minimum floor setting temperature
6		SEN (In)	RL/In/OU	Program option RL: Room temperature for control, external sensor temperature (floor temperature) for protection; In: only the room temperature control (water heating is adopted); OU: Only the external sensor temperature (floor temperature) control.
7		bl (2)	2/3	Backlight mode 2: When press button, backlight is bright for 30 seconds 3: Backlight always bright.
8		PSI (0)	7/0	Program option 7: 7 days separately (Refer to table 1 and table 2) 0: Non program
9		ES (OF)	On/OF	Intelligent Recovery Option: OF: Without intelligent function On: Activate intelligent function
10		An (OF)	On/OF	On: Active anti-freezing function OF: Close anti-freezing function drive is used
11		ntc (100)	100/10	Sensor selection 100: 100K Sensor 10: 10K Sensor

2. Manual Operation

2.1 Set current time and date (shutdown mode can be set time)

Press button for 5 seconds and enter the time setting. Once again short press button switches set minutes, hours, years, months, days, press or key adjustment time;

Press  button in the process and return to the running state of the program. No button will be automatically returned to the program running state in 20 seconds

2.2 Setting display time and display setting temperature (setting temperature and time cannot be displayed at the same time)

In the boot mode, short press  button displays the time, and the temperature is set at the once again press this button..

3. Operation mode

1) Running schedule mode(The factory default is Non programmable.)

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

2) manual mode

Enter the implicit parameter setting state to set the programming mode to ,press  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 , long press  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.

Excel 1 (7 days six period factory setting)

Heating mode		Mornin g 	Outside 	Afternoon n 	Outsid e 	Back 	Night 
Monday-Sunday	Time	6:00	8:00	12:00	14:00	18: 00	22: 00
	Temperature	21℃	16.5℃	21℃	16.5℃	21℃	16.5℃

Alarm instructions

Err. display	Err. condition	Result
Err. 2	Floor sensor not installed	Thermostat shuts down all heating output.
Err. 1	Temperature sensor is broken	Thermostat shuts down all heating output.

