

SAS908FCT-4BY FAN COIL THERMOSTAT WITH REMOTE CONTROLLER

Application: Heat/cool, 3speed fan, 4-pipe fan coil unit

Installation and operation instructions

SPECIFICATION

Electrical Rating.....100-240VAC, 50/60HZ
Fan Relay Amps inductive.....5(3)A
Heat/Cool Relay Amps inductive.....1(0.5)A
Set point Temperature Range.....5°C to 35°C
Dimensions.....115mm×90mm ×28mm
Color.....White

FEATURE

- Large LCD display with backlight
- Set points and room temperature display simultaneously
- Maintains the temperature within the range of 0.5°C to the set point
- Adjustable 3-speed fan with fan stop option.
- Manual change over
- Never lose user setting in the event of power-off, no battery is required
- Display temperature recalibrates
- Sleep mode option

OPERATION

The Thermostat Buttons and Switches

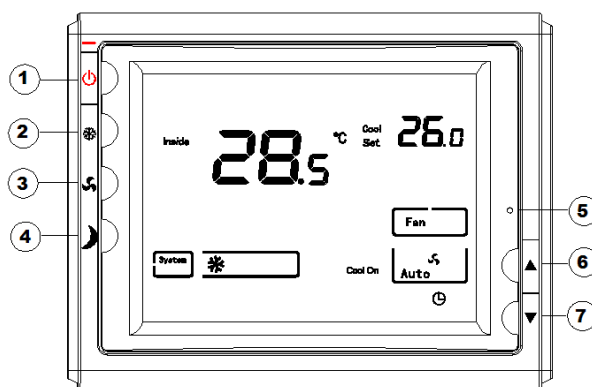


Figure 1

- ① Power button
- ② System switch (**HEAT, COOL**)
- ③ Fan switch (**AUTO, LOW, MED, HIGH**)
- ④ Sleep operation button
- ⑤ Reset switch
- ⑥ ▲ Raises Temperature setting
- ⑦ ▼ Lower Temperature setting

The Display

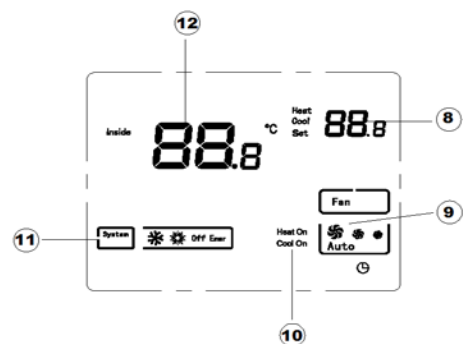


Figure 2

- ⑧ Setting temperature
- ⑨ Indicate fan switch position
- ⑩ **Heat on** shows when the thermostat is calling for heat.
Cool on shows when the thermostat is calling for cool.
- ⑪ Shows system mode
- ⑫ Room temperature

INSTALL THE THERMOSTAT

ATTACH THERMOSTAT BASE TO WALL

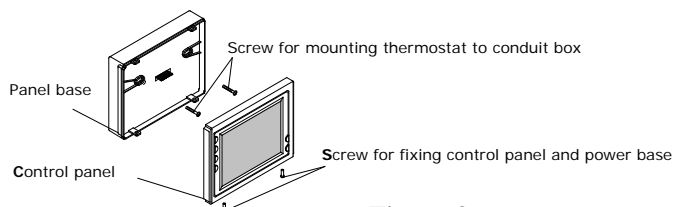


Figure 3

1. Remove 2 screws from the bottom of thermostat. Gently pull the control panel straight off the base. Forcing or prying on the thermostat will cause damage to the unit.
2. Connect wires beneath terminal screws on power supply module using appropriate wiring schematic. See figure 4 .
3. Push power base into 86mm×86mm conduit box.
4. Using two mounting screws mount the power base to the wall. Place a level against bottom of base, adjust until level, and then tighten screws. (Leveling is for appearance only and will not affect thermostat operation.)
5. Replace control panel on the power base and fix power base and control panel by removed two screws in item 1

WIRING DIAGRAM

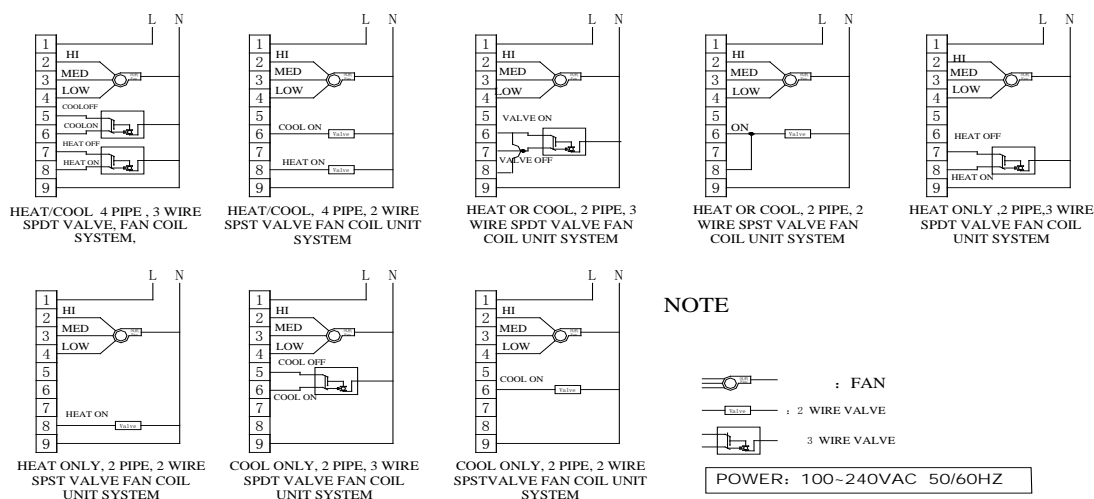


Figure 4

CHECK THERMOSTAT OPERATION

Switch on the thermostat

Fan operation

1. Push fan button, display will show and Auto separately means fan rotate in “HI ,MED, LOW” or AUTO speed.
2. If you select AUTO speed, fan operation will change speed according to the difference between the setting temperature and the room temperature.

HIGH speed	MED speed	LOW speed
Temperature difference is more than or equal to 3°C;	Temperature difference range is 2~3°C in between.	Temperature difference is less than 2°C

Heat system operation

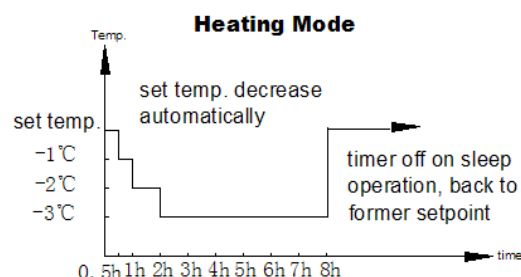
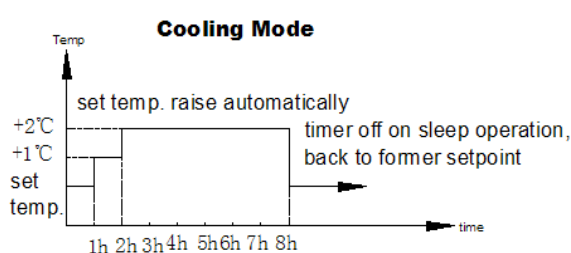
1. Press system switch to heat mode (☀)
2. Press “▲” to adjust the thermostat setting above the room temperature. The heating system should start to operate.
3. Press “▼” to adjust the thermostat setting below the room temperature. The heating system should stop operating.

Cooling system operation

1. Press system switch to cool mode (❄)
2. Press “▼” to adjust thermostat setting below room temperature. The cooling system should start to operate.
3. Press “▲” to adjust temperature setting above room temperature. The cooling system should stop operating

Sleep operation

Push sleep operation button ④, ⌚ appears indicate during the following 8 hours, the thermostat will control heating or cooling according to following curve. Push sleep operation button again, ⌚ disappears indicate the sleep operation feature is canceled.

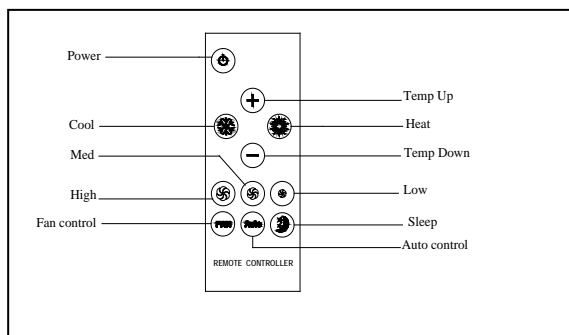


Applications:

System switch on cool mode: To achieve better sleep, 1 hour after sleeping mode setting, set point temperature will raise 1°C automatically, and 2 hours later, setting point temperature will raise 2°C and keep on with this temperature until timer off, which is 8 hours. After timer off, set point will be restored to formal setting automatically.

System switch on heat mode: To achieve better sleep, 0.5 hour after sleeping mode setting, set point temperature will decrease 1°C automatically, and 1 hour later, setting point temperature will decrease 2°C, 2 hours later, setting will decrease 3°C and keep on with this temperature until timer off, which is 8 hours. After timer off, set point will be restored to formal setting automatically.

Remote control



CONFIGURATION

The configuration menu allows you to set certain thermostat operating characteristics to your system or personal requirements. Switch off the thermostat and hold the sleep operation Button ④ over 4 second till power on again means you have entered the first configuration menu item. There are 6 menu items. Press button to change to the next item. After changed factory default, press button ④ or ① to confirm then exit the menu and return to the switch off operation, switch on the thermostat. If no keys are pressed within 20 seconds the thermostat will be switched off.

Return to factory default : Switch off the thermostat, Press button ④ over 4 seconds till power on again means you have entered the menu, long press button ④ over 4 seconds after "dEF" blinking readout three times, it means return to factory default. **(Caution: Please don't operate before malfunction happened.)**

Step	Press buttons	Displayed (factory default)	Press ▲, ▼ to select	Descriptions
1	④ 3 seconds	01 (0)	-3 --- +3	Adjust temperature coefficient.
2	④	02 (35℃)	20℃—35℃	Select maximum setting temperature limitation.
3	④	03 (5℃)	5℃—20℃	Select minimum setting temperature limitation.
4	④	04 (rE)	rd, rE	Memorize option before power loss.
5	④	05 (1)	1、2、3	Display backlight option.
6	④	06 (0n)	OFF/0n	Fan stop option.

1) Select temperature recalibrates Adjustment 3 LO to 3 HI -

You can adjust the room temperature display up to 3 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 factory default setting is "0".

2) Select maximum setting temperature limitation.

This feature provides a maximum setpoint temperature for heating or cooling. It can be changed between 20℃ to 35℃. The factory default setting is "35℃".

3) Select minimum setting temperature limitation.

This feature provides a minimum setpoint temperature for heating or cooling. It can be changed between 5℃ to 20℃. The factory default setting is "5℃".

4) Memorize option before power loss

Using ▲ or ▼ button to select "rE" or "rd". "rE" means the thermostat will Memorize its ON or OFF status before power loss. After power supply comes to normal again, the thermostat will remain ON or OFF according to what it is before power loss. "rd" means no matter the thermostat is switched on or off before power loss, after the power supply comes to normal again the thermostat will keep power off. The factory default setting is "rE".

5) Display backlight option

Select 1 the light will be on when any button of the thermostat is touched. The factory default is 1.

Select 2 the display will keep the light off continuously.

Select 3 the display will keep the light on continuously.

6) Fan stop option

Using ▲ or ▼ button to select "On" or "OFF". If you select "On", the thermostat will turn on the fan at a speed provided by the Fan Switch and will not stop the fan when there is no call for heat or cool. If you select "OFF", the thermostat will stop the fan when there is no call for heat or cool.

Mark: RESET function.

This function can help operator to recovery system when fault happened , display outoforder or system halted. Please use a pin to insert in button ⑤ hole till sounded click, then loosen it. Switch on thermostat and observe it, if there still have troubles, please don't hesitate to contact with local agency for warranty.