

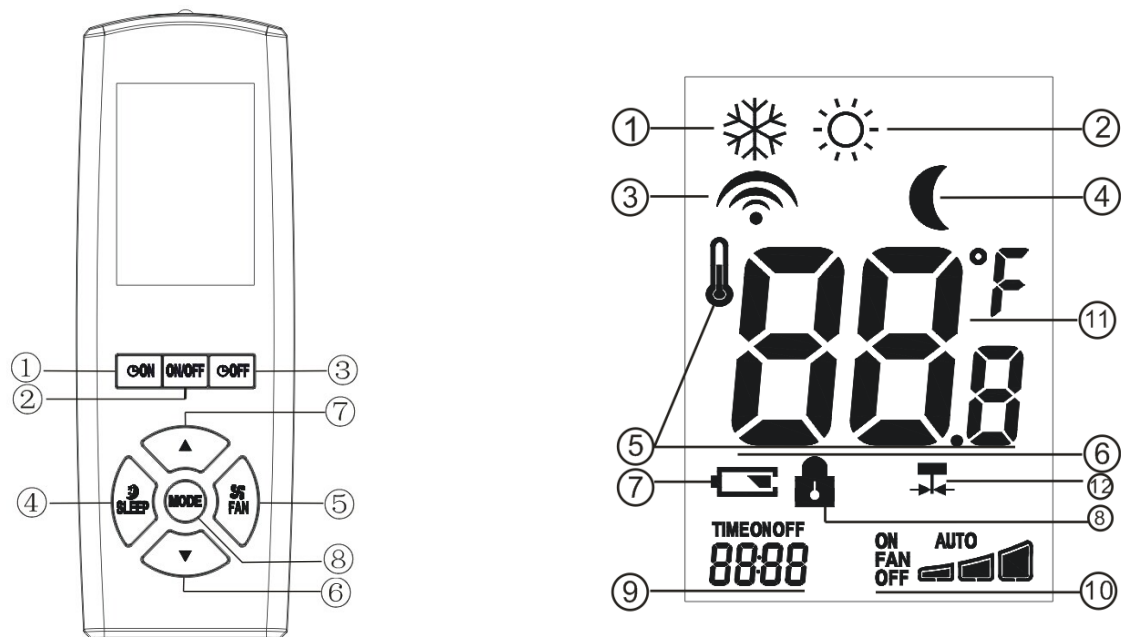
SAS916FCT-RF Wireless Fan Coil Controller Instructions

Wireless Fan Coil Controller which cooperated with SAS2010FCT-RC-DE Wireless receiver has been widely applied in business, industry, civil buildings and villas for heating, cooling or controlling Fan and water valve. In order to achieve a purpose of indoor thermostatic, the built-in temperature module detects the room temperature via comparing with user's setting temperature, and then control the electric valves to open or close.

Technical specifications

SAS916FCT-0-DF	SAS2010FCT-RC-DE
Operation voltage: 2 x AA 1.5V alkaline cell	Power supply: AC100V~240V 50Hz/60Hz
Setting temperature range: 5°C-35°C	Valve current loading: $\leq 0.5A$
Accuracy: $\pm 1^{\circ}C$	Fan current loading: $\leq 3(2)A$
Indication range: 0~50°C	Operating ambient temperature: 0°C~50°C
Operating ambient temperature: 0°C~50°C	

Operation and instructions



- ① boot timer
 - ② power on/off
 - ③ shutdown timer
 - ④ sleep mode on/off
 - ⑤ wind speed button (high/middle/low/auto)
 - ⑥ increase button
 - ⑦ decrease button (adjust temperature)
 - ⑧ mode button
- Key-lock: turn lock screen on/off by long-pressing
“⑥&⑦” simultaneously

- ① Cooling mode
- ② Heating mode
- ③ icon of signal transmission
- ④ Sleep mode
- ⑤ Indoor temperature indication
- ⑥ Setting temperature indication
- ⑦ Low battery alert
- ⑧ Key-lock
- ⑨ icon of boot/shutdown timer
- ⑩ Wind speed (high/middle/low/auto)
- ⑪ Temperature scale
- ⑫ Valve mark

Buttons description

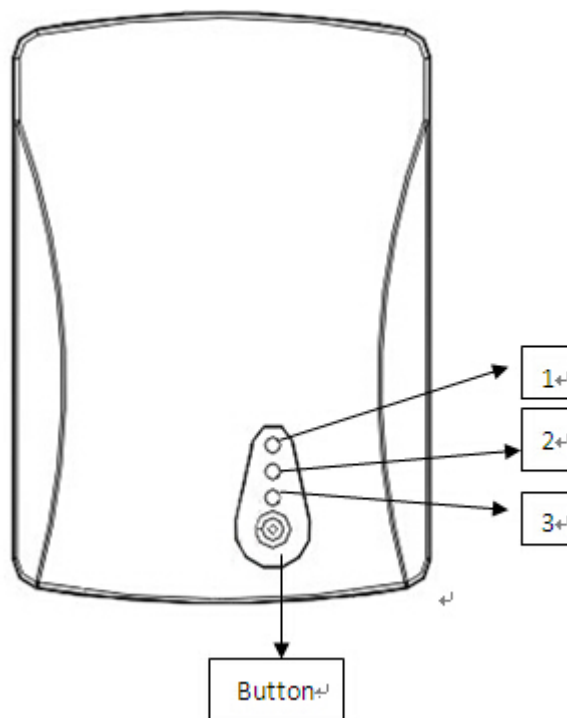
1. Boot timer: long-press to enter Timing On mode, adjust by *increase/decrease button*, and then quit via long-pressing button of “*power on/off*”.
2. Power on/off: control Boot or Shutdown
3. Shutdown timer: long-press to enter regularly shutdown mode, adjust by *increase/decrease button*, and then quit via long-pressing button of “*power on/off*”.
4. Sleep mode button, Code button, Hidden menu up button:
 - 1) In the state of power on --- press it into sleep mode and the same way to quit.
 - 2) In the state of power off --- long-press it into the function of learning code.
 - 3) In the state of hidden menu --- page up button
5. Mode button, Hidden menu button:
 - 1) In the state of power on --- press it to switch heating/cooling
 - 2) In the state of power off --- long-press it to enter the Hidden menu.
6. Fan button, Hidden menu down button:
 - 1) In the state of power on --- press it to select and switch wind speed (low, middle, high and auto)
 - 2) In the state of hidden menu --- page down button

Receiver operation description

Only one button:

- 1) Power on --- press it and then red light on
- 2) Power off --- press it and then red light off
- 3) Power off --- long-press it and then yellow light on and learning code

Indicator light description



- 1) Yellow light --- lighted in code, and blink while accepted signal
- 2) Green light --- wind speed: blinks per 3s if low, blinks per 2s if middle, blinks per 1s if high
- 3) Three-color light --- red light means power on, yellow light means heating, cyan light means cooling, no light means power off

SAS916FCT-0-DF functional description:

1. Mode selection

Pressing Mode button to select the mode of heating or cooling during system has been running normally.

2. Sleep: in the state of power off, press Sleep button to select

In the cooling mode: Timing starts up when entered Sleep mode, while the timer value $\geq 1h$, the setting temperature increase $1^{\circ}C$, the setting temperature increase $1^{\circ}C$ again while the timer value $\geq 2h$, and when the timer value $=8h$, it will back to previous setting temperature(decrease $2^{\circ}C$) which before entering Sleep mode, and then quit the Sleep mode automatically.

In the heating mode: Timing starts up when entered Sleep mode, while the timer value $\geq 0.5h$, the setting temperature increase $1^{\circ}C$, the setting temperature increase $1^{\circ}C$ again while the timer value $\geq 1h$, $2h$, and when the timer value $=8h$, it will back to previous setting temperature(increase $3^{\circ}C$) which before entering Sleep mode, and then quit the Sleep mode automatically.

3. Lock button

In the state of power on --- lock screen via simultaneously long-pressing *increase button* and *decrease button*, when the lock has been activated, pressing other buttons does not work

anymore.

4. Fan button: in the state of power on

Manual wind: low, middle, high

Auto wind: automatically select wind speed according to the temperature difference

5. Setting temperature

In the state of power on--- *increase button*: the setting temperature rise 1°C; *decrease button*: the setting temperature reduce 1°C.

6. Timing power on

Long-pressing the Boot timer button then “TIME ON” will be lighted, press the *increase* or *decrease button* to select the time of power thermostat on, and then it enter the state of power off via long-pressing Boot timer button, quit this mode by pressing *On/off button*.

7. Timing power off

Long-pressing Shutdown timer button then “TIME OFF” will be lighted, press the increase or decrease button to select the time of power thermostat off, and then confirm it via long-pressing Shutdown timer button, quit this mode by pressing *On/off button*.

8. Learning code:

In the state of power off, the screen will shows “LEA” which means enter the code match mode via long-pressing Sleep button, meantime press code button of SAS2010FCT-RC-DE, then yellow light will be lighted. Waiting for 20s, if code match has succeeded then quit the state after 2s of displaying 1, if code match has not succeeded then quit the state after 2s with displaying “no”, SAS2010DE yellow light would blinks 6 times if succeeded, yellow light would not blinks if not succeeded.

9. Implicit parameter

In the state of power off, long-pressing the *Mode button* into the implicit menu, then long-press *Fan button*, the interface shows “DEF” which means recover the factory default automatically.

10. Battery level

When the battery is low, the icon of battery level will blink, and transmission will be closed.

Hidden menu description

In the state of power off, into the hidden menu via long-pressing Mode button, press Mode button again to quit this state.

item	name	factory default	range
0	temperature coefficient	CL (0)	-4 -- 4

1	upper limit	AH (35)	20℃ -- 35℃
2	lower limit	AL (5)	5 -- 20℃
3	Temperature scale	FC (C)	C(Celsius) / F(Fahrenheit)
4	backlit	BL (AUTO)	OFF、 AUTO、 ON
5	Heating system	HE (1)	1(coil heating) 2 (water heating)
6	Energy-saving temperature of heating	CA (18)	10 --18℃
7	Energy-saving temperature of cooling	CC (25)	25 -- 30℃
8	Energy-saving signal (room card)	LE (00)	00(no card) OC(connection works) 5C(disconnection works)
9	Fan control	FA(ON)	OFF(Fan linkage)/ ON(running always)

Note: water heating: Fan keep closed

Temperature of energy saving for heating/cooling: the setting temperature of no room card but selected room card.

Alarm

E1: code gets wrong

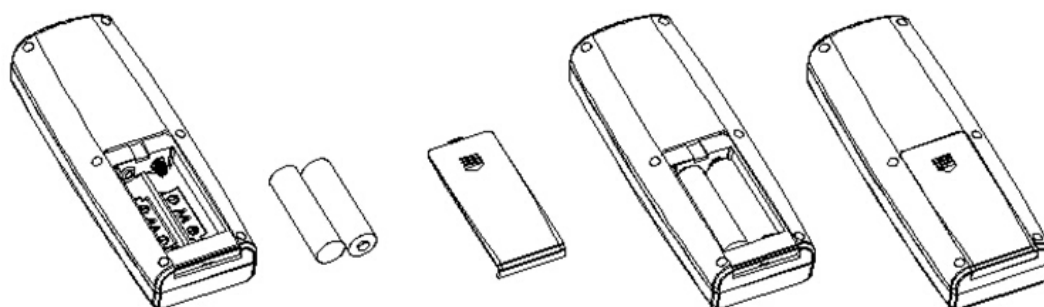
E2: external temperature sensor gets fault

E3: no room card alarm (shows at the bottom-left corner)

Off: alarm “2010” while power off

The icon of signal emission blink: communication does not work

Installation

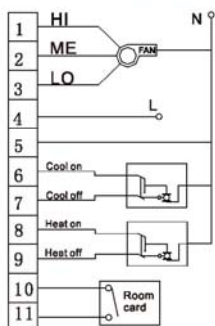


Wiring diagrams

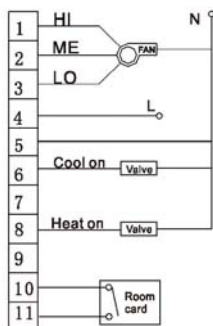
Note: Remove the cover of the Receiver, note that position of the jumper J3 in the bottom-left corner, according to your system to select the wiring diagram.



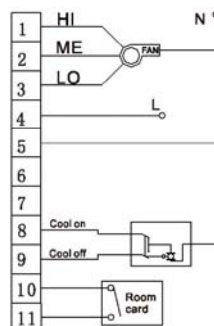
Four pipes



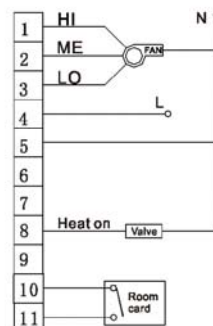
Heat /cool, 4 pipes,
3-wire valve control,
fan coil unit system



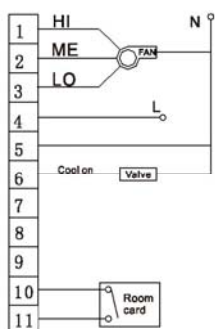
Heat /cool, 4 pipes,
2-wire valve control,
fan coil unit system



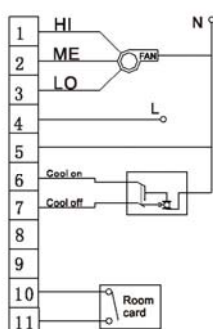
Heat only, 2 pipes,
3-wire valve control,
fan coil unit system



Heat only, 2 pipes,
2-wire valve control,
fan coil unit system

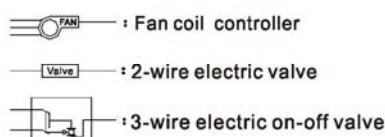


Cool only, 2 pipes,
2-wire valve control,
fan coil unit system



Cool only, 2 pipes,
3-wire valve control,
fan coil unit system

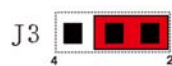
Diagram:



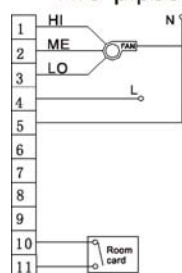
Terminals function

1	HI
2	ME
3	LO
4	L
5	N
6	Cool on
7	Cool off
8	Heat on
9	Heat off
10	Room card
11	Room card

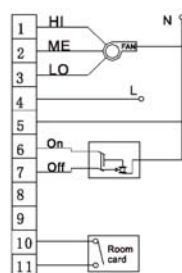
Power: 100-240VAC 50/60HZ



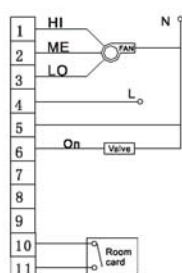
Two pipes



Heat/Cool,
no valve

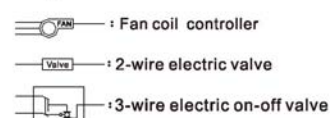


Heat/Cool,
3-wire valve control



Heat/Cool,
2-wire valve control

Diagram:



Terminals function

1	HI
2	ME
3	LO
4	L
5	N
6	Valve on
7	Valve off
8	
9	
10	Room card
11	Room card

Power: 100-240VAC 50/60HZ

Customer services

After you read the instructions, if you still cannot how to operate the thermostat, please contact with local installation engineers or directly make a call to our service department.

TEL for services: 40060-40098