

## Touch Screen Room Thermostat



User Guide Model: SS100F

### Welcome

Your new thermostat will provide year of reliable service. Using this digital thermostat will provide more uniform comfort in your home through the seasons. Thank you for buying the product!

Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.

### In the box you will find

Thermostat	1pc	Screws	2pc
User Guide	1pc	Wall plate	1pc

### Service

We offer the warranty of 18 months from the sales day. If it is not the problem of quality or beyond the warranty time, we will charge for the after-sale service.

### Technical Data of your thermostat

Sensor: NTC Accuracy:  $\pm 0.5^{\circ}\text{C}$   
 Temp. Range:  $5\text{--}35^{\circ}\text{C}$  Power Consumption:  $<1.5\text{W}$   
 Timing error:  $<1\%$  Power Supply:  $100\text{--}230\text{VAC}$ ,  $50\text{--}60\text{Hz}$   
 Current Load: 5A for fan and 3A for valve  
 Shell Material: PC+ABS (Fireproof)  
 Dimension:  $86\text{mm}\times 86\text{mm}\times 13.3\text{mm}$   
 Installation box:  $86\text{mm}\times 86\text{mm}$  or European 60mm  
 Ambient Temp.:  $0\text{--}45^{\circ}\text{C}$ ,  $5\text{--}95\%$ RH(Non condensing)  
 Storage Temp:  $-5\text{--}55^{\circ}\text{C}$

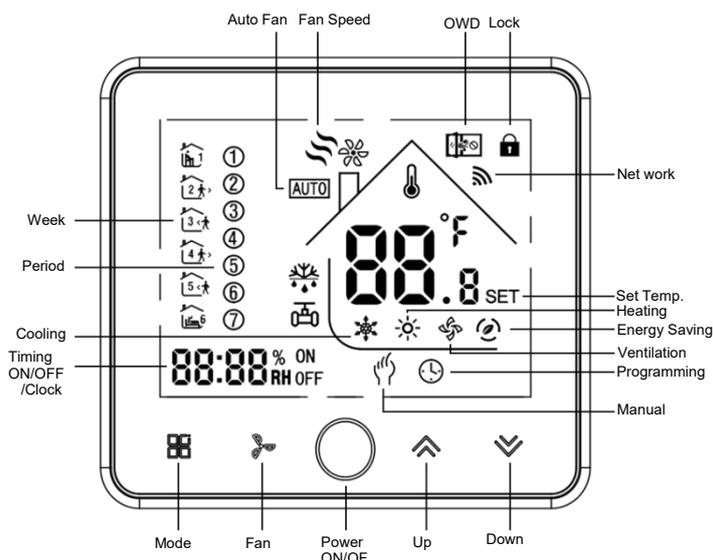
### About your thermostat

SS100F series Modern Touch Screen Room Thermostats are designed to on/off control the fans and valves in air conditioner applications via comparison of the room temperature and setting temperature as reaching the aim of comfort and saving energy. SS100F are microprocessor based thermostat with LCD display.

### Features of your thermostat

Modern design similar as a cell phone.  
 Acrylic lenses to avoid the finger scratch. Touch Button makes simple operation.  
 Large screen display with backlight is easy to read—even in the dark.  
 Four periods program schedules maximize comfort and economy.  
 One-touch temp control overrides program schedule at any time.  
 Precise comfort control keeps temperature within  $0.5^{\circ}\text{C}$  of the level you set.  
 Easy installation.  
 86mm hidden box and european 60mm round box is available.

### Home screen quick reference



### Model definition of your thermostat

A1: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, both will turn off)

A2: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, valve will turn off but fan will turn to low speed)

B: Two pipe; Control on/off Motorized Damper C: Two Pipe; Control Fan Coil Unit and Three wired Motorized valve

M: Two pipe; Control 0-10V Motorized Valve

E: Four pipe; Control Fan Coil Unit and Two wired Heat and Cool Motorized valve.

T: Clock

L: Backlight

P: Weekly Programmable

N: RS485/MODBUS RTU communication K: Keycard

E: External sensor

P and N could not be compatible at the same time.

For example: SS100FA1LN

### Operation

#### 1. Setting the temperature

In the programming mode, time and timing on/off could not be adjusted. the set temperature can be adjusted temporarily only, If the user want to change the timing and temperature, please reprogram.

In the manual mode, press  $\nearrow$  or  $\searrow$  to set temperature.  $\text{👉}$  will display in the screen.

#### 2. Setting Lock (optional function)

Press and hold  $\nearrow$  and  $\searrow$  for 5 sec. to lock the screen. The icon  $\text{🔒}$  will display on the screen.

Press and hold  $\nearrow$  and  $\searrow$  again for 5 sec. to unlock the screen.

#### 3. Setting the fan speed.

Press  $\text{🌀}$  to select the fan speed LOW, MED, HIGH, AUTO.

#### 4. Setting the system mode

Press  $\text{🏠}$  to change the system mode HEATING, COOLING and VENTILATION. In the mode of VENTILATION, the valve is off but the fan runs.

#### 5. Selecting manual, programming and Energy-saving Mode

Press and hold  $\text{🌀}$  for 5 sec to switch between manual mode and programming mode.

$\text{👉}$  means manual mode.

$\text{🕒}$  means weekly programming mode.

Means energy-saving mode.

Please note that this mode can only be set after this function is turned on in the item 09 of advanced setting.

### 6. Clock setting

As the above steps, press and hold for 5 sec, the minute will flash, THEN

Press or to set minutes of the time.

Press to set hours of the time.

Press to set week of the time.

Press into the adjustment of programmable.

### 7. Adjusting the weekly programmable

As the above steps, press and hold for 5 sec, the minute of clock will flash, then press for 3 times to enter programmable mode. Then press to change the different items.

Press or to set the relative values.

The order is Time adjusting → Temperature. adjusting → Week adjusting → Time setting → Temperature. adjusting → week adjusting ("12345", "6", "7", is "5+1+1" programmable mode, every mode has six times zones and six times temperature setting)

#### Default settings for program schedule

Time display	WEEKDAY (MONDAY - FRIDAY) (1 2 3 4 5 shows on screen)		WEEKEND (SATURDAY) (6 shows on screen)		WEEKEND (SUNDAY) (7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1	06: 00	20°C	06: 00	20°C	06: 00	20°C
Period 2	08: 00	15°C	08: 00	20°C	08: 00	20°C
Period 3	11: 30	15°C	11: 30	20°C	11: 30	20°C
Period 4	13: 30	15°C	13: 30	15°C	13: 30	15°C
Period 5	18: 00	15°C	18: 00	20°C	18: 00	20°C
Period 6	22: 00	15°C	23: 30	15°C	23: 30	15°C

In the mode of programmable, set temp., time could not be adjusted.

### 8. Setting functions and options

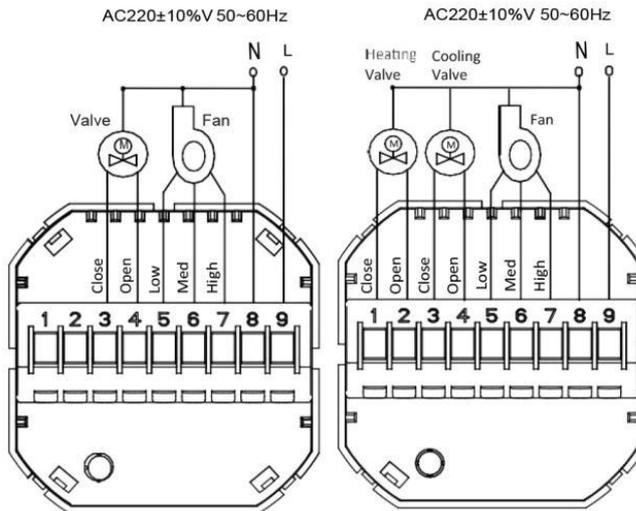
During power off, press and hold the and buttons together for 5 sec. to set the advanced settings. Then press to change the different items.

Press or to set the relative values.

All the settings will confirm automatically when power is on.

No	Function	Setting & Options	Default
01	Temp. Calibration	-9°C to 9°C	-2
02	Dead zone Temp.	1-5°C	1
03	Fan Control	00: When room temp. reaches the setpoint, the fan will turn off. 01: When room temp. reaches the setpoint, the fan will keep running.	00
04	Lock	00: All the buttons are locked except POWER 01 : All the buttons are locked	01
05	Heat/Cool	00: Cool/Ventilation only 01: Heat/Cool/Ventilation	01
06	Min. Set Temp.	5-15°C	05
07	Max. Set Temp.	5-35°C	35
08	Display Mode	00: display both set temp. and room temp. 01: display set temp only	00
09	Energy-saving Mode	00: Non-energy saving mode 01: Energy-saving mode, set temp, keep economy temp.	00
10	Heating Economy Temp.	10-30°C	20
11	Cooling Economy Temp.	10-30°C	26
12	Factory Reset	when show "-" and keep press  for 5 seconds until show "- - -", it means return to the restore factory reset	-

### Wiring your thermostat



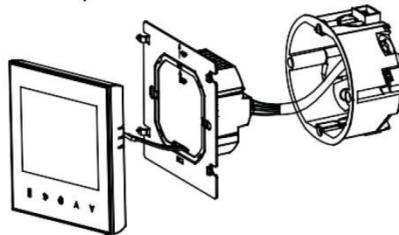
Two Pipe System

Four Pipe System

### Installing your thermostat

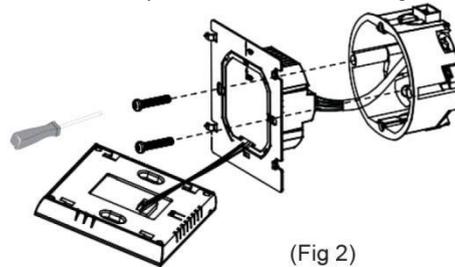
This product is suitable for standard 86mm wall box or european 60mm round box.

1. Connect the wire of power and other equipment into the terminals.



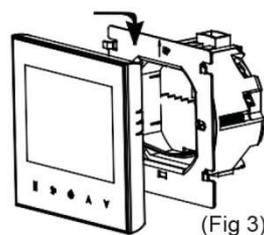
(Fig 1)

2. Fix the wall plate into the wall box by a screwdriver

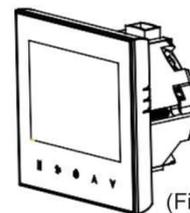


(Fig 2)

3. Connect the LCD board into the wall plate.



(Fig 3)



(Fig 4)

4. Finished.

**WARNING:** Please arrange the professional technician to install this product according to installation drawing and instruction.

**RISK OF ELECTRICAL SHOCK.** Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death instruction.