

AC223 Series Touch Screen Thermostat



I. Product Summary:

AC223 Series thermostats are designed to 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.

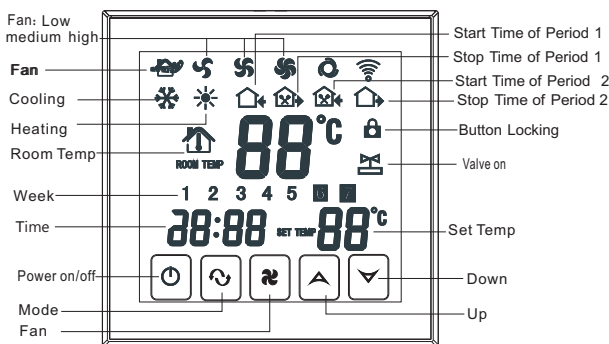
II. Technical Parameter:

Power Supply	AC200~240V, 50/60HZ
Current Load	3A~5A
Power Consumption	<0.5W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	10°C - 40°C
Accuracy	±1°C
Dimension	86x86x13.3mm
Ambient Temp.	0-45°C, 5-95%RH(Non-condensing)
Storage Temp.	-5~55°C
Installation Box	80x80mm

III. Main Functions and Characteristics

1. Modern design similar as a cell phone.
2. Large glass screen display with White backlight.
3. 2-pipe and 4-pipe for choose.
4. 3 Fan speed+AUTO Fan
5. 5+1+1 day weekly programmable schedule.
6. Room temp calibration function.
7. Selectable 80mmx80mm hidden box.
8. Precise comfort control keeps temperature within 1°C of the level you set.

IV. User Interface Explanation



V. Model Definition

- AC223 A2 LP 110: 110VAC, Cool Only, 3 fan speeds
- AC223 A2 LP 220: 220VAC, Cool Only, 3 fan speeds
- AC223 E2 LP 110: 110VAC, 4-pipe, Cool/Heat, 3 fan speeds
- AC223 E2 LP 220: 220VAC, 4-pipe, Cool/Heat, 3 fan speeds
- AC223 E1 1S LP 24: 24VAC, 4-pipe, Cool/Heat, 1 fan speed

AC223 M2 1S LP 24: 24VAC, Cool Only, 2-10Vdc output for cooling valve, 1 fan speed

VIII. Operation Instruction

1. Setting Power on/off

Press to turn on/off the power.

2. Setting Temperature

Press to set the temperature.

3. Setting the System Mode

Press to select heating, cooling or ventilation.

Factory Default is ventilation. AC223 A2 and AC223 M2 don't have Heating mode.

4. Setting the Fan Speed

Press to select the fan speed. AC223 E1 and AC223 M2 have only High Speed.

is Low speed(Factory default);

is Mid speed;

is High speed;

is Auto speed.

In auto mode, the fan will run according to the comparison of room temperature and set temperature.

5. Select Manual mode or Programming mode

Press and hold for 3 sec., PRG will display and will flash. Press to select Manual mode or Programming Mode. When stop flashing,

Programming mode is selected. When they are flashing, Manual mode is selected.

Programming mode runs according to the preset 5+1+1 day schedule and setting temperature.

6. Setting the Real Time.

After selecting Manual mode or Programming mode, continue to press to set real time, hh will flash in the position of hh: mm.

Press to adjust the current hour.

Press , mm will flash in the position of hh: mm.

Press to adjust the current minute.

Press , 1 will flash in the position of week: 1234567.

Press to adjust the current week.

7. Setting weekly programming schedule and corresponding setting temperature

After setting the real time, continue to press to set the Start Time of Period 1 of Mon.-Fri., **1 2 3 4 5** and will display on the screen.

When "hh" is twinkling, press to adjust the hour.

After the adjustment of hour, press until the "mm" twinkling,

Press to adjust the minute.

Press to set the Stop Time of Period 1 of Mon.-Fri., **1 2 3 4 5** and will display.

When "hh" is twinkling, press to adjust the hour.

After the adjustment of hour, press until the "mm" twinkling,

Press to adjust the minute.

Press to set the setting temperature during the Period 1, **1 2 3 4 5**, will display.

Press to adjust the setting temperature.

After the setting of Period 1, press to set the Start Time of Period 2 of Mon.-Fri.

Follow the above operation steps to finish the setting of Period 2 of Mon.-Fri..





Then press to start the setting of Start time of Period 1 of Sat., **6** and will display.




Follow the above operation steps to finish the settings of weekends (Sat. and Sun.).

After the completion of all adjustments, press to store the settings.

The settings can also be automatically stored 8 sec. after all of the adjustments.

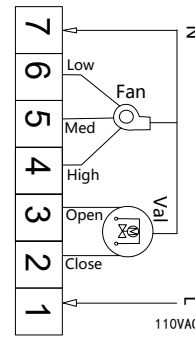
8. Advanced Setting Mode

During power-off status, press and hold  and  for 6 seconds to enter into Advanced Setting mode. Then press  to switch to different function item. Press  to adjust setting and options.

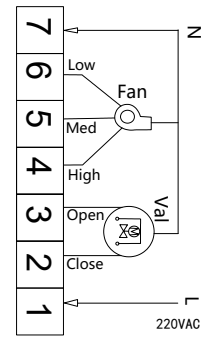
Code	Function	Setting and Options	Default
dIF	Start-up Differential Temp. (switching hysteresis)	0.5 - 1°C	1°C
SH1	Max. Set Temp. in Cooling Mode	10°C - 40°C	40°C
SL1	Min. Set Temp. in Cooling Mode	10°C - 40°C	10°C
SH2	Max. Set Temp. in Heating Mode	10°C - 40°C	40°C
SL2	Min. Set Temp. in Heating Mode	10°C - 40°C	10°C
Adj	Adjustment of Measured Temp.	-5°C - 5°C	0°C
FAN	Fan Control	0: When room temp. reaches the set point, fan will turn off. 1: When room temp. reaches the set point, fan continues working.	1
LOC	Button Locking	0: All buttons will be never locked. 1: All buttons will be locked except power button. 2: All buttons will be locked. * When 1 or 2 is set, buttons will be locked in 45 seconds if without any operation. Press and hold  button for 7 seconds to unlock or lock buttons.	0
PON	The state after the power is restored	00: Keep in turned off status 01: power-on and continue the working status before power failure.	01
FAC	Restore Factory Settings	Adjust to 00 by pressing  and then press  to restore factory settings.	08

All the settings will confirm automatically in 7 seconds without any operation.

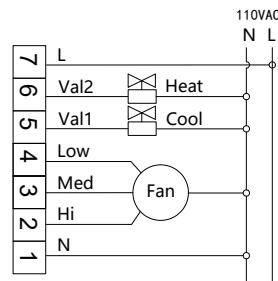
VII. Wiring Diagram



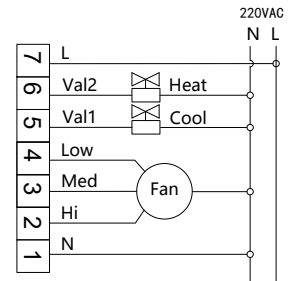
AC223 A2 LP 110



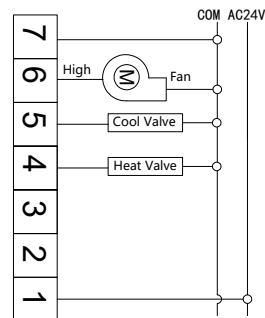
AC223 A2 LP 220



AC223 E2 LP 110



AC223 E2 LP 220

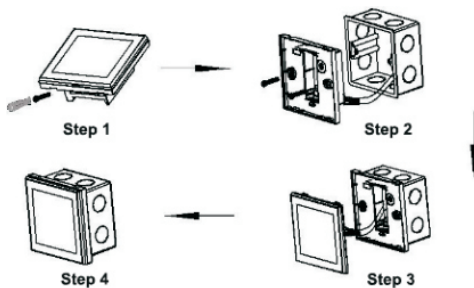


AC223 E1 1S LP 24

IX. Installation Instruction

1. Connect the line of power and valve into the terminals. Fix the wall plate into the wall box by a screwdriver.

This product is suitable for standard 80*80mm wall box.



2. Connect the lines with the LCD board.

3. Connect the LCD board into the wall plate.

NOTICE: The installation wire should be 1.5-2.5mm².

X. ATT:

Thank you for buying this 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:

Model	*****
Thermostat	✓
User Manual	✓
Screws	✓
Dryer	

Our Service:

We offer the warranty of 12 months from the sales day.

During the warranty, if it is belong to the quality issue, we will fix or replace them for you by free after test them.

If it is not quality problem or beyond the warranty time, we will charge for the after-sales service.

Warning:



The symbol means the unit is being installed, it may cause electrical shock hazard during maintaining, so please make sure it is operated by the professional technical worker.

