HY08AC Touch Screen Thermostat User Manual

Many thanks for your selection of our products and services, and also for your trust and support to us.

HY08AC-1

HY08AC-2

HY08AC-3

HY08AC-4

Application

HY08AC fan coil units thermostat is used for control room temperature in central air conditioning fan coil units system.By comparing room temperature with setting temperature to open and close fan coil units and motorized valve in the end of air conditioning system,to achieve   purpose of adjusting room temperature,comfort and saving energy. HY08AC-1 uses microprogrammed control unit,large LCD display,LCD display mode:working mode (cooling,heating,ventilation), fan speed (high,middle,low, auto),room temperature,setting temperature,time,7 days 4 period programming,timing turn on/off etc.

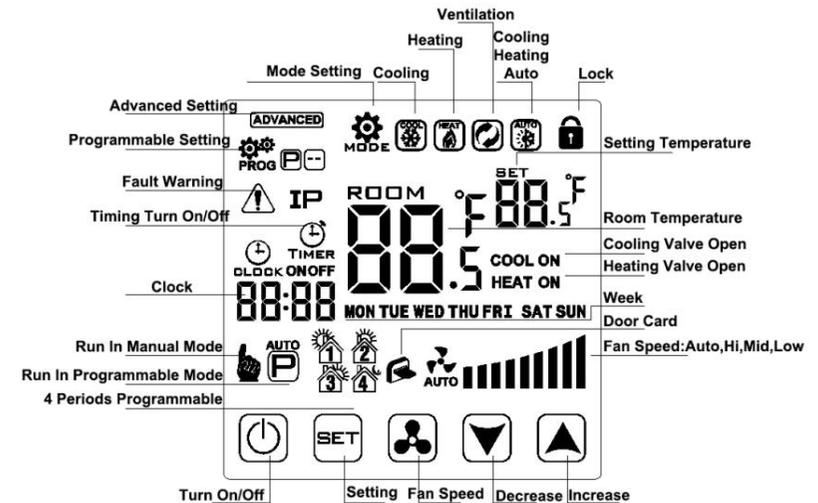## Technical Data

Power Supply	220V 50/60Hz	Installation	Flush Installation
Rated current	3A	Sensor	NTC
Set Point Range	5~35℃	Accuracy	±0.5°C
Ambient	0~50℃	Protection Class	IP30
Size	86*86*14	Housing	PC+ABS plastic
Ambient temperature	0°C~50°C	Storage temperature	-10°C-60°C

Operation Key

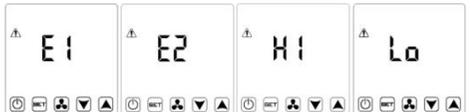| NO.	symbols	represent
A	▲	Increase key:adjust temperature and value
B	SET	Setting key
C	▼	Decrease key:adjust temperature and value
D	♣	Fan speed key;♣+SET is confirm key
E	⏻	Turn ON/OFF

Displays & Buttons

Operation Instruction

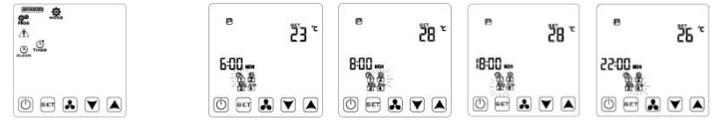| Operation	Description
Turn ON/Turn OFF	Press"⏻"key one time to turn on,press it again to turn off and close fan coil units and motorized valve.
Setting Temperature	In turn on state,press " ▼ "to decrease temperature and press" ▲ "to increase temperature,press every time,temperature change 0.5℃.
Fan Speed Choice	In turn on state,press" ♣ " to choose fan speed (High▮▮▮▮▮▮),(Middle),(Low▮▮▮),(AUTO▮▮▮▮▮▮).
Time Setting	In turn on state,long press"SET"for 3-5seconds to enter into setting screen, choose " 🕐 " icon,press " ♣ " confirm to time setting:minute "mm"flashing,press " ▲ "or" ▼ "to adjust value, press " ♣ " confirm to next setting;hour "hh"flashing, press" ▲ "or" ▼ "to adjust value;press

	" ♣ "confirm to next setting; week " **MON** "flashing,press" ▲ "or" ▼ "to adjust value.At last press" ♣ "or no any operation for 5seconds to exit setting.
Timing Turn on/off Setting	In turn on state,long press" SET "for 3-5 seconds to enter into setting screen, choose " TIMER "icon,press" ♣ "confirm to timing turn on setting,it displays "ON"and "--;--"or "hh mm"flashing at the same time,press press " ♣ " to confirm and press " ▲ "or" ▼ "to adjust the hour and press " ♣ " and " ▲ "or" ▼ " to adjust minute of turn on,adjust to "--;--" and press " ♣ " to cancel timing turn on and enter into timing turn off setting,it displays"OFF "and "--;--"or "hh mm"flashing at the same time,press press " ♣ " to confirm and press " ▲ "or" ▼ "to adjust the hour and press " ♣ " and " ▲ "or" ▼ " to adjust minute of turn off.Cancel timing turn on/off setting:just to adjust both timing turn on and turn off as"--";(timing turn on/off for one time or cycle running,please set it in advanced setting)
Working Mode Choice	In turn on state,long press" SET "for 3-5seconds to enter into setting screen,choose " MODE " and press " ♣ "to confirm:switch working mode between " COOL HEAT ⊘ AUTO ".Display" ❄ " means cooling mode,display" 🔥 "means heating mode,display" ⊘ "means ventilation mode(HY08AC-1-2P no heating mode);display " ❄ "means cooling,heating mode switch automatically(HY08AC-1-4P-A).
	Auto heating mode Auto cooling mode heating mode cooling mode
Manual And Programmable Mode Choice	In turn on state,short press" SET "for one time to run programmable mode;press " SET " again to run manual mode HY08AC-1-4P-M(MODBUS and RS485 version no programmable function)The time and temperature of programmable mode refer to Programmable Mode Setting And Working,when working auto

	programmable mode,the temperature can't be adjusted.
Motorized Valve Control	In cooling(heating)mode,when room temperature higher(lower)setting temperature 1℃,open motorized valve;when room temperature reach setting temperature,close motorized valve,fan coil continues to work(it can be set as fan close together with valve in advanced setting). Ventilation mode(fan coil unit is not under controlling) Fan coil unit is under controlling,it is valve and fan coil unit close together.
Key Lock Function	Key Lock function:if thermostat opens key lock function,no any operation after 10 minutes will lock keys automatically(screen display " 🔒 " icon),press " ▼ " for 5 seconds will unlock(" 🔓 " disappears)
Door Key Energy Saving Mode (HY08AC-1-K)	Enter into energy saving mode by door card.When pull out door card, " 🚪 "door card icon flashing,if thermostat is in cooling mode,temperature set as 26℃ automatically,fan run in low speed;if thermostat is in heating mode,temperature set as 18℃ automatically,fan run in low speed
Alarm	Sensor occurs fault,thermostat close fan coil and motorized valve and display" ⚠ " and"E1"and"E2". E1:sensor short circuit alarm E2:sensor open circuit alarm When temperature higher than 55℃ displays "HI"when temperature lower than 0℃ displays"LO" E1 E2 HI Lo

Programmable Mode Setting And Working

HY08AC-1 fan coil units thermostat can set different time different temperature;there is "P"(manual programmable) and "--"(cancel programmable) 2 programs can be chosen.

Manual Programmable

Long press "SET "for 3-5 seconds to enter into setting screen,,short press "SET "to choose "P" and press "♣"to confirm and enter into manual programmable setting.
23℃ 28℃ 28℃ 26℃ 6:00 8:00 18:00 22:00

After enter into manual programmable,To begin with the first period(" 🏠1 " flashing) of Monday,press " ✿ " to confirm,starting time(default 6:00),it can press" ▲ "or" ▼ "to adjust by yourself,press every one time to increase or decrease 30 minutes and then press " ✿ ",press " ▲ "or" ▼ " to adjust temperature,press " ✿ " enter into the second period " 🏠2 " setting,the same as above to finish 4 periods setting,then enter into Tuesday setting,the same setting method as Monday,then finish 7 days setting,no any operation for 5 seconds will save and exit automatically.

Cancel programmable:long press " SET "for 3-5 seconds to enter into setting screen,short press " SET " to choose " ✿PROG "programmable,press " ✿ "to confirm and to cancel programmable mode back to upper setting screen.Press " SET "to choose next setting or waiting for 5 seconds to exit

Default Setting

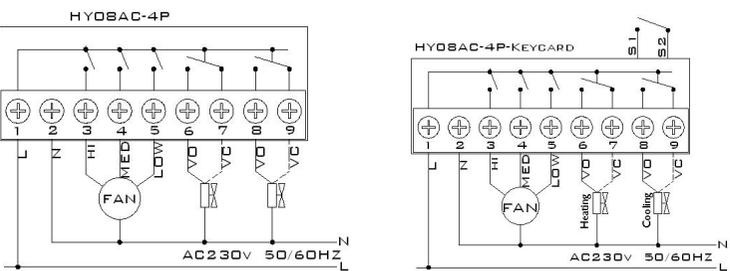| Period		Period Setting	Default Time	Default Temperature
Monday To Sunday	1	🏠1	06:00	23
	2	🏠2	8:00	26
	3	🏠3	17:30	26
	4	🏠4	22:00	23

Advanced Setting

In turn off state,long press " ✿ " for 5 seconds to enter into advanced setting.Press" ▲ "or" ▼ "to set,short press " SET "to next option and press" ▲ "or" ▼ "to set

Display Sign	Setting Options	Data Setting Function	Factory Default
A1	Measure Temperature Calibration	-9-+9℃	0.5℃ Accuracy Calibration
A2	Children Lock Setting	0:Half Lock;(can turn on/off and adjust temperature) 1:Full Lock 2:Cancel Children Lock	0
A3	Setting Temperature Lowest Limit	1-25℃	5℃
A4	Setting Temperature Highest Limit	30-70℃	35℃
A5	Fan Coil Units Control	0=Fan Under Control 1=Fan Isn't Under Control	0

A6	Timing Turn On/Off Running Way	0=Timing Turn On/Off For One Time 1=Timing Turn On/Off For Cycle Running	0
A7	Key Card Status	00:S1 Connect S2 Means Put-in Card Status; 01:S1 Disconnect S2 Means Pull-out Card Status.	00
A8	After Door Card Pull Out To Cool Temperature	Setting Range 22 ～32 ℃	26℃
A9	After Door Card Pull Out To Heat Temperature	Setting Range 10～21℃	18℃
AA	Valve Output Choose	2: 2Pipes 4:4 Pipes	4
AB	Return To Factory Default Setting	Display A o,Long Press Fan Key To Return To Factory Default Setting	

Wiring Diagram

Cautions on Installation and Use

1. To prevent the thermostat display from a high fluctuation, special treatment has been made to the program. Therefore, it is normal that the thermostat cannot immediately display the sudden change of temperature.
2. The thermostat installed on 1.5m above the ground.
3. For the thermostat installed,please take care not to install it to the wall corner, door / window side or behind the door or in such unheated area as exterior wall. Avoid hot / cold air duct, radiator, flue or thermal pipe.
4. If you have any problem for the installed ,please contact our company hysen, we will make a demonstration for you
5. Only the professional technicians are permitted to open the transmitting and receiving box of the thermostat for installation. When install the power supply, make sure that the power cable is well insulated.
6. The thermostat is unrepairable product. The user shall not open the internal circuit board.
7. HY08AC series thermostat design for the standard 75x75x 35mm wall mount box installed. Follow the instructions to open the rear cover base, mount it on the wall and wire it.
8. Before installing the thermostat, make sure that the system is disconnected. The maximum voltage of the system shall meet the requirements specified in the Instruction Manual (Max. AC Voltage: 250V).

Warranty：
We offer the warranty of 18 months, from the sales day. The products of our company can have lifetime warranty ,if it is not the quality problems, or beyond the warranty period, we will charge for the after-sale service.