#### Touch Screen Thermostat User Manual

### 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. It uses microprogrammed control unit, large LCD display, LCD display mode: working mode (cooling, heating, ventilation), fan speed (high, med, low, auto), room temperature, setting temperature, time, 7 days 4 period program, timing turn on/off etc.

Fechnical Data Power Supply	220V 50/60Hz	Installation	Flush Installation
Rated current	3A	Sensor	NTC
Set Point Range	5~35°C	Accuracy	±0.5°C
Ambient	0~50°C	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		the comments of the best week.	

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NO.	symbols	represent	
A		Increase key: adjust temperature and value	
В	SET	Setting key	
C	~	Decrease key:adjust temperature and value	
D	*	Fan speed key; 👪 + 🖭 is confirm key	
E	(0)	Turn ON/OFF	

#### Displays & Buttons



#### **Operation Instruction**

Operation	Description			
Turn ON/Turn	Press" "key one time to turn on, press it again to turn off and close fan coil units			
OFF	and motorized valve.			
Setting	In turn on state,press " To decrease temperature and press" (A "to increase			
Temperature	temperature, press every time, temperature change 0.5°C.			
Fan Speed	In turn on state, press"  to choose fan speed			
Choice	(High			
Time Setting	In turn on state, long press" for 3-5 seconds to enter into setting screen, short			
	press " et ing:minute " choose " choose " icon,press " and icon,press " on firm to time setting:minute			

	"mm"flashing,press " \( \bigcap \) "to adjust value, press " \( \bigcap \) "confirm to next setting; hour "hh"flashing. press" \( \bigcap \) "or" \( \bigcap \) "to adjust value; press " \( \bigcap \) "confirm to next setting; week " \( \bigcap \) "flashing,press" \( \bigcap \) "or" \( \bigcap \) "to adjust value. At last press" \( \bigcap \) "or no any operation for 5 seconds to exit setting.
Timing Turn on/off Setting	In turn on state, long press "T" for 3-5 seconds to enter into setting screen, choose "ONOFF" press "Confirm to timing turn on setting, it displays "ON" and ";" or "hh mm" flashing at the same time, press press "T" to confirm and press "N" and "No" "V" to adjust minute of turn on, adjust to ";" and press "T" 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 "T" to confirm and press "T" to adjust the hour and press "T" and "S" and "T" or "T" to adjust the hour and press "T" and "S" and "T" or "T" 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 "F" "for 3-5seconds to enter into setting screen,press "F" to choose "F" and press "F" to confirm:switch working mode between "F" to choose "F" and press "F" to confirm:switch working mode between "F" to choose "F" and press "F" to confirm:switch working mode between "F" to choose "F" and press "F" to choose "F" and press "T" to choose "F" and press "F" to choose "F" and press "F" to choose "F" to choose "F" and press "F" to choose
Manual And Program Mode Choice	In turn on state, short press "F" for one time to run program mode; press "F" again to run manual mode  HY08AC-4P-M(MODBUS and RS485 version don't have program mode) The time and temperature of program mode refer to Program Mode Setting And  Working, when working auto program mode, the temperature can't be adjusted.
Motorized Valve Control	In cooling(heating)mode, when room temperature higher(lower)setting temperature 1°C, open motorized valve; when room temperature reach setting temperature, close motorized valve, fan coil cominues 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 "a" icon),press "v" for 5 seconds will unlock("a" disappears)
Door Key Energy Saving Mode (HY08AC-K)	Enter into energy saving mode by door card. When pull out door card, "oor card icon flashing, if thermostat is in cooling mode, temperature set as 26°C automatically, fan run in low speed; if thermostat is in heating mode, temperature set as 18°C automatically, fan run in low speed
Sleep mode	In turn on state, long press ♠, ♣ is flashing, short press ♠ to run it, short press ♥to cancel  Remark: Sleep moce is not available when run ventilate mode or auto mode
Alarm	Sensor occurs fault, thermosat close fan coil and motorized valve and display "El"or"E2".  E1:internal sensor alarm  E2:external sensor alarm

Program Mode Setting and Working

HY08AC fan coil units thermostat can set different ime different temperature; there is 5+2,6+1,7days programs can be chosen.

Long press "for 3-5 seconds to enter into setting screen, short press "to choose "" and press "to confirm and enter into program mode setting.

After enter into program mode setting, To begin with the first period("a" flashing) of Monday, press "a" to confirm, starting time(default 6:00), it can press "a" or "or "or to adjust by yourself, press every one time to increase or decrease 30 minutes and then press "a", press "a" or "or "or "or to adjust temperature, press "a" enter into the second period "a" 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.

Default Setting

Period		Period Setting	<b>Default Time</b>	Default Temperature
Monday To Sunday	1	***	06:00	20° C
	2	<b>2</b>	8:00	15° C
	3	3	17:30	22° C
	4	45	22:00	15° C

#### Advanced Setting A

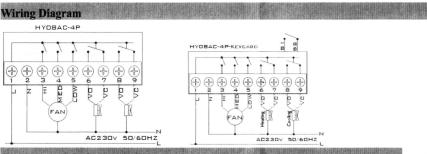
In turn off state, long press "♣" for 5 seconds to enter into advanced setting A.Press "♠" or "▼" to set, short press "♣" to next option and press "♣" or "▼" to set

Symbol	Item	Parameter	Default
A1	Temperature Calibration	-9-+9℃	-1°C
A2	Children Lock	O:half lock; (It is available to turn on/off and adjust temperature) 1:full lock 2: disable child lock	2
А3	Setting the low limit temperature	5℃	
<b>A</b> 4	Setting the high limit temperature	16-50℃	35℃
A5	Fan energy saving control	0: valve off,fan off 1: valve off,fan always on	0
Α6	Program mode type	0=5+2 1=6+1 2=7 (everyday all the same) 3=disable program mode	0
A7	Choose valve output	2:2pipe 4:4pipe	4
A8	Timing switch operation mode	0: Only run once 1: Cycle run	0
<b>A9</b>	Set temperature for external sensor	20-60°C	38°C
AA	Backlight sleep time	5-30S	20S
АВ	Reset	Display Ao, press 🏝 key until whole show	Ao

Advanced Setting B

Turn off thermostat ,long press <sup>□□</sup> 5S to enter advanced setting B, Short press <sup>□□</sup> to set next item, press "▲" or "▼" to set item data

TICK	next item, press 🖨 or 🕾 to set item data					
B1		0: inner sensor				
		1: inner sensor with key card				
		2:Double sensor when choose 2, In the heating state,				
	Sensor type	normally only valve is opened, and the fan is turned on	1			
		when the external temperature is detected to be ≥X°C.				
		When the temperature is detected to be lower than				
		(X-2) °C, the fan is turned off.				
B2	Key Card Type	00: S1 Connect S2 Means Put-out Card Status;	00			
		Disconnection Means Pull-in Card Status				
		01: S1 Connect S2 Means Pull-in Card Status;				
,		Disconnect Means Put-out Card Status				
В3	After Door Card Pull Out	Setting Range 22∼32℃	26℃			
	To Cool Temperature					
В4	After Door Card Pull Out	Setting Range $10^{\sim}21^{\circ}\!$	18℃			
	To Heat Temperature					



- 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
- 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).