

Thermostat HC4201TA Instruction Sheet Edit:

T&J

1. Model no .HC4201TA thermostat
2. HC4201TA series of segment LCD thermostat with a high voltage version (100~240VAC) and a low voltage version (12VDC). It is used for Fan-Coil control (FCU) either for single-coil or 2-coil valve control. Its large LCD screen with internal sensor monitors indoor temperature and automatically control the cooling/heating to maintain the temperature desired.

3. Functional features:

- Low profile mounting either in single-gang frame or part of multi-gang frame (Infinet series: 2,3,4 or 5-gang frame)
- Large screen LCD with good visual effect, low reflection and slim
- Touch screen operation with LCD backlighting
- Touch screen feedback with beep sound (can be muted)
- RS-485 communication port, standard MODBUS protocol (option)
- Function status display on LCD screen
- Temperature compensation ($\pm 5^{\circ}\text{C}$)
- Real-time clock, RTC (option)
- Data retention after power failure

- Real-time clock display (option)
- Energy saving or Economic/Eco mode

4. List of model no.

Model no.	Voltage	Cooling/fan	Heating	Dry	RS 485
HC4201TA-00	100-240VAC	√			
HC4201TA-00A		√			√
HC4201TA-00M		√			√ (Isolated)
HC4201TA-02		√	√		
HC4201TA-02A		√	√		√
HC4201TA-02M		√	√		√ (Isolated)
HC4201TA-92A	12VDC	√	√		√
HC4201TA-92M		√	√		√ (Isolated)
HC4201TA-93A		√	√	√	√
HC4201TA-93M		√	√	√	√ (Isolated)

5.SPEC

	High Voltage	Low Voltage
Power voltage	100-240V AC 50/60Hz	12V DC
consumable power	<1.2W	<0.3W
Load current	<2A	<40mA
Temperature-sensing component	NTC	NTC
Preset temperature range	16 $^{\circ}\text{C}$ -35 $^{\circ}\text{C}$	16 $^{\circ}\text{C}$ -35 $^{\circ}\text{C}$
Temperature precision	+/- 1 $^{\circ}\text{C}$	+/- 1 $^{\circ}\text{C}$
Display of temperature range	0~50 $^{\circ}\text{C}$	0~50 $^{\circ}\text{C}$
Compensation value of temperature	-5 $^{\circ}\text{C}$ -5 $^{\circ}\text{C}$	-5 $^{\circ}\text{C}$ -5 $^{\circ}\text{C}$
Work temperature	0~50 $^{\circ}\text{C}$	0~50 $^{\circ}\text{C}$
Work humidity	0-90%RH (noncondensing)	0-90%RH (noncondensing)
Number of terminal	13	7
Type of screw	M2.5	M2
Size of cable	22-14AWG	24-16AWG

6. Operation instruction

a) Buttons function set

On/off key: Press to be on/off

Mode key: Press the mode changes by turns in a cycle, 'refrigeration' 'heating' 'fan' 'economic mode' .

Economic mode: To adjust automatically to the below economic mode as per the indoor temperature.

Economic Cooling mode: to set the default temperature to 25 with low rotate speed of fan

Economic heating mode: to set the default temperature to 21 with low rotate speed of fan(only suitable for the product with heating mode)

Economic fan mode:Low speed of fan set

Fan key: press key, the wind speed of thermostat will change by steps, 'low'- 'medium'- 'high'- 'AUTO'

Temperature rising key:press key,it will rise by 1 $^{\circ}\text{C}$ (range16-35)

Temperature decreasing key:press key,it will lower by 1 $^{\circ}\text{C}$ (range16-35)

(b) Set of delayed shutdown

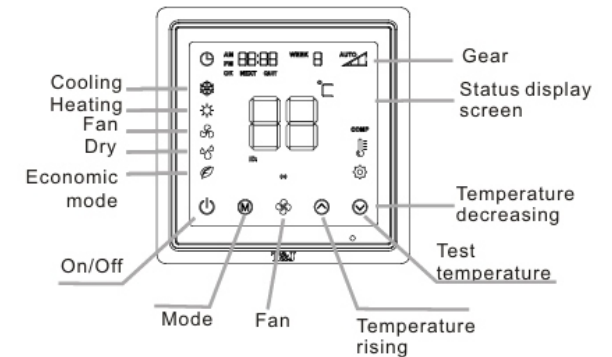
Set:Long press for 5s to enter set interface under the state of start-up

Steps:

- ① Enter the interface,the time format:XX(hour:minute),it will blink under state of set,to set the timing by pressing up and down press(the countdown range is within 30 min)
 - ② Once again press , by pressing the up/down key to confirm the function of countdown,which shows ON/OFF;
 - ③ Once again press ,confirm and return to main interface
- (c) Menu set modbus station number
- ① Set:long press for 5s to enter set interface in shutdown mode,pres to set,after finishing set,press for confirmation
 - ② Temperature compensation setting :in shutdown mode,long press for 5s to enter set interface,press to set.Press for confirmation after finishing set. (Compensation range-5-5 $^{\circ}\text{C}$)
 - ③ After the temperature up to the set value,whether to close fan set:long press for 5s to enter set interface in shutdown mode press to set indoor temperature,after finishing set press for confirmation
 - ④ Mute On/Off(beep sound)

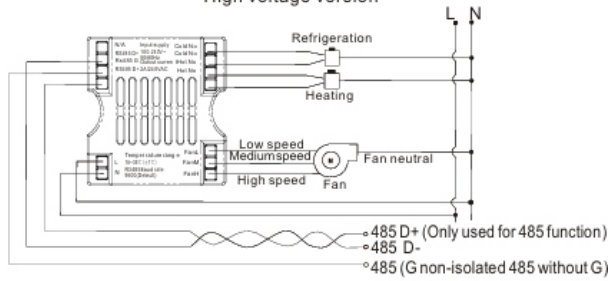
Set the sound of button:long press for 5s to enter set interface press to set the status of beep(ON/OFF), press for confirmation after finishing set.

7. Panel

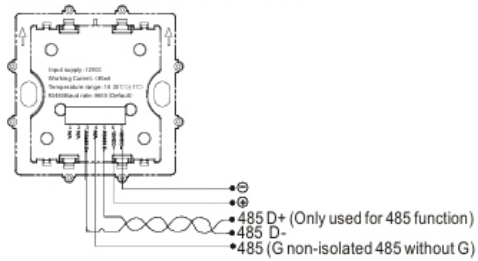


8. Wiring diagram

High voltage version



Low voltage version



9. Notes

- Please make sure the thermostat is powered off during installation or maintenance
- Do not knock on the thermostat during installation and ensure the the mounting surface is flat
- Do not press on the LCD screen or the sides of the screen which may cause the display screen to break or crack
- Please wire according to the wiring diagram, otherwise it may cause damage to the thermostat
- Please use the screws provided, otherwise warranty might be voided