

SAS810FCT-2 –485 FAN COIL THERMOSTAT

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Application: Heat/cool, 3speed fan, 2 pipe fan coil unit

Installation and operation instructions

SPECIFICATION:

Electrical rating.....100-240VAC 50/60Hz

Fan Relay Amps inductive.....8(5)A

Heat/Cool Relay Amps inductive.....3(2)A

Room Temperature Setting Range.....5°C to 35°C

Dimensions.....86mm×86mm×15mm (or 3.38"×3.38"×0.6")

FEATURES:

Large LCD display with backlight

Temperature adjustments are simple with the large up-down arrows

Display shows both set points and room temperature simultaneously

Maintains the temperature to within 0.5degree set point

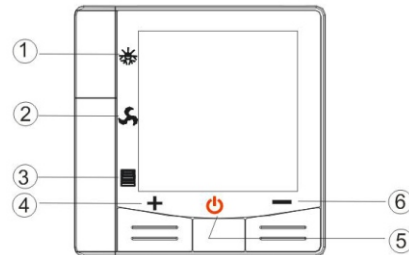
Auto fan with adjustable 3-fan speed

Permanent user setting retention during power loss, no batteries are required

OPERATION :

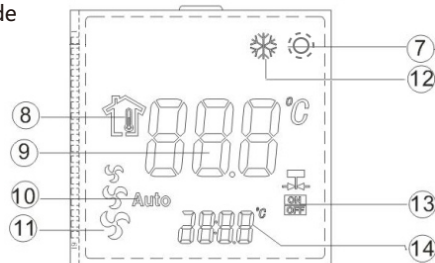
The Thermostat Buttons and Switches

1. System button (COOL,HEAT)
- 2 .Fan speed option button (HI MED LOW AUTO)
3. Configuration menu option button
- 4 .Raises temperature setting
- 5 .Power button
- 6 .Lowers temperature setting



The Display:

- 7. Shows thermostat is in heating mode
- 8. Shows thermostat is measuring room temperature
- 9. Shows room temperature
- 10. Shows fan rotate in Auto speed
- 11. Shows fan speed upon (HI, MED, LOW)
- 12. Shows thermostat is in cooling mode
- 13. Indicate the output to motorized valve is ON or OFF
- 14. Shows setting temperature



INSTALL THE THERMOSTAT:

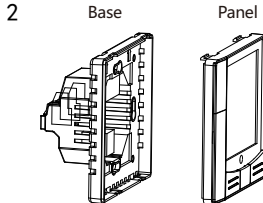
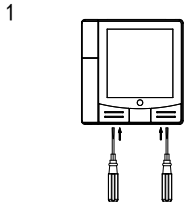
ATTACH THERMOSTAT BASE TO WALL

WARNING: ELECTRICAL SHOCK HAZARD

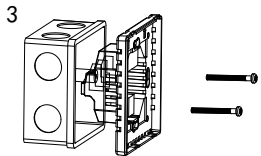
Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.

IMPORTANT:

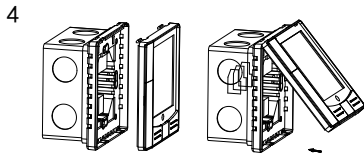
Thermostat installation must conform to local and national building electrical codes and ordinances.



Remove the panel



Screws for mounting thermostat to conduit box

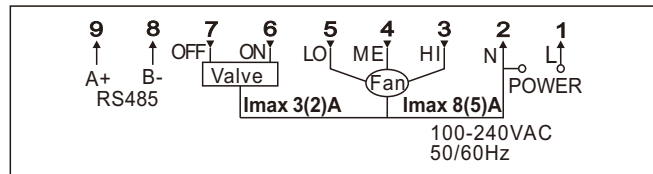


Install the panel

Figure3

1. Remove the packing material from the thermostat. Gently pull the control panel straight off the base. Forcing or prying on the thermostat will cause damage to the unit.
2. Connect wires beneath terminal screws on power supply module using appropriate wiring schematic. See figure 4
3. Push power base into 86mmX86mm conduit box.
4. Using two mounting screws mount the power base to the wall. Place a level against bottom of base, adjust unit level, and then tighten screws. (Leveling is for appearance only and will not affect thermostat operation.)
5. Replace control panel on the power base by snapping it in place

INSTALL THE THERMOSTAT :



Power:100-240VAC 50/60Hz

Figure 4

CHECK THERMOSTAT OPERATION:

Switch on the thermostat

Fan operation:

1. Push fan button, display will show    and Auto, separately means fan rotate in HIGH, MED, LOW, or AUTO speed.
2. If you select AUTO speed, fan operation will change speed according to the difference between the room temperature and setting temperature. If room temperature is 3°C higher than setting temperature in cooling or 3°C lower than setting temperature in Heating. Fan will run in High speed. If room temperature is 2°C- 3°C higher than setting temperature in cooling or 2°C-3°C lower than setting temperature in Heating. Fan will run in Medium speed. If room temperature is 0°C-2°C higher than setting temperature in cooling or 0°C-2°C lower than setting temperature in Heating. Fan will run in Low speed.

Heat system operation :

1. Press system switch to into Heat mode ()
2. Press " + " to adjust the thermostat setting above the room temperature.
The heating system should start to operate.
3. Press " — " to adjust the thermostat setting below the room temperature.
The heating system should stop operating.

Cooling system operation :

1. Press system switch to into Cool mode ()
2. Press " — " to adjust thermostat setting below the room temperature.
The cooling system should start to operate.
3. Press " + " to adjust temperature setting above the room temperature.
The cooling system should stop operating.

CONFIGURATION :

The configuration menu allows you to set certain thermostat' s operating characteristics to your system or personal requirements.

Switch off the thermostat and hold the sleep operaon Button ③ for over 4 seconds till power on again means you have entered the first configuration menu item. There are 8 menu items. press button ③ to change to the next item.

To exit the menu and return to the normal operation, switch off the thermostat and switch it on again. If no keys are pressed within 20 seconds the thermostat will be switched off. To revert to factory default setting, press button ③ for over 3 seconds in configuration menu item, all the configuration setting has reverted to factory default setting.

Step	Press buttons	Displayed (factory default)	Press + , - to select	Descriptions
1	③ 4 seconds	CL (0)	-4 --- +4	Adjust temperature coefficient
2	③	UP (35.0°C)	24°C—35°C	Select maximum setting temperature
3	③	dO (05.0°C)	5°C—20°C	Select minimum setting temperature
4	③	bL (2)	1、2、3	Select display backlight mode
5	③	LA (ON)	On/off	Select Fan stop on
6	③	rE (rE)	rd/rE	Memorize power on/off on before power loss
7	③	PP (00)	PP/00	Select pump protection
8	③	Ad (1)	1 ~ 247	Communication address

1) Select to adjust the temperature coefficient:

The display will show **"Temp adjust"** and its default setting value 0 flashing in the configuration menu. Selecting between **"-4"** to **" +4"** . You can adjust the room temperature display up to 4 lower or higher

2) Select maximum temperature:

The display will show **35.0°C** which is the default factory maximum temperature limitation. Using **" + "** & **" - "** button to set the maximum limitation. It can be change between 18°C to 35°C

3) Select minimum temperature:

The display will show **05.0°C** , which is the default factory minimum temperature limitation, Using **" + "** & **" - "** button to set the minimum temperature limitation. It can be change between 5°C to 20°C

4) Select display backlight mode:

The display will show **2** which is the factory default setting for display backlight mode, Using "+" & "-" button to select **1** , **2** , **3** . Select **1** the light will keep the light off continuously. Select **2** the display will be on when any button of the thermostat is touched. Select **3** the display will keep the light on.

5) Select Fan stop option:

The display will show "**ON**" which is the factory default setting for fan on. Using "+" & "-" button to select between "**ON**" and "**OFF**". If you select "**ON**", the thermostat will turn on the fan at a speed provided by the Fan Switch and will not stop the fan when there is no call for heat or cool. If you select "**OFF**", the thermostat will stop the fan when there is no call for heat or cool

6) Memorize power on/off option before power loss:

The display will show "**re**", which is the default factory setting for Memorize on before power loss. Using "+" & "-" button to select "**re**" or "**rd**". "**re**" means the thermostat will Memorize its ON or OFF status before power loss. After power supply comes to normal again, the thermostat will remain ON or OFF according to what it is before power loss. "**rd**" means no matter the thermostat is switched on or off before power loss, after the power supply comes to normal again the thermostat will keep power off.

7) Select pump protection mode:

The display will show " 00 " which is the factory default setting for pump protection mode. Using "+" & "-" button to select between " PP " and " 00 ". Select " PP " will activate pump protection mode. Select " 00 " will cancel the function. It is recommended to activate the pump at least 30 second every 24 hours in order to avoid any seizing.

8) Select communication address:

The parameter range is 1 ~ 247.

Thermostat universal interface protocols V1.1

This protocol is in standard MODBUS as a reference, mainly use for communication between thermostat and upper computer. This protocol don't describe the MODBUS, about standard MODBUS, please refer to the relevant standard documents.

I、Basic description:

Number	Parameter	Protocol provision
1	operating mode	RS-485, master-slave; thermostat is the slave machine
2	Physical interface	A(+), B(-), GND three-wire system, or A(+), B(-) two-wire system
3	Baud rate	9600
4	Byte format	10 format (1 start bit + 8 data bits + 1 stop bit)
5	Transmission mode	RTU format (consult MODBUS standard)
6	Thermostat address	1—247
7	Command code	3, 6 (3—read thermostat, 6—set thermostat)
8	CRC check code	CRC-16 (consult MODBUS standard)
9	CRC verification mode	CRC-16 (consult MODBUS standard)
10	Data frame interval	Greater than 4 bytes

II、Read the thermostat frame format:

Command frame (give by upper computer) : Read the conditioner state

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03(readout command code)	00(Start address) High byte	00(Start address) Low byte	00(register count) High byte	0E(14)(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4.....Byte 19	Byte 20	Byte 21
Thermostat address	03(readout command code)	1A Bytes (28)	Air conditioning state value (14 registers)	CRC low	CRC high

Air conditioning state value instruction form:

Byte	Value	instruction	Register address
Byte 4	00	Thermostat state is high byte: general is 00	0(ON/OFF)
Byte 5	00/01	Thermostat state is low byte: 00—means close, 01—means open	
Byte 6	00	Thermostat mode is high byte: general is 00	1(MODE)
Byte 7	01-03	Thermostat mode is high byte: 1-cool, 2-heat	
Byte 8	00	Thermostat fan speed is high byte, general is 0	2(Fan speed)
Byte 9	00-03	Thermostat fan speed is low byte	
		00 – Auto speed	
		01 – High speed	
		02 – Med speed	
		03 – Low speed	
Byte 10	XX	Setting temperature high byte	3(Setting temperature)
Byte 11	YY	Setting temperature low byte	
Byte 12	00	Child lock state high byte	4(child lock)
Byte 13	00	Child lock state low byte: 1-lock, 0-unlock	

Byte 14	00	Thermostat temperature offset value high byte	5 (temperature offset value) -4~4
Byte 15	-4~4	Thermostat temperature offset value low byte	
Byte 16	XX	Upper setting temperature limit high byte	6 (Upper setting temperature limit) 240~350
Byte 17	YY	Upper setting temperature limit low byte	
Byte 18	00	Lower setting temperature limit high byte	7 (Lower setting temperature limit) 50~200
Byte 19	XX	Lower setting temperature limit low byte	
Byte 20	00	Working backlight mode high byte	8 (Working backlight mode)
Byte 21	XX	Working backlight mode low byte (1—light off,2--normal,3—stay lit)	
Byte 22	00	Fan linkage high byte	9 (Fan linkage)
Byte 23	XX	Fan linkage low byte (0—ON,1—Linkage)	
Byte 24	00	Able to memorize after outage high byte	10(Able to memorize after outage)
Byte 25	XX	Able to memorize after outage low byte (0—ON , 1—OFF)	

Byte 26	00	Anti- blocking function high byte	11(Anti- blocking funcon)
Byte 27	XX	Anti- blocking function low byte (0—OFF , 1—ON)	
Byte 28	00	Address for communication high byte	12(Address for
Byte 29	XX	Address for communication low byte (1~247)	communication
Byte 30	00	The current thermostat temperature high byte	5(room temperature)
Byte 31	00	The current thermostat temperature low byte	

III、 Read the thermostat frame format:

Command frame 1: Read the thermostat ON/OFFstate

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03(readout command code)	00(Start address) High byte	00(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	ON/OFFstate high byte	ON/OFFstate low byte	CRC low	CRC high

ON/OFFstate value: 0000 – Fan coil OFF, 0001 – Fan coil ON

Command frame 2: Read the thermostat mode state

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03(readout command code)	00(Start address) High byte	01(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	Mode state High byte	Mode state Low byte	CRC low	CRC high

Mode state value: 0001 – cool, 0002 – heat

Command frame 3: Read the thermostat fan coil state

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03(readout command code)	00(Start address) High byte	02(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	Fan speed High byte	Fan speed Low byte	CRC low	CRC high

Fan coil state value: 0000 – auto, 0001 – high, 0002– medium, 0003– low

Command frame 4: Read thermostat setting temperature

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03(readout command code)	00(Start address) High byte	03(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	XX (setting temperature) High byte	YY (setting temperature) Low byte	CRC low	CRC high

high byte XX= 01, low byte YY= 2c

0x012c= 300 (setting temperature only can be the multiple of 5, the range is 50~350) setting temperature is 30.0°C

Command frame 5: Read the thermostat child lock state

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(Child lock) High byte	XX(Child lock) Low byte	CRC low	CRC high

Child lock state: 0000 – unlock , 0001– lock

Command frame 6: Read the thermostat value of temperature offset

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(temperature offset value) High byte	XX(temperature offset value) Low byte	CRC low	CRC high

temperature offset value: 00FD(-3) 00FE(-2) 00FF(-1) 0000, 0001, 0002, 0003 -3~3

Command frame 7: Read the thermostat upper setting temperature limit

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(upper setting temperature limit) High byte	XX(upper setting temperature limit) Low byte	CRC low	CRC high

high byte XX= 01, low byte YY= 2c
0x012c= 300 setting temperature is 30.0°C

Command frame 8: Read the thermostat lower setting temperature limit

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(lower setting temperature limit) High byte	XX(lower setting temperature limit) Low byte	CRC low	CRC high

eg: 0032 0x0032=50 lower setting temperature limit is 5.0°C

Command frame 9: Read the thermostat backlight working mode

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(backlight working mode) High byte	XX(backlight working mode) Low byte	CRC low	CRC high

0001—light off 0002—normal 0003—stay lit

Command frame 10: Read the thermostat fan linkage

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(fan linkage) High byte	XX(fan linkage) Low byte	CRC low	CRC high

0000: no linkage (open fan when power on) 0001—linkage(open fan when power on and cooling/ heating)

Command frame 11: Read the thermostat about memorizing after outage

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(memorizing after outage) High byte	XX(memorizing after outage) Low byte	CRC low	CRC high

0000 – thermostat will restore data power on, 0001–thermostat will shut down after power on

Command frame 12: Read the thermostat anti- blocking function

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(anti- blocking function) High byte	XX(anti- blocking function) Low byte	CRC low	CRC high

0000—OFF 0001—ON

Command frame 13: Read the thermostat communication address

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03 (command code)	00(Start address) High byte	04(Start address) Low byte	00(register count) High byte	01(register count) Low byte	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Bytes)	00(communication address) High byte	XX(communication address) Low byte	CRC low	CRC high

communication address: 1 ~ 247

Command frame 14: Read thermostat current temperature

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	03	00	05(Start address)	00	01	CRC low	CRC high

Response frame (give by thermostat)

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Thermostat address	03 (command code)	02 (Byte count)	Current temperature High byte (XX)	Current temperature Low byte (YY)	CRC low	CRC high

Room temperature value 0Xxyyy (0x012c) high byte 01 low byte 2c
0x012c= 300 the room temperature is 30.0°C

IV、Set the thermostat frame format:

Command frame 1 (give by upper computer) set the thermostat ON/OFF

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06	00	00(Start address)	Setting value high byte	Setting value low byte	CRC low	CRC high

Setting value: 0000 – thermostat OFF, 0001 – thermostat ON;

Response frame: correctly operate, the instruction will return to the same;

Operation is not correct does not response, the upper computer will manage;

The rule about subsequent response of setup command is same with this.

Command frame 2 (give by upper computer) set the mode

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06	00	01(Start address)	Setting value high byte	setting value low byte	CRC low	CRC high

Setting value: 0001 – cooling, 0002 – heat, 0003 – ventilate;

Command frame 3 (give by upper computer) set the fan speed

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06	00	02(Start address)	Setting value high byte	setting value low byte	CRC low	CRC high

Setting value: 0000 - Auto speed, 0001- High speed, 0002- Mid speed, 0003- Low speed

Command frame 4 (give by upper computer) set the Setting temperature

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06	00	03(Start address)	Setting temperature high byte	Setting temperature low byte	CRC low	CRC high

High byte 01 Low byte 2c

0x012c= 300 (Setting temperature only can be the multiple of 5, the range is 50~350) Setting temperature is 30.0°C

Command frame 5 (give by upper computer) set the child lock

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06	00	04(Start address)	Child lock high byte	Child lock low byte	CRC low	CRC high

Setting value: 0000 – unlock , 0001– lock

Command frame 6 (give by upper computer) Set the value about temperature offset

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte	05(start address) low byte	00 Temperature offset high byte	xx Temperature offset low byte	CRC low	CRC high

Setting value: 00FD(-3) 00FE(-2) 00FF(-1) 0000, 0001, 0002, 0003

Command frame 7 (give by upper computer) Set the value about upper setpoint temperature limit

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte	06(start address) low byte	xx upper setpoint temperature limit high byte	yy upper setpoint temperature limit low byte	CRC low	CRC high

Setting value: 240~350 (a multiple of 5)

Command frame 8 (give by upper computer) Set the value about lower setpoint temperature limit

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte	07(start address) low byte	00 lower setpoint temperature limit high byte	yy lower setpoint temperature limit low byte	CRC low	CRC high

Setting value: 50~200 (a multiple of 5)

Command frame 9 (give by upper computer) Set the working mode about backlight

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte)	08(start address) low byte	Backlight working mode high byte	Backlight working mode low byte	CRC low	CRC high

Setting value: 0001 – light off, 0002 – working normal, 0003 – stay lit

Command frame 10 (give by upper computer) Set the fan linkage

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte)	09(start address) low byte	Fan linkage high byte	Fan linkage low byte	CRC low	CRC high

Setting value: 0000 – fan on (power on) , 0001 – fan linkage

Command frame 11 (give by upper computer) Set the setting of memory after outage

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte)	0a(start address) low byte	00 memory Setting after outage high byte	xx memory Setting after outage low byte	CRC low	CRC high

Setting value: 0000 – thermostat will restore data after power on,
0001–thermostat will shut down after power on

Command frame 12 (give by upper computer) Set the parameter about anti-blocking function

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte)	0b(start address) low byte	00 anti-blocking function high byte	xx anti-blocking function low byte	CRC low	CRC high

Setting value: 0000 – OFF, 0001– ON

Command frame 13 (give by upper computer) Set the parameter about communication address

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
Thermostat address	06 (command code)	00 (start address high byte	0c(start address) low byte	00 communication address high byte	xx communication address low byte	CRC low	CRC high

communication address:1~247

