



Installation Operation Maintenance Manual



Touch Screen Centralized Controller

MY2025

1. Centralized Controller Description

The touch screen centralized controller has the functions of touch control, Indoor unit centralized control, cloud platform WiFi networking, and modbus interface functions. Centralized control of each indoor unit under the group can be performed through the touch screen itself, the cloud platform APP, and the modbus interface. The resolution of this screen is 480*480 pixels. The overall size is 90*90*46mm.

The touch screen centralized controller also has functions such as group editing control, indoor unit group renaming, and weekly timing, which facilitates various group management and timing operations for the unit.

Interface Description:

The touch screen centralized controller has three interfaces, namely LN, XYE, and ABE, which represent the live wire and naught wire, the group central control interface, and the modbus interface respectively.

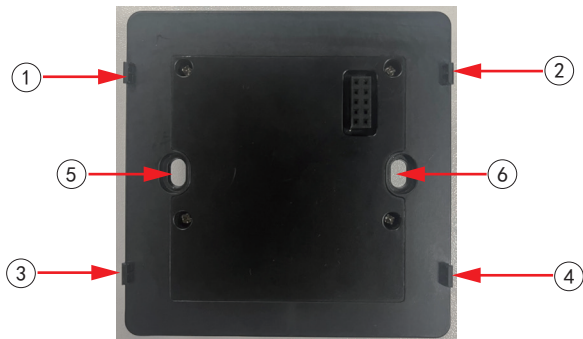
NOTE: The central controller limits the number of indoor units to 100, requiring all indoor units to have unique addresses, with no restriction on the number of outdoor units.

2 Installation Instructions

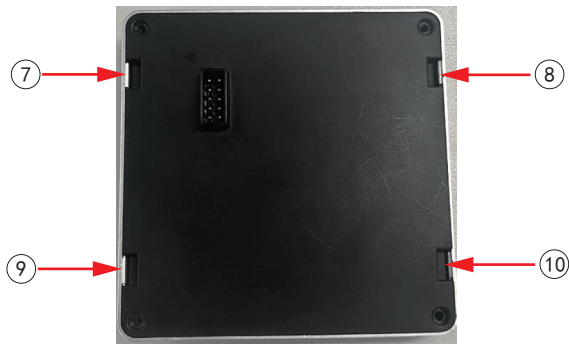
2.1 Connect the corresponding interface first



2.2 Fix the plastic parts shown in the picture below to the wall with screws (Note: ⑤⑥ is the screw hole position)



2.3 Align the ⑦⑧⑨⑩ of the centralized controller in the picture below with the ①②③④ in the above picture, and press down to fix the centralized controller.



3. Centralized Controller Function Description

3.1 Power-on loading

After the centralized controller is powered on, it will enter the indoor unit search interface. At this time, it will scan all the indoor unit (0-99) in the system. When the online indoor unit is searched, it will enter the main interface. If there is no online indoor unit, it will display No connecting interface.

Schematic diagram of Main interface:

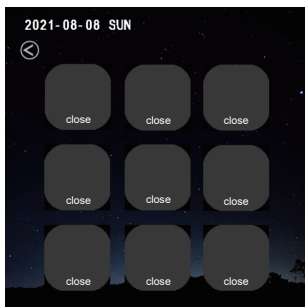


Schematic diagram of not connected to the indoor unit:

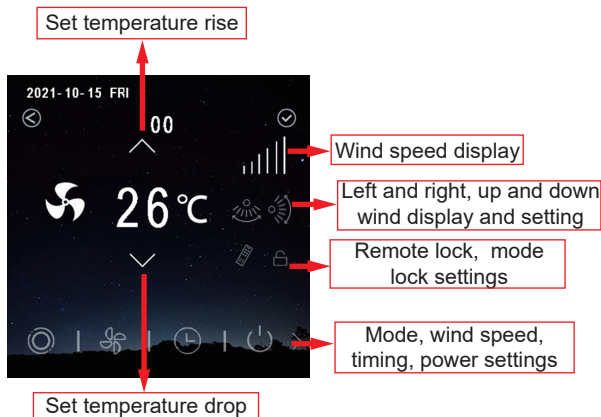


3.2 Single Control

Click the single control to enter the indoor unit selection interface, this interface will display the status of all online indoor unit, and each page displays 9 indoor unit, which can be turned through the page key.



After selecting the indoor unit you want to control, click the corresponding indoor unit to enter the control interface.



3.2.1 Power button

Touch , the indoor unit can be turned on or off.

3.2.2 Mode change button

Touch , Air conditioning mode can be changed.

Auto mode→Refrigeration→Dehumidification→Heating→
Ventilation→Auto mode(Loop)

3.2.3 Fan speed change button

Touch , the fan speed of the indoor unit can be changed.

Each time you press the fan speed button, the fan speed will change as shown in the figure below:

First gear→Second gear→Third gear→Fourth gear→Fifth gear
→Sixth gear→Auto wind→First gear(Loop)

3.2.4 Set temperature rise button

Touch , the set temperature is increased by 0.5°C, and the maximum can be increased to 32.0°C.

3.2.5 Set temperature drop button

Touch , the set temperature is reduced by 0.5°C, and the minimum can be reduced to 16.0°C.

3.2.6 Left and right swing wind button

Touch , the left and right swing wind can be turned on or off. The icon color is darker when open, and the icon color is lighter when closed.

3.2.7 Up and down swing wind button

Touch , the up and down swing wind can be turned on or off. The icon color is darker when open and lighter when closed.

3.2.8 Timing button

Touch , you can enter the timing settings, the timing is divided into countdown timing and real-time timing. For details, refer to the description of the timing interface.

3.2.9 Remote lock button

Touch , the corresponding indoor unit cannot be controlled by the remote or the wired controller.

3.2.10 Mode lock button

Touch , the indoor unit will be locked in the current mode. If you modify other modes, the indoor unit will be turned off and cannot be turned on.

The control interface can check the status of the indoor unit. After the panel is not operated for 10 seconds, the status will be refreshed in real time. If the panel is operated, the status will not be refreshed within 10 seconds.

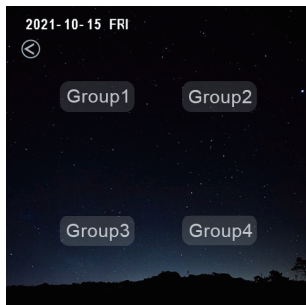
The control interface can control the indoor unit, switch on/off, mode, fan speed, temperature, remote lock and mode lock.

After pressing the OK button, it will display "Setting successful", the centralized controller will immediately send the current setting status to the unit, and the unit will respond to the current setting immediately. After the control is issued, the centralized controller will refresh the setting status within 15 seconds.

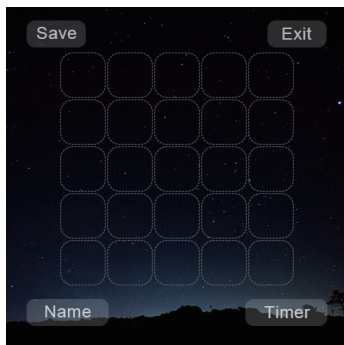
The control interface can also display the address and name of the indoor unit. When there is no renaming of the indoor unit, the address of the indoor unit will be displayed. When the renaming operation is performed, the name of the indoor unit will be displayed. The naming of the indoor unit has a power-down memory. Click on the indoor unit name to enter the indoor unit renaming interface, please refer to "other functions" for detailed operations.

3.3 Group Edit

After clicking group edit, it will jump to the selection page. There are 5 groups in the centralized controller, one of which is fixed as the general group, and the group members include all the indoor units under the centralized controller. The other four are optional groups, and you can freely choose and edit group members.



After selecting the group that needs to be edited, enter the member selection interface. The interface will display all the indoor units from 0 to 99 (whether online or not), and each page displays 25 indoor units. You can turn the page up and down by using the page key. You can freely select the indoor units that need to be added to the group. After clicking Save, it will display "Setup Successful", the group member information will be saved, and has the function of power failure data storage.

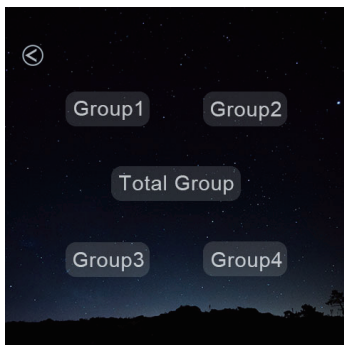


Click Name to jump to the rename interface. The rename interface can rename the selected indoor unit or group. The maximum length of English characters is 10, please refer to "other functions" for detailed operations.

Click Timer to jump to the timing interface, and you can set the weekly timing for the selected indoor unit or group, please refer to "other functions" for detailed operations.

3.4 Group Control

Click the group control to enter the group selection interface. There are 5 groups to choose from, one total group and four editable groups.



After selecting the group to be controlled, enter the control interface, as follows:

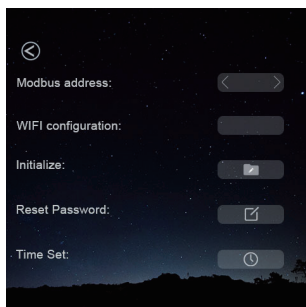


The group control interface can control the selected group. After selecting the corresponding switch, mode, wind speed, temperature, swing wind, lock, etc., touch the OK button, and it will display "Setting successfully", and the control command of the selected state will be issued to all online indoor units under the group. Each time you enter the control interface of the corresponding group, the state set last time will be displayed, and has the function of power failure data storage.

The group control interface can also display the current group or group name. When the group name is not set, the group number will be displayed. After the group name is set, the group name will be displayed. The group name can be remembered after power failure. Click the group name to enter the renaming interface, please refer to "other functions" for detailed operations.

3.5 ENG Control

The ENG Control interface is as shown below:



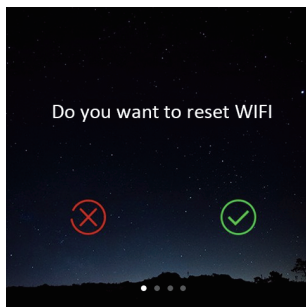
In the ENG Control interface, you can set the modbus address, configure WiFi and other operations.

Modbus address:

Click "<" and ">" to add or subtract modbus addresses, ranging from 1-64.

WIFI configuration:

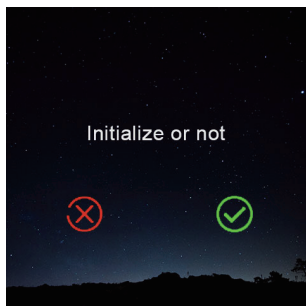
Click WIFI configuration to enter the WIFI configuration interface:



Click OK to reset the WiFi once (after pressing the OK key, WiFi will be reset), click Cancel to return to the ENG control interface. When the WiFi is connected or in sleep mode (the WiFi icon in the status bar is always on, off or flashing slowly), resetting the WiFi will make the module enter the config network mode (the WiFi icon in the status bar is flashing quickly), and then resetting the WiFi will make the WiFi switch between the config network configuration mode and the AP network configuration mode. Note: AP mode configuration is not supported for now, only the config mode is used. WiFi module configuration is detailed in the attachment.

initialize:

Click Initialize to enter the initialization configuration interface:

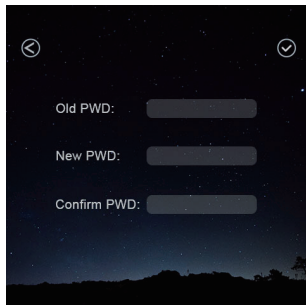


Press the OK key to enter the initialization, the display is initializing, press the exit will return to the ENG control interface. During the initial setting process, the initial weekly timing, modbus address, power-on password, indoor unit group name, the number of indoor units in each group, and the setting status of each group will be set.

Reset Password:

After 1 minute of inactivity, the centralized controller will lock the screen, and you need to enter the unlock password when it is turned on again. The initial password is "1234", and "1234" is also used as the administrator password, which is used to reset the password with the administrator password after the user forgets the password.

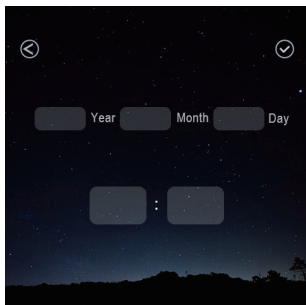
The reset password interface is as follows, you need to enter the current password, new password, and then confirm the new password again, press the OK key, after "Setting Successful" is displayed, the password has been set successfully.



Time Set:

The centralized controller has the RTC real-time clock function, which can still ensure the normal timing of the clock after the centralized controller is powered off. The real-time clock needs to be calibrated when powering on for the first time. Click the time set under the ENG control to enter the real-time clock calibration page. Enter the current year, month, day, hour and minute

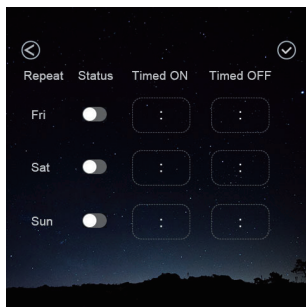
respectively, and then press the OK key, the display shows that the setting is successful, indicating that the time calibration is successful.

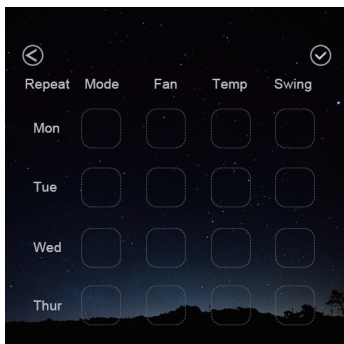


3.6 Other functions

Weekly timing:

The centralized controller has a weekly timing function for each indoor unit and group. You can click the timing button on the control interface to enter the weekly timing interface settings.



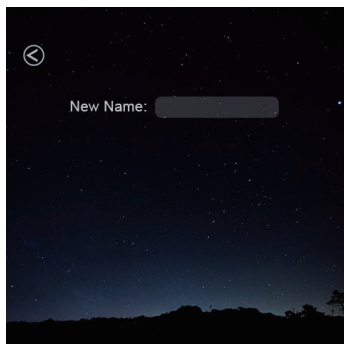


The weekly timing function can set the time of day from Monday to Sunday to turn on and off, the mode of turning on, fan speed, temperature, and swing wind. (0:00 means this time does not take effect) After setting the timing, press the OK key, and it will display that the setting is successful, indicating that the timing has been set. The weekly timing setting has the function of power failure data storage, the timing setting will not be cleared after the centralized controller is powered off, and it is still valid after the centralized controller is powered on.

Rename:

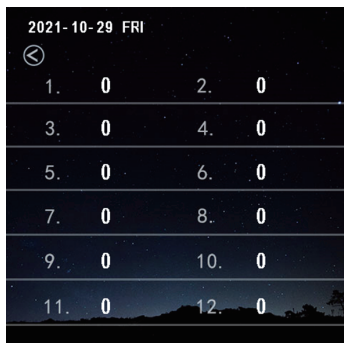
The centralized controller has the function of renaming the indoor unit or group. You can click the name (address) on the control interface to enter the renaming interface.

After entering the rename interface, enter the name you want to set, press the OK key, and the renaming will take effect after the display is set successful. If renaming with blank content means canceling the renaming, use the address display. Renaming has the function of power failure data storage, and the naming setting will not be lost after the centralized controller is powered off.



Parameter query:

In the control interface, you can click query to enter the parameter query interface:



Inquiry content:

Number	Parameter Description	Number	Parameter Description
1	Indoor unit type information	7	Indoor unit capacity demand
2	Room temperature T1	8	Timer ON
3	Evaporator temperature T2A	9	Timer OFF
4	Temperature of middle evaporator T2B	10	(reserved)
5	T3 temperature	11	(reserved)
6	Humidity(reserved)	12	(reserved)

Fault code description:

Display	Fault contents
E0	Phase sequence error or phase missing fault
E1	Indoor/outdoor communication fault
E2	T1 sensor fault
E3	T2A sensor fault
E4	T2B sensor fault
E5	Outdoor unit fault
E6	Zero passage detection error
E7	Indoor unit EEPROM error
E8	PG motor fan speed detection fault
E9	Communication fault between main board and display board
EA	Compressor overcurrent(four times)
EB	Inverter rrodule protection

Display	Fault contents
EC	Freshness fault
ED	Outdoor fault protection
EE	Water level detected fault
EF	Other faults

Attachment 1: WIFI module configuration

1.Download the App



Scan the QR code, download the App

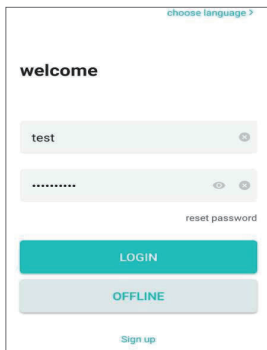
Note: After installing the App, please ask the factory for the account name and password. IOS users download SMANAGER on the App Store.

2. Preparations

- 2.1 A WiFi hotspot with Internet access;
- 2.2 A phone with Android 7.0(IOS 12.0) or higher version, installed with SMANAGER App;
- 2.3 Centralized Controller can communicate with outdoor unit successful-

3. Connection and use

- 3.1 Network configuration and device addition
 - 3.1.1 Click the OK button on the WIFI configuration interface of the centralized controller, and the WIFI icon in the status bar will enter a fast single flashing state;
 - 3.1.2 Mobile phone connects WiFi hotspot. (hotspot name can only consist of English letters, numbers of up to 32 characters, password can only consist of up to 64 characters.)
 - 3.1.3 Open S-manager App, enter user name and password to login.



choose language >

welcome

test

.....

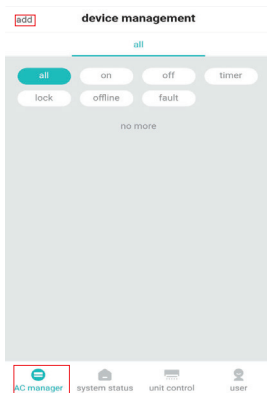
reset password

LOGIN

OFFLINE

[Sign up](#)

3.1.4 After successful login, click to "Device Management" and then click "Add" in the upper left corner to enter device network configuration.



add **device management**

all

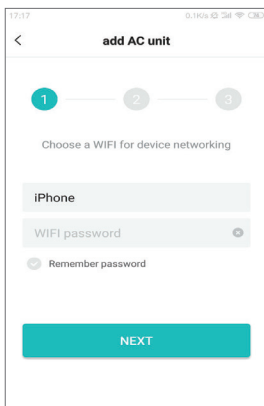
all on off timer

lock offline fault

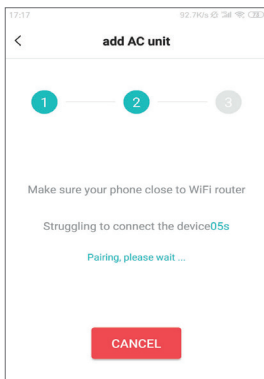
no more

AC manager system status unit control user

3.1.5 Fill in the name and password of the WiFi connected to the current mobile phone, and then click "Next", to make controller automatically connected to the WiFi.



3.1.6 Wait for network configuration to complete.



3.1.7 After the network configuration is completed, the App will show a prompt message. Click OK to enter the device information interface. After the network configuration is completed, the controller goes online, the OL light flashes once every 5 seconds, and the server is successfully

connection success

BSSID = d8bfc0c09e18, mac =
192.168.43.254

OK

3.1.8 The fields with * in front of the column names are required.

*Device name: Fill in according to the actual situation, for remarks (e.g. office building).

*Serial number: Fill in the serial number of IDU or ODU. If there is no such number, you can fill in the MAC of the current controller.

*Type: Click to select AMC (AMC is VRF).

*Customer: Select the corresponding customer account (customer account needs to be registered in advance).

*Installation address: Choose the right place.

*MAC address: Automatically filled in, no need to change after completing. Click Finish to confirm.

< add AC unit

1 2 3

Complete configuration
and improve equipment information

*AC unit name Please enter the device name

*series number Please enter the serial number

*type Please select device type

connected time Please select a date >

*sold by Please enter a customer name

Country China >

*installation address Please select the installation area >

detail address Please select a detailed address >

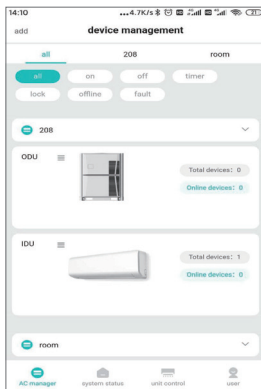
*gateway mac D8BFC0C09E18

3.2 Function instruction

S-manager App is provided with operation overview (reserved), units monitoring, indoor units control, personal center (reserved) functions.

3.2.1 Device management

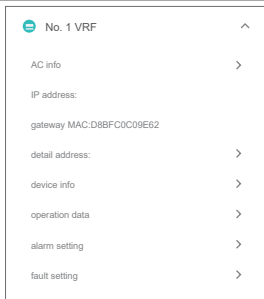
You can choose to display all the controller associated with the current account or display a single designated controller on the top selection bar. Select the property of the indoor unit under the controller list: "All", "On", "Off", "Timer", "Lockout", "Offline" and "Fault" to display the indoor units of the corresponding property separately. Click on the upper right corner to select the indoor units in batches, to rename, clear timing, clear lock, delete operations (only offline indoor units can be deleted).



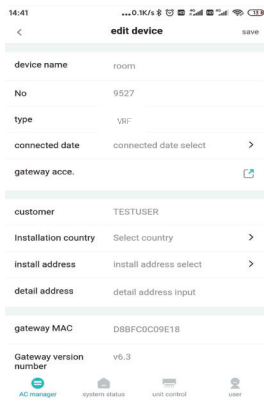
Click on IDU to expand the indoor unit list. The list can display the indoor unit name, running status, fault, offline, timing, lock status and setting temperature. Long press the icon for remote control, running reserved data, rename operation.



Click the name of the controller to expand the information of the controller.



Click on the AC info to view the details of the BOX and edit it again.



PS: The version V1.0 of the external machine list is reserved and there is no related function for the time being.

3.2.2 Indoor unit control

Click **"Choose"** in the upper left corner to switch the indoor unit to be controlled.

Click **"Group Control"** in the upper right corner to edit the indoor unit group and control the selected group. The control interface is the same as single unit control interface.

Click "Unit Control" below or long-press the IDU icon of the device management and click "Remote Control" to enter the indoor unit control interface.

The above shows the outdoor temperature (requires K1K2E connection), indoor temperature, and current status.

Click  to switch on or off the indoor unit.

In the ON state, click "**Mode**" to switch the running mode. The modes can be toggled among cooling, heating, dehumidification, and ventilation.

Click "**Fan Speed**" to toggle from high, medium, low wind.

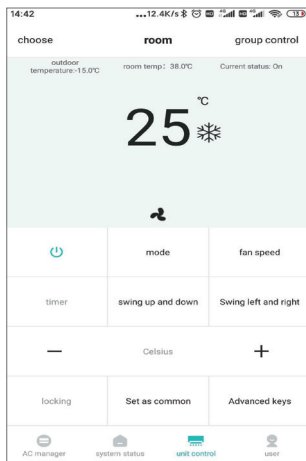
Click "**Swing Up and Down**" and "**Swing Left and Right**" to turn on or off the corresponding swing. (Note: Some indoor unit is not equipped with left or right swing, so they do not respond).

Click the "-" and "+" on the left and right sides to set temperature.

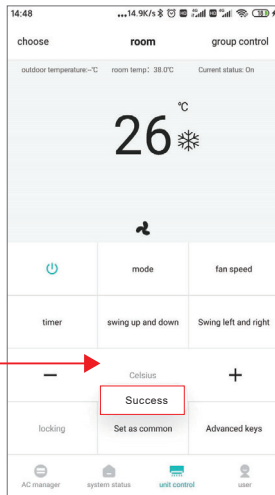
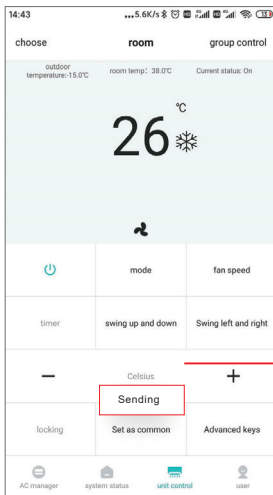
Click "shock" to enable or disable the key vibration feedback function.

The function of "**Set as Common**" sets the current indoor unit as commonly used, and displays this indoor unit each time when the indoor unit control is turned on. (This function is reserved).

The "**Advanced Key**" is reserved.



After the control command is sent, the control interface prompts "Sending".
After the control command is received, it prompts "Success".



Click **"Lock"** to enter the lock function setting.

In the lock setting interface, click on the right side of the indoor unit name

 and select whether to enable or disable the lock function.

Available time is for selecting when the lock will take effect.

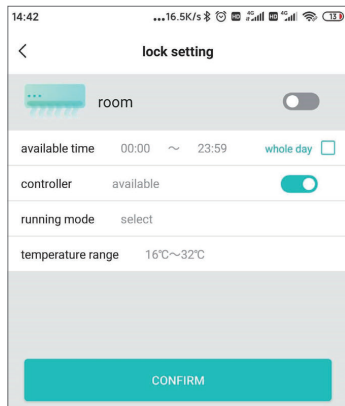
The controller is for selecting whether to enable the remote lock of the internal unit.

The mode lock is for selecting indoor unit limited operation mode, among cooling, dehumidification, heating, and ventilation.

The temperature range is for selecting the setting temperature for indoor unit limited operation.

After the above settings are selected, click OK to save the settings.

When the mode lock and locked temperature range are selected, the device will be restricted to operate at the setting values. If the range is exceeded, the server will control the indoor unit according to the setting values. The priority of the setting mode is from the highest to the lowest, cooling, dehumidifying, heating, and ventilating. Indoor unit can only be performed within the locked temperature range. If it is lower than the minimum value, it will run at the minimum value, if it is higher than the maximum value, it will run at the maximum value.



Click **"Timer"** to enter the timer function setting. You can view the existing timing on the timing interface. Click the timer to edit it again. Click  on the right to enable or disable this timer.

Click "+" at the top right of the timing control interface to create a new timing rule.

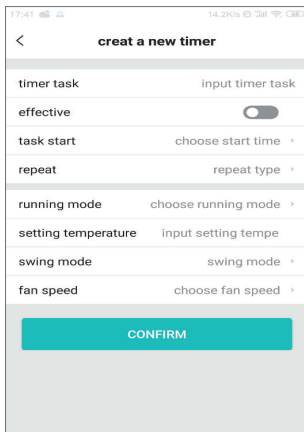
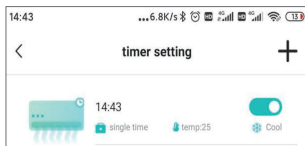
Enter the name of the timing task.

The switch control selects whether the timing is on or off. Start time is for setting the timing start time.

Effective date is for setting the the timer effective date;

Repeat method is for choosing among single, daily, weekday (Monday to Friday), custom (Monday to Sunday).

The mode, temperature, swing and wind speed can be set as required.



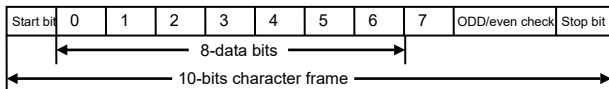
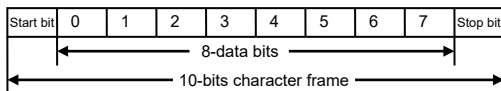
Attachment 2: Modbus protocol

1.1 Overview

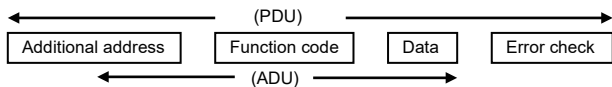
A. Use RTU type of ModBus protocol.

B. Use the R485 multi point bus master-slave structure, asynchronous half-duplex mode, data length 8 bits. Optional no parity bit, odd parity, and even parity (default no parity), the baud rate is 9600 bps.

1.2 Character Structure



1.3 MODBUS Data Frame



1.4 MODBUS Data Encoding

For example: send data 0x1234, first send 0x12, then 0x34.

1.5 MODBUS Address

1.5.1 [Read-only integer quantity] system information (operation function code: 0x04).

Input register/R

Paragraph 2 Information: System Information					
Base address: 0x2000					
Variable address = relative address + base address					
Relative address	Data name	remark			
0x00	The number of online indoor units	0-100 valid			
0x01	The status of the online indoor unit is 0	B0	Address #0 indoor unit	B8	Address #8 indoor unit
		B1	Address #1 indoor unit	B9	Address #9 indoor unit
		B2	Address #2 indoor unit	B10	Address #10 indoor unit
		B3	Address #3 indoor unit	B11	Address #11 indoor unit
		B4	Address #4 indoor unit	B12	Address #12 indoor unit
		B5	Address #5 indoor unit	B13	Address #13 indoor unit
		B6	Address #6 indoor unit	B14	Address #14 indoor unit
		B7	Address #7 indoor unit	B15	Address #15 indoor unit
		1- Online; 0 - Offline			
0x02	The status of the online indoor unit is 1	B0	Address #16 indoor unit	B8	Address #24 indoor unit
		B1	Address #17 indoor unit	B9	Address #25 indoor unit
		B2	Address #18 indoor unit	B10	Address #26 indoor unit
		B3	Address #19 indoor unit	B11	Address #27 indoor unit
		B4	Address #20 indoor unit	B12	Address #28 indoor unit
		B5	Address #21 indoor unit	B13	Address #29 indoor unit
		B6	Address #22 indoor unit	B14	Address #30 indoor unit
		B7	Address #23 indoor unit	B15	Address #31 indoor unit
		1- Online; 0 - Offline			
0x03	The status of the online indoor unit is 2	B0	Address #32 indoor unit	B8	Address #40 indoor unit
		B1	Address #33 indoor unit	B9	Address #41 indoor unit
		B2	Address #34 indoor unit	B10	Address #42 indoor unit
		B3	Address #35 indoor unit	B11	Address #43 indoor unit
		B4	Address #36 indoor unit	B12	Address #44 indoor unit
		B5	Address #37 indoor unit	B13	Address #45 indoor unit
		B6	Address #38 indoor unit	B14	Address #46 indoor unit
		B7	Address #39 indoor unit	B15	Address #47 indoor unit
		1- Online; 0 - Offline			
0x04	The status of the online indoor unit is 3	B0	Address #48 indoor unit	B8	Address #56 indoor unit
		B1	Address #49 indoor unit	B9	Address #57 indoor unit
		B2	Address #50 indoor unit	B10	Address #58 indoor unit
		B3	Address #51 indoor unit	B11	Address #59 indoor unit
		B4	Address #52 indoor unit	B12	Address #60 indoor unit
		B5	Address #53 indoor unit	B13	Address #61 indoor unit
		B6	Address #54 indoor unit	B14	Address #62 indoor unit
		B7	Address #55 indoor unit	B15	Address #63 indoor unit

0x05	The status of the online indoor unit is 4	B0	Address #64 indoor unit	B8	Address #72 indoor unit
		B1	Address #65 indoor unit	B9	Address #73 indoor unit
		B2	Address #66 indoor unit	B10	Address #74 indoor unit
		B3	Address #67 indoor unit	B11	Address #74 indoor unit
		B4	Address #68 indoor unit	B12	Address #76 indoor unit
		B5	Address #69 indoor unit	B13	Address #77 indoor unit
		B6	Address #70 indoor unit	B14	Address #78indoor unit
		B7	Address #71 indoor unit	B15	Address #79 indoor unit
		1- Online; 0 - Offline			
0x06	The status of the online indoor unit is 5	B0	Address #80 indoor unit	B8	Address #88 indoor unit
		B1	Address #81 indoor unit	B9	Address #89 indoor unit
		B2	Address #82 indoor unit	B10	Address #90 indoor unit
		B3	Address #83 indoor unit	B11	Address #91 indoor unit
		B4	Address #84 indoor unit	B12	Address #92 indoor unit
		B5	Address #85 indoor unit	B13	Address #93 indoor unit
		B6	Address #86 indoor unit	B14	Address #94 indoor unit
		B7	Address #87 indoor unit	B15	Address #95 indoor unit
		1- Online; 0 - Offline			
0x07	The status of the online indoor unit is 6	B0	Address #96 indoor unit	B8	Reserved
		B1	Address #97 indoor unit	B9	Reserved
		B2	Address #98 indoor unit	B10	Reserved
		B3	Address #99 indoor unit	B11	Reserved
		B4	Reserved	B12	Reserved
		B5	Reserved	B13	Reserved
		B6	Reserved	B14	Reserved
		B7	Reserved	B15	Reserved
		1- Online; 0 - Offline			
0x08—0x0F (reserved).					
0x10	Number of indoor units turned on	0-100 valid			
0x11	The status of indoor units power-on is 0	B0	Address #0 indoor unit	B8	Address #8 indoor unit
		B1	Address #1 indoor unit	B9	Address #9 indoor unit
		B2	Address #2 indoor unit	B10	Address #10 indoor unit
		B3	Address #3 indoor unit	B11	Address #11 indoor unit
		B4	Address #4 indoor unit	B12	Address #12 indoor unit
		B5	Address #5 indoor unit	B13	Address #13 indoor unit
		B6	Address #6 indoor unit	B14	Address #14 indoor unit
		B7	Address #7 indoor unit	B15	Address #15 indoor unit
		1 – turn on; 0 – turn off			

0x12	The status of indoor units power-on is 1	B0	Address #16 indoor unit	B8	Address #24 indoor unit
		B1	Address #17 indoor unit	B9	Address #25 indoor unit
		B2	Address #18 indoor unit	B10	Address #26 indoor unit
		B3	Address #19 indoor unit	B11	Address #27 indoor unit
		B4	Address #20 indoor unit	B12	Address #28 indoor unit
		B5	Address #21 indoor unit	B13	Address #29 indoor unit
		B6	Address #22 indoor unit	B14	Address #30 indoor unit
		B7	Address #23 indoor unit	B15	Address #31 indoor unit
		1 – turn on; 0 – turn off			
0x13	The status of indoor units power-on is 2	B0	Address #32 indoor unit	B8	Address #40 indoor unit
		B1	Address #33 indoor unit	B9	Address #41 indoor unit
		B2	Address #34 indoor unit	B10	Address #42 indoor unit
		B3	Address #35 indoor unit	B11	Address #43 indoor unit
		B4	Address #36 indoor unit	B12	Address #44 indoor unit
		B5	Address #37 indoor unit	B13	Address #45 indoor unit
		B6	Address #38 indoor unit	B14	Address #46 indoor unit
		B7	Address #39 indoor unit	B15	Address #47 indoor unit
		1 – turn on; 0 – turn off			
0x14	The status of indoor units power-on is 3	B0	Address #48 indoor unit	B8	Address #56 indoor unit
		B1	Address #49 indoor unit	B9	Address #57 indoor unit
		B2	Address #50 indoor unit	B10	Address #58 indoor unit
		B3	Address #51 indoor unit	B11	Address #59 indoor unit
		B4	Address #52 indoor unit	B12	Address #60 indoor unit
		B5	Address #53 indoor unit	B13	Address #61 indoor unit
		B6	Address #54 indoor unit	B14	Address #62 indoor unit
		B7	Address #55 indoor unit	B15	Address #63 indoor unit
		1 – turn on; 0 – turn off			
0x15	The status of indoor units power-on is 4	B0	Address #64 indoor unit	B8	Address #72 indoor unit
		B1	Address #65 indoor unit	B9	Address #73 indoor unit
		B2	Address #66 indoor unit	B10	Address #74 indoor unit
		B3	Address #67 indoor unit	B11	Address #74 indoor unit
		B4	Address #68 indoor unit	B12	Address #76 indoor unit
		B5	Address #69 indoor unit	B13	Address #77 indoor unit
		B6	Address #70 indoor unit	B14	Address #78 indoor unit
		B7	Address #71 indoor unit	B15	Address #79 indoor unit
		1 – turn on; 0 – turn off			

0x16	The status of indoor units power-on is 5	B0	Address #80 indoor unit	B8	Address #88 indoor unit
		B1	Address #81 indoor unit	B9	Address #89 indoor unit
		B2	Address #82 indoor unit	B10	Address #90 indoor unit
		B3	Address #83 indoor unit	B11	Address #91 indoor unit
		B4	Address #84 indoor unit	B12	Address #92 indoor unit
		B5	Address #85 indoor unit	B13	Address #93 indoor unit
		B6	Address #86 indoor unit	B14	Address #94 indoor unit
		B7	Address #87 indoor unit	B15	Address #95 indoor unit
		1 – turn on; 0 – turn off			
0x17	The status of indoor units power-on is 6	B0	Address #96 indoor unit	B8	Reserved
		B1	Address #97 indoor unit	B9	Reserved
		B2	Address #98 indoor unit	B10	Reserved
		B3	Address #99 indoor unit	B11	Reserved
		B4	Reserved	B12	Reserved
		B5	Reserved	B13	Reserved
		B6	Reserved	B14	Reserved
		B7	Reserved	B15	Reserved
		1 – turn on; 0 – turn off			
0x18—0x1F (reserved).					
0x20	The number of indoor unit failures	0-63 valid			
0x21	The status of indoor units fault is 0	B0	Address #0 indoor unit	B8	Address #8 indoor unit
		B1	Address #1 indoor unit	B9	Address #9 indoor unit
		B2	Address #2 indoor unit	B10	Address #10 indoor unit
		B3	Address #3 indoor unit	B11	Address #11 indoor unit
		B4	Address #4 indoor unit	B12	Address #12 indoor unit
		B5	Address #5 indoor unit	B13	Address #13 indoor unit
		B6	Address #6 indoor unit	B14	Address #14 indoor unit
		B7	Address #7 indoor unit	B15	Address #15 indoor unit
		1 - malfunction; 0 - Normal			
0x22	The status of indoor units fault is 1	B0	Address #16 indoor unit	B8	Address #24 indoor unit
		B1	Address #17 indoor unit	B9	Address #25 indoor unit
		B2	Address #18 indoor unit	B10	Address #26 indoor unit
		B3	Address #19 indoor unit	B11	Address #27 indoor unit
		B4	Address #20 indoor unit	B12	Address #28 indoor unit
		B5	Address #21 indoor unit	B13	Address #29 indoor unit
		B6	Address #22 indoor unit	B14	Address #30 indoor unit
		B7	Address #23 indoor unit	B15	Address #31 indoor unit
		1 - malfunction; 0 - Normal			

0x23	The status of indoor units fault is 2	B0	Address #32 indoor unit	B8	Address #40 indoor unit
		B1	Address #33 indoor unit	B9	Address #41 indoor unit
		B2	Address #34 indoor unit	B10	Address #42 indoor unit
		B3	Address #35 indoor unit	B11	Address #43 indoor unit
		B4	Address #36 indoor unit	B12	Address #44 indoor unit
		B5	Address #37 indoor unit	B13	Address #45 indoor unit
		B6	Address #38 indoor unit	B14	Address #46 indoor unit
		B7	Address #39 indoor unit	B15	Address #47 indoor unit
		1 - malfunction; 0 - Normal			
0x24	The status of indoor units fault is 3	B0	Address #48 indoor unit	B8	Address #56 indoor unit
		B1	Address #49 indoor unit	B9	Address #57 indoor unit
		B2	Address #50 indoor unit	B10	Address #58 indoor unit
		B3	Address #51 indoor unit	B11	Address #59 indoor unit
		B4	Address #52 indoor unit	B12	Address #60 indoor unit
		B5	Address #53 indoor unit	B13	Address #61 indoor unit
		B6	Address #54 indoor unit	B14	Address #62 indoor unit
		B7	Address #55 indoor unit	B15	Address #63 indoor unit
		1 - malfunction; 0 - Normal			
0x25	The status of indoor units fault is 4	B0	Address #64 indoor unit	B8	Address #72 indoor unit
		B1	Address #65 indoor unit	B9	Address #73 indoor unit
		B2	Address #66 indoor unit	B10	Address #74 indoor unit
		B3	Address #67 indoor unit	B11	Address #74 indoor unit
		B4	Address #68 indoor unit	B12	Address #76 indoor unit
		B5	Address #69 indoor unit	B13	Address #77 indoor unit
		B6	Address #70 indoor unit	B14	Address #78 indoor unit
		B7	Address #71 indoor unit	B15	Address #79 indoor unit
		1 - malfunction; 0 - Normal			
0x26	The status of indoor units fault is 5	B0	Address #80 indoor unit	B8	Address #88 indoor unit
		B1	Address #81 indoor unit	B9	Address #89 indoor unit
		B2	Address #82 indoor unit	B10	Address #90 indoor unit
		B3	Address #83 indoor unit	B11	Address #91 indoor unit
		B4	Address #84 indoor unit	B12	Address #92 indoor unit
		B5	Address #85 indoor unit	B13	Address #93 indoor unit
		B6	Address #86 indoor unit	B14	Address #94 indoor unit
		B7	Address #87 indoor unit	B15	Address #95 indoor unit
		1 - malfunction; 0 - Normal			

0x27	The status of indoor units fault is 6	B0	Address #96 indoor unit	B8	Reserved
		B1	Address #97 indoor unit	B9	Reserved
		B2	Address #98 indoor unit	B10	Reserved
		B3	Address #99 indoor unit	B11	Reserved
		B4	Reserved	B12	Reserved
		B5	Reserved	B13	Reserved
		B6	Reserved	B14	Reserved
		B7	Reserved	B15	Reserved
		1 - malfunction; 0 - Normal			
0x28—0x F F(reserved)					

1.5.2 [Read-only integer quantity] Nth (0~63) indoor unit information (operation function code: 0x04).

Input register/R

The third paragraph of information: the information of the unit machine		
Base address: 0x2100, maximum data volume of machines within each address: 16.		
Variable address = relative address + base address		
Relative address	Data name	remark
#00 Address of the indoor unit		
0x00	Model information	
0x01	Power on and off status	0: Turn off; 1 Turn on
0x02	Runtime mode	1: Air supply; 2: Refrigeration; 3: heating; 4: Dehumidification; 5: Automatic
0x03	wind velocity	1: High wind; 2: Middle wind; 3: Low wind; 4: Little wind; 5: Automatic wind
0x04	Set the temperature	16~32 means 16~32°C,
0x05	Indoor temperature T1	Actual temperature *10, signed number
0x06	Evaporator tube temperature T2A	Actual temperature *10, signed number
0x07	The middle tube temperature of the evaporation tube is T2B	Actual temperature *10, signed number
0x08	Timed power-on time	0~96 means no timed ~ 24 hours timing (Time On Hours = Data/4).
0x09	Timed power-off time	0~96 means no timed ~ 24 hours timing (Time Off Hours = Data/4).

0x0A	Accessibility status	B0	Economic operation 1: on, 0: off	B8	Horizontal pendulum
		B1	Electric heating 1: on, 0: off	B9	Add water
		B2	Swing 1: On, 0: Off	B10	Drain pump
		B3	Ventilation 1: on, 0: off	B11	retain
		B4	Freshen	B12	00: Lock shutdown or no lock
		B5	Humidification	B13	01: Lock refrigeration 10: Lock heating 11: Lock ventilation
		B6	Oxygenation	B14	Mode lock
		B7	Drying function	B15	Remote locked
0x0B	fault	B0	E0 Phase sequence error or phase missing fault	B8	E8 PG motor fan speed detection fault
		B1	E1 communication failure	B9	E9 Communication fault between main board and display board
		B2	E2 T1 sensor failure	B10	EA Compressor overcurrent(four times)
		B3	E3 T2A sensor failure	B11	EB Inverter module protection
		B4	E4 T2B sensor failure	B12	EC Freshness fault
		B5	E5 T3 or T4 or digital compressor exhaust temperature sensor failure	B13	ED Outdoor fault protection
		B6	E6 Zero passage detection error	B14	EE water level detection failure
		B7	E7 Indoor unit EEPROM error	B15	EF Other failures
0x0C	protection	B0	P0 Evaporator temperature protection	B8	P8 Reserved
		B1	P1 Protection against cold wind or defrost	B9	P9 Reserved
		B2	P2 Reserved	B10	PA Reserved
		B3	P3 Reserved	B11	PB Reserved
		B4	P4 Reserved	B12	PC Reserved
		B5	P5 Reserved	B13	PD Reserved
		B6	P6 Reserved	B14	PE Reserved
		B7	P7 Reserved	B15	PF Other protection

0x0D	Power consumption	Unit 0.1 hp
0x0E	Indoor units ability need	The actual energy needs x10
0x0F—0x1F (reserved).		
#01 Address of the indoor unit		
0x20	Model information	
0x21	Power on and off status	
0x22	Set the operating mode	
0x23	Set the wind speed	
0x24	Set the temperature	
0x25	Indoor temperature T1	
0x26	Evaporator tube temperature T2A	
0x27	Tube temperature T2B in the middle of the evaporation tube	
0x28	Scheduled boot time	
0x29	Scheduled shutdown time	
0x2A	Accessibility status	
0x2B	fault	
0x2C	protection	
0x2D	Power consumption	
0x2E	Indoor units ability needs	
0x2F—0x3F (reserved).		
#n the address of indoor unit		
n*0x20 + 0x00	Model information	
n*0x20 + 0x01	Power on and off status	
n*0x20 + 0x02	Set the operating mode	
n*0x20 + 0x03	Set the wind speed	
n*0x20 + 0x04	Set the temperature	
n*0x20 + 0x05	Indoor temperature T1	
n*0x20 + 0x06	Evaporator tube temperature T2A	
n*0x20 + 0x07	Tube temperature T2B in the middle of the evaporation tube	
n*0x20 + 0x08	Scheduled boot time	

n*0x20 + 0x09	Scheduled shutdown time	
n*0x20 + 0x0A	Accessibility status	
n*0x20 + 0x0B	fault	
n*0x20 + 0x0C	protection	
n*0x20 + 0x0D	Power consumption	
n*0x20 + 0x0E	Indoor units ability needs	
n*0x20 + 0x0F — n*0x20 + 0x1F(预留)		
#99 the address of indoor unit		
0xC60	Model information	
0xC61	Power on and off status	
0xC62	Set the operating mode	
0xC63	Set the wind speed	
0xC64	Set the temperature	
0xC65	Indoor temperature T1	
0xC66	Evaporator tube temperature T2A	
0xC67	Tube temperature T2B in the middle of the evaporation tube	
0xC68	Scheduled boot time	
0xC69	Scheduled shutdown time	
0xC6A	Accessibility status	
0xC6B	fault	
0xC6C	protection	
0xC6D	Power consumption	
0xC6E	Indoor units ability needs	
0xC6F – 0xC7F (reserved).		

1.5.3 [Write integer quantity] control parameters (operation function code: write 0x06 or 0x10).

Holding registers (W/R)

Paragraph 5 information: Unit in-unit information		
Base address: 0x3000, data volume of units in each address: 16.		
Variable address = relative address + base address		
Relative address	Data name	remark
#00 the address of indoor unit		
0x00	Power on and off status	0: Turn off; 1 Turn on
0x01	Set the runtime mode	1: Air supply; 2: Refrigeration; 3: heating; 4: Dehumidification; 5: Automatic mode

0x02	Set the wind speed	1: High wind; 2: Middle wind; 3: Low wind; 4: Little wind; 5: Automatic wind			
0x03	Set the temperature	16~32 means 16~32℃, Other data do not change the original setting			
0x04	Timed power -on time	--- (write invalid)			
0x05	Timed power -off time	--- (write invalid)			
0x06	Accessibility status	B0	Economic operation 1: on, 0: off	B8	Reserved
		B1	Electric heating 1: on, 0: off	B9	Reserved
		B2	Swing 1: On, 0: Off	B10	Reserved
		B3	Reserved	B11	Reserved
		B4	Reserved	B12	Reserved
		B5	Reserved	B13	Reserved
		B6	Reserved	B14	Mode lock
		B7	Reserved	B15	Remote locked
0x07—0x0F (reserved).					
#01 Address within the machine					
0x10	Power on and off				
0x11	Set the runtime mode				
0x12	Set the wind speed				
0x13	Set the temperature				
0x14	Timed power -on time				
0x15	Timed power -off time				
0x16	Accessibility status				
0x17—0x1F (reserved).					
#n the internal machine of the address					
n*16	Power on and off				
n*16+1	Set the runtime mode				
n*16+2	Set the wind speed				
n*16+3	Set the temperature				
n*16+4	Timed power -on time				
n*16+5	Timed power -off time				
n*16+6	Accessibility status				
(n*16+7)~(n*16+15)(reserved)					

#99 Address within the machine		
0x630	Power on and off	
0x631	Set the runtime mode	
0x632	Set the wind speed	
0x633	Set the temperature	
0x634	Timed power -on time	
0x635	Timed power -off time	
0x636	Accessibility status	
0x637--0x63F (reserved).		

Holding registers (W/R)

The fourth paragraph of information: group control information		
Base address: 0x4000, the amount of data in each address: 16.		
Variable address = relative address + base address		
Relative address	Data name	remark
Group control #0-#63 address internal machine		
0x00	Power on and off	0: Turn off; 1 Turn on
0x01	Set the runtime mode	1: Air supply; 2: Refrigeration; 3: heating; 4: Dehumidification; 5: Automatic
0x02	Set the wind speed	1: High wind; 2: Middle wind; 3: Low wind; 4: Little wind; 5: Automatic wind
0x03	Set the temperature	16~32 means 16~32°C, Other data do not change the original setting
0x04	Timed power -on time	--- (write invalid)
0x05	Timed power -off time	--- (write invalid)
0x06	Accessibility status	
0x06--0x0F (reserved).		

Packing List

Number	Name	Quantity
1	Centralized Controller (Touch Screen)	1
2	Manual (Centralized Controller)	1
3		
4		
5		