GREE

Change for life

Owner's Manual

Original Instructions

Wired Controller XK55

Thank you for choosing this product. Please read this Owner's Manual carefully before operation and retain it for future reference.

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@gree.com.cn for the electronic version.

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

To Users

Thank you for selecting Gree's product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

(1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsibility for their safety. Children should be supervised to ensure that they do not play with the appliance.

(2) This instruction manual is a universal manual, some functions are only applicable to particular product. All the illustrations and information in the instruction manual are only for reference, and control interface should be subject to actual operation.

(3) In order to make the product better, we will continuously conduct improvement and innovation. We have the right to make necessary revision to the product from time to time due to the reason of sales or production, and reserve the right to revise the contents without further notice.

(4) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging, unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.

Contents

1 Safety Notices (Please be sure to abide them)

WARNING: If not abide them strictly, it may cause severe damage to the unit or the people.

NOTE: If not abide them strictly, it may cause slight or medium damage to the unit or the people.

This sign indicates that the items operation must be prohibited. Improper operation may cause severe damage or death to people.

This sign indicates that the items must be observed. Improper operation may cause damage to people or property.

WARNING!

This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for the above special places, please adopt special air conditioner with anti-corrosive or anti-explosion function.

2 Operation Notices

◆ The power supply for all indoor units must be unified.

◆ Prohibit installing the wired controller at wet or sunshine places.

◆ Do not knock, throw or frequently disassemble the wired controller.

◆ Do not operate the wired controller with wet hands.

◆ In one system network, you must set one indoor unit as the master indoor unit, Other indoor units are slave indoor units.

◆ The operation mode of the system is basing on that of master indoor unit. Master indoor unit can switch to any modes, while slave unit can't switch to the mode that is conflicting with master indoor unit.

◆ When master indoor unit changes mode which cause operation mode of slave indoor unit conflicts with that of system, the operation mode of slave unit will switch to the operate mode of system automatically.

◆ When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.

◆ Functions with "*" are optional for indoor units. If a function is not included in an indoor unit, wired controller can't set the function, or setting of this function is invalid to the indoor unit.

3 Display Instructions

3.1 Appearance and Display
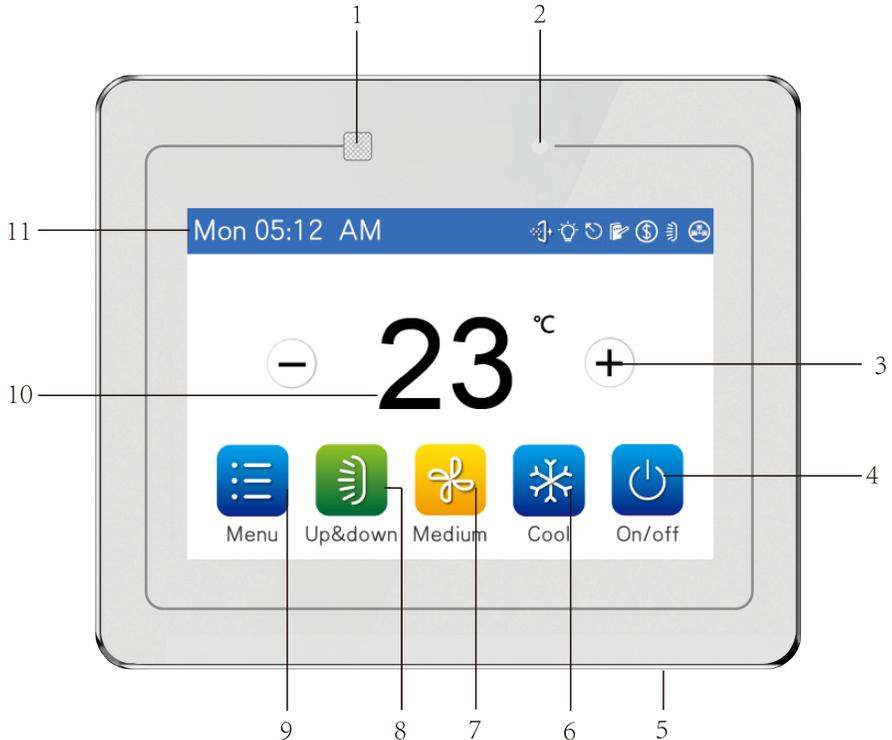
Fig 3.1 Appearance of wired controller

3

Table 3.1 Appearance description

No.	Name	Description
1	Remote control signal receiver	It is used to receive the remote control signal.
2	LED indicator	Red indicates unit off; white indicates unit on.
3	Temperature adjustment	It is used to adjust the set temperature.
4	On/off	It is used to switch the unit on or off.
5	Touch button	Short-press this button to turn on/off the backlight; long-press for 5 seconds to reset the touch screen.
6	Mode	It is used to switch the operation mode of the air conditioner.
7	Fan speed	It is used to change the fan speed of the air conditioner.
8	Up & down swing	It is used to turn on/off the up & down swing.
9	Menu	It is used to enter the next page.
10	Temperature display	It displays the set temperature.
11	Status	It displays the time and the enabled functions.

3.2 Icons

Table 3.2 Icons in the status bar

Modes (The selectable modes are subject to the working indoor unit.)			
Icon	Meaning	Icon	Meaning
Ⓐ	Auto*	❄	Cooling
♨	Drying	✿	Fan only
☀	Heating	♨	Floor heating*
☀	3D heating	🏠	Heat supply*

4

Functions, status			
Icon	Meaning	Icon	Meaning
	Air exchange*		Access card removed
	Filter cleaning		Malfunction
	Auxiliary heating*		Light
	Healthy*		Left & right swing
	Absence		Mute
	Power-off memory		Master indoor unit
	Energy-saving		Shield
	Subsidiary wired controller		Sleep
	Timer		Up & down swing
	X-fan		Group control
	Save		Defrosting

4 Wired Controller Installation and Commissioning

Unit: mm
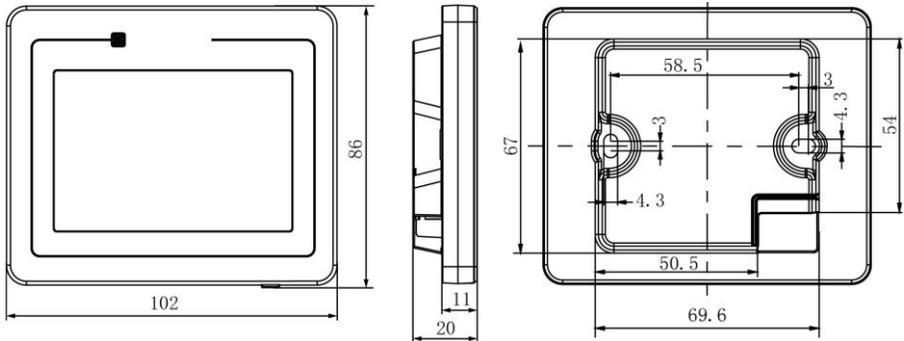
Fig 4.1 Dimensions of wired controller
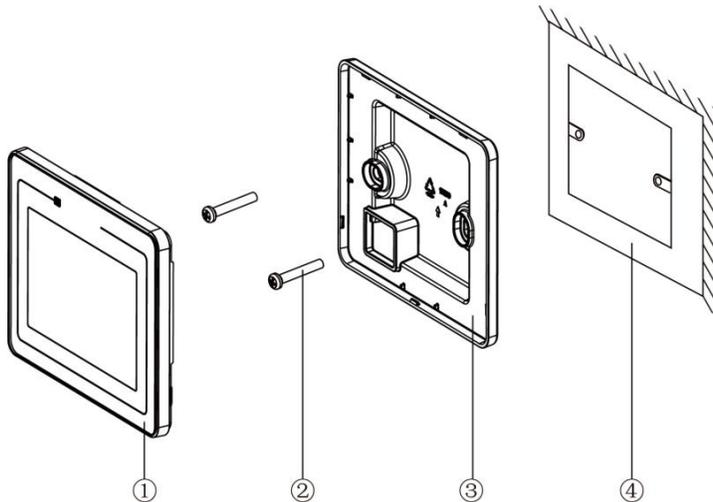
Fig 4.2 Parts of wired controller

No.	①	②	③	④
Name	Wired controller panel	Screw M4×25	Wired controller base	Wiring box that is mounted on the wall
QTY	1 pc	2 pc	1 pc	Prepared by the user

4.1 Wired Controller Installation

4.1.1 Selection requirements for communication cable
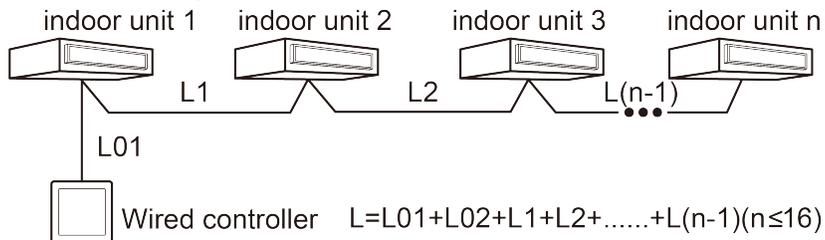
Fig 4.3 Length of communication cable

Wire material type	Total length of communication line between indoor unit and wired controller L (m/feet)	Wire size (mm^2/AWG)	Material standard	Remarks
Light/ Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤100m (L≤328feet)	2×0.75 mm^2~2× 1.25 mm^2 (2×AWG18~ 2×AWG16)	IEC 60227-5:20 07	(1) Total length of communication line can't exceed 100m (328feet). (2) The cord shall be Circular cord (the cores shall be twisted together). (3) If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

⓵ NOTES:

① If the air conditioners are installed in a place with strong magnetic interference, the communication cable of wired controller must be the shielded twisted pairs.

② The communication cable of the wired controller must be selected according to the requirements in this manual. It is strictly prohibited to choose the communication cable that does not meet the requirements in this manual.

4.1.2 Installation requirements

(1) Never install the wired controller in a humid place.

(2) Never install the wired controller under direct sunlight.

(3) Never install the wired control near a hot object or in a place prone to splashing water.

(4) Never install the wired controller in a place facing the window to avoid the unit from working abnormally due to the interference of the neighboring wired controller of the same model.

4.1.3 Wiring requirements

There are two methods to connect the wired controller to the indoor units.
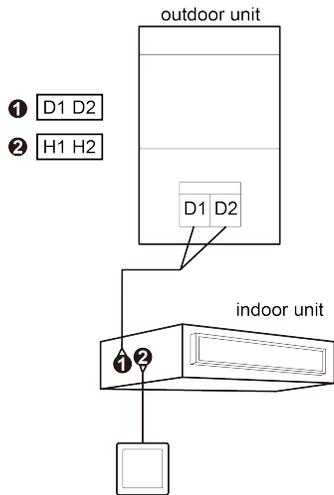
Fig 4.4 One wired controller controls one indoor unit
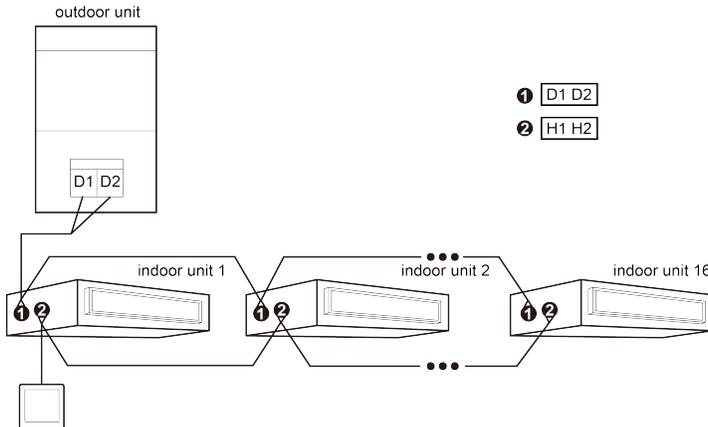
Fig 4.5 One wired controller controls multiple indoor units

Wiring instructions:

(1) When one wired controller is to control multiple indoor units, it can be connected to any one indoor unit, but the connected indoor units must be the same series indoor units. The wired controller can control a maximum of 16 indoor units, which must be within the same network. The wired controller should be configured with the number of indoor units in group control. Please refer to section 4.2.2 for the configuration method.

(2) When one wired controller is to control multiple indoor units, the settings of the units under control should be the same.

(3) The wiring network of the wired controller and indoor units must be in accordance with Fig 4.4 or Fig 4.5.

11

NOTES:

① The series of indoor units include:

② Multi VRF indoor units;

③ Fresh air indoor units;

④ Dual heat sources indoor units;

⑤ Packaged units; indoor units except fresh air indoor units, dual heat sources indoor units and packaged units are classified as multi VRF units.

4.1.4 Installation
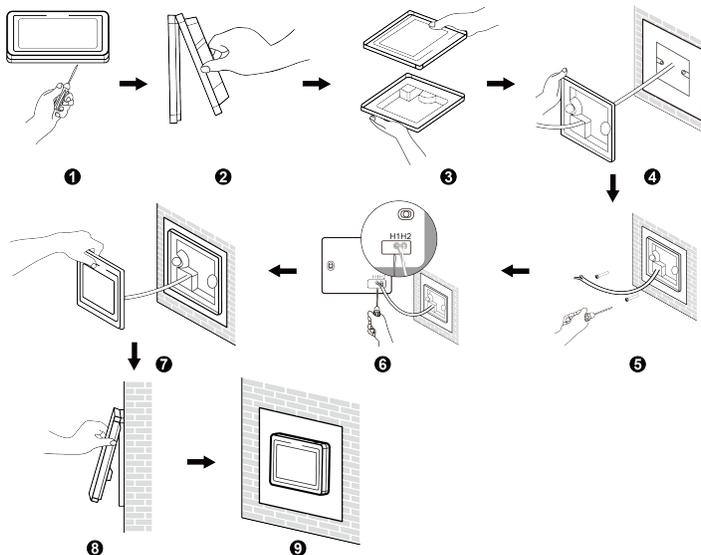
Fig 4.6 Diagram of wired controller installation

Fig 4.6 shows the simple way to install the wired controller. Please pay attention to the following matters:

① Before installing the product, cut off the power supply of the indoor unit. Power must be off during the whole installation process.

② Pull out the two-core twisted-pair wire in the wall mounting hole, and pass this wire through the wiring hole at the back of the base of the wired controller.

③ Attach the base of the wired controller to the wall, and fix the base with the wall mounting hole with screws M4 × 25.

④ Connect the two-core twisted-pair wire that passes through to the H1 and H2 terminals, and tighten the screws.

⑤ Fasten the wired controller panel and the wired controller base together to complete the installation.

4.1.5 Removal
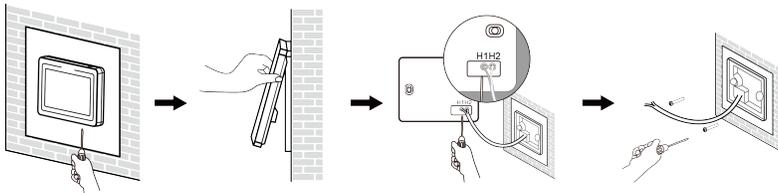
Fig 4.7 Diagram of wired controller removal

NOTE:

Please use a flat-blade screwdriver when removing the wired controller, so as to pry open the panel and base of the wired controller.

4.2 Commissioning

4.2.1 Parameter inquiry

You can view the unit's parameters whether the unit is on or off.

Press "Menu" on the home page and then select "Parameter Inquiry" to enter the page of parameter inquiry, as shown below:

<	Parameter View	
Unit Information ⬦	Sys ParaView ⬦
IDU ParamView ⬦	IDU Error Log ⬦
IDU Barcode ⬦	Error IDU Place ⬦
1-Key View No. ⬦	ODU ParamView ⬦
ODU Error Log ⬦	Service Info ⬦
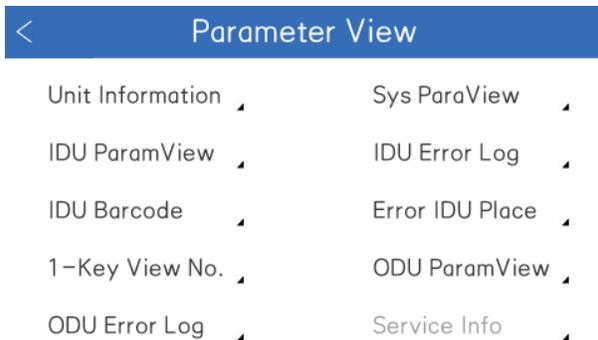
Fig 4.8 List of parameter inquiry

- Press ⬦ to enter the page of the corresponding inquiry to view the details.
- Press < to return to the previous page.

4.2.1.1 System parameter inquiry

<	System Parameter View

No.	Parameter Name	Parameter
1	IDU Number of Group Control	1
2	Master IDU Project NO.	1
3	Filter Clean Time	220Day(s)
4	CAN1 Network IDU Number	2
5	CAN2 Network Address	--

◁ 1/2 ▷

Fig 4.9 System parameter inquiry

Table 4.1 List of system parameter inquiry

Parameter name	Display scope	Parameter name	Display scope
Number of indoor units in group control	1~16	Project code of the master indoor unit	1~255
The time for filter cleaning reminding	4~416 days	Number of indoor units in CAN1 network	1~100
CAN2 network number	1~255	Upper limit of outdoor unit capacity ratio	135%, 150%, 110%
Cooling and heating functions of the entire unit	Cooling only, heating only, cooling and heating, fan only	Address of wired controller	1, 2

4.2.1.2 Indoor unit parameter inquiry
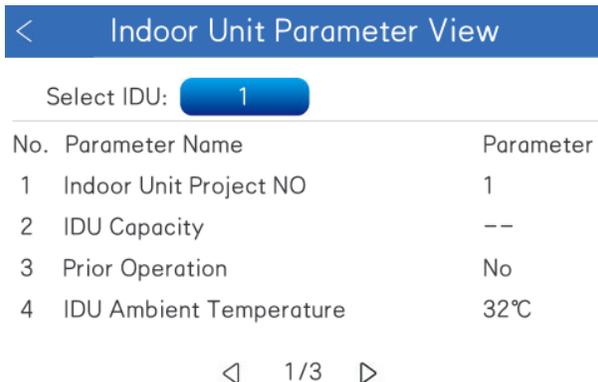
Fig 4.10 Indoor unit parameter inquiry

It is used to view the parameters of the corresponding online indoor unit.

- Press $<$ to return to the previous page;
- Press 1 to enter the page of indoor unit selection and select an indoor unit.

Table 4.2 List of indoor unit parameter inquiry

Parameter name	Display scope	Parameter name	Display scope
Project code of indoor unit, location of the faulty indoor unit	1~255	Indoor unit capacity	Actual value
Operation priority	Yes, no	Temperature of indoor unit ambient temperature sensor	-9~99℃

16

Parameter name	Display scope	Parameter name	Display scope
Temperature of inlet tube temperature sensor	-9~99℃	Temperature of outlet tube temperature sensor	-9~99℃
Opening of indoor unit electronic expansion valve	0~20	Indoor relative humidity	20%~90%
Air discharge temperature of fresh air indoor unit	-9~99℃	—	—

4.2.1.3 Outdoor unit parameter inquiry
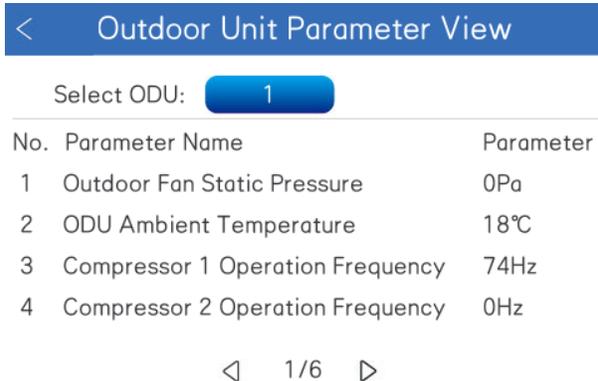
Fig 4.11 Outdoor unit parameter inquiry

It is used to view the parameters of the corresponding online outdoor unit.

- Press `<` to return to the previous page;
- Press `1` to enter the page of outdoor unit selection and select an outdoor unit.

17

Table 4.3 List of outdoor unit parameter inquiry

Parameter name	Display scope	Parameter name	Display scope
Outdoor unit static pressure setting	0, 20, 50, 80 (Pa)	Outdoor temperature	-30~139℃
Compressor 1 running frequency	0~200Hz	Compressor 2 running frequency	0~200Hz
Compressor 3 running frequency	0~200Hz	Outdoor fan running frequency	0~100Hz
Module high pressure	-40~70℃	Module low pressure	-69~38℃
Compressor 1 discharge temperature	-30~150℃	Compressor 2 discharge temperature	-30~150℃
Compressor 3 discharge temperature	-30~150℃	Compressor 4 discharge temperature	-30~150℃
Compressor 5 discharge temperature	-30~150℃	Compressor 6 discharge temperature	-30~150℃
Outdoor unit heating EXV1	0~48	Outdoor unit heating EXV2	0~48
Sub-cooler EXV	0~48	Defrosting temperature	-30~139℃
Sub-cooler leaving liquid temperature	-30~139℃	Gas separator outlet tube temperature	-30~139℃
Oil return temperature	-30~139℃	Condenser inlet tube temperature	-30~139℃
Condenser outlet tube temperature	-30~139℃	—	—

NOTES:

① Under the status of parameter inquiry, the remote control signal is ineffective.

② If a parameter is invalid, it shows "—".

4.2.2 Parameter settings

You can set the unit's parameters whether the unit is on or off.

Press "Menu" on the home page and then select "Parameter Settings" to enter the page of parameter settings, as shown below:
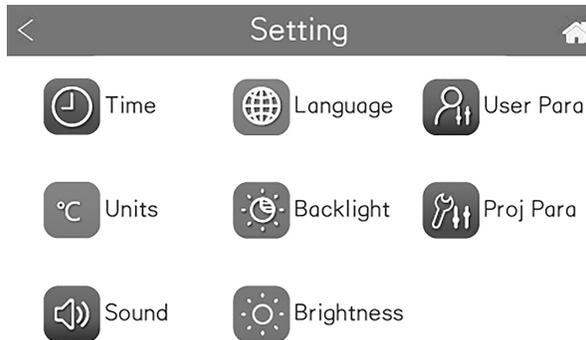
Fig 4.12 List of parameter settings

Press an icon to enter the setting of the corresponding function. To enter the setting of engineering parameters, you need to enter the engineering password. The default password is 123456. You can change the engineering password on the

setting page of engineering parameters. Please remember your engineering password once it is changed.

● Press a setting item to enter the setting of the corresponding function.
● Press $<$ to return to the previous page.

4.2.2.1 Setting of date and time
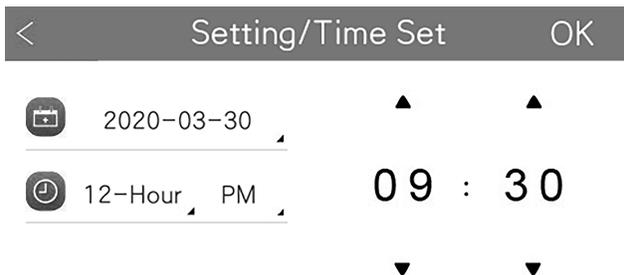
Fig 4.13 Setting of date and time

You can set the date and time separately and then they will be displayed on the home screen.

● Press the year and date to enter the date setting, as in Fig 4.14;
● Press adjustment buttons to adjust the hour and minute;
● Press the **-hour time to set 12/24-hour time. If you choose 12-hour time, you can set am/pm.

Fig 4.14 Date setting

4.2.2.2 Setting of user parameters

Fig 4.15 Setting of user parameters

Here you can set user parameters. On the left side, it is a list of parameter names; on the right side, (Yes) (example) indicates the current setting value (except those that need confirmation in a pop-up window, for example, the clearing of cleaning time); press the corresponding button to set the parameter.

● Press < to return to the previous page.

NOTE: Parameter setting is only effective when the master wired controller is on.

Table 4.4 List of user parameters

Setting item	Setting scope	Default	Remarks
Master wired controller	Yes; No	Yes	—
Master indoor unit	Yes; No	No	—
High ceiling installation	On; Off	Off	—
Operation priority	On; Off	Off	In case of insufficient power supply, operation priority can be set to enable some units to run while other units to stop.
Receive remote control signal	On; Off	Off	—
Link to the fresh air indoor unit	On; Off	Off	After the linkage is enabled, the fresh air indoor unit will be on or off as the other indoor units are turned on or off. It's also OK to turn on or off the fresh air unit independently. **NOTE:** this function is only applicable for fresh air indoor units.

Setting item	Setting scope	Default	Remarks
Indoor unit static pressure	1~9	5	5 selections: 3, 4, 5, 6, 7 9 selections: 1, 2, 3, 4, 5, 6, 7, 8, 9
Number of units in group control	0:disable this function 1-16: the number of indoor units	1	Set the number according to the number of connected indoor units.
Angle of return air panel	Angle 1 Angle 2 Angle 3	Angle 1	—
Temperature of auto mode	Auto cooling: 17°C ~30°C; Auto heating: 16°C ~29°C	Auto cooling: 25°C; Auto heating: 20°C	The set temperature of cooling – the set temperature of heating ≥1°C
Clear cleaning time	Clear; Do not clear	Do not clear	—
Fresh air outlet temperature	Cooling: 16°C~30°C; Heating: 16°C~30°C	Cooling: 18°C; Heating: 22°C	This function is only applicable for fresh air indoor units.
Cold air prevention time of indoor unit	00：180 seconds 01：300 seconds 02：420 seconds 03：600 seconds	180 seconds	—
Auxiliary electric heating function	00：effective under low temperature working condition; 01：effective under all working conditions; 02：ineffective	Effective under low temperature working condition	—

NOTE:

① To enter the setting page of other engineering parameters except the above (the page of engineering parameter setting), the engineering password is required.

② Under the status of parameter setting, the remote control signal is ineffective.

4.2.2.3 Setting of engineering parameters

Setting/Project Parameter Setting	
Power-off Memory	Yes
Energy Saving Setting	Yes
Project NO. Set	1
Prevent Heat Accumulate	Off
ODU Quiet Mode	5

◁ 1/5 ▷
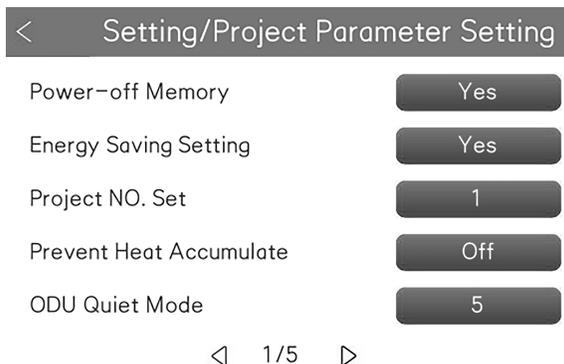
Fig 4.16 Setting of engineering parameters

Here you can set engineering parameters. On the left side, it is a list of parameter names; on the right side, Yes (example) indicates the current setting value (except those that need confirmation in a pop-up window, for example, the forcible defrosting); press the corresponding button to set the parameter.

● Press $<$ to return to the previous page.

5 Operation Instructions

5.1 Overview

The wired controller adopts the 3.5 inches color lattice LCD of high resolution and capacitance touch screen, meanwhile, there's an external light-touch button used for turning on/off the backlight. It has rich functions and is easy to operate.

(1) Paging display of function with clear arrangement and high readability;

(2) Status of homepage directly displays the current started/operated function;

(3) Rich timer functions. The user can set 3 weekly timers and 1 countdown timer at the same time. Under weekly timer, the user can preset startup mode and speed, temperature and the repeater week;

(4) The user can set backlight time and brightness according to usage demand, besides, switch the language of Chinese and English;

(5) It will enter sleep mode automatically if no operation, only the individual switch light will be reserved (the white light will be on when turning on and the red light will be on when turning off), which is energy-saving and will not affect the sleeping quality of the user. At this time, it can be turned off through the LED function.

5.2 Pages Description

The wired controller is equipped with the clock display function. For the first usage, if the system time is inconsistent with the current time, please revise time at the setting page to ensure the accuracy of timer operation. Meanwhile, if you want to conduct personalized setting for the wired controller, for instance, change backlight time, brightness, voice and language of the wired controller based on personal usage habit, please refer to the following operation introduction.

5.2.1 Homepage

Mon 05:12 AM	Mon 05:12 AM
23℃	23℃
Menu Up&down Medium Cool On/off	Menu Up&down Medium Cool On/off

Fig 5.1 Homepage when unit is off   Fig 5.2 Homepage when unit is on

● When power is on, click the mode button to switch mode. For every click, the mode will be circulated according to the following sequence:

Auto->Cooling->Drying->Fan only->Heating->Floor heating->3D heating->Heat supply->Auto

NOTE: Auto mode is only available for the master indoor unit, for the other

26

modes, it might change based on unit condition.

- When power is on, click the temperature adjustment button to adjust and set temperature. Temperature range: 16℃~30℃.

NOTE: under auto mode, the temperature adjustment button is invalid.

- Click ON/OFF button to turn on/off the unit.
- When power is on, click the fan speed button to switch fan speed. For every click, the fan speed will be circulated according to the following sequence:

Auto fan speed 🌀 ->Low 🍃 ->Medium and low 🍃 ->Medium 🍃 ->Medium and high 🍃 ->Medium and high 🍃 ->Auto fan speed 🌀

NOTES:

① Under drying mode, the defaulted fan speed is low and it is unadjustable;

② Under floor heating mode, the fan speed is invalid.

Click up and down swing button to start/shut down up and down swing;

Click menu button to enter menu list.

5.2.2 Menu list

Fig 5.3 Menu list

27
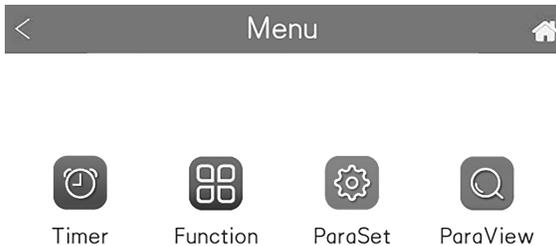
- Click timer button to enter the timer list page;
- Click function button to enter the function setting page;
- Click parameter setting button to enter the parameter setting list page;
- Click parameter inquiry button to enter the parameter inquiry list page;
- Click return button to return to the previous page;
- Click homepage button to return to the homepage directly.

5.2.3 Timer list
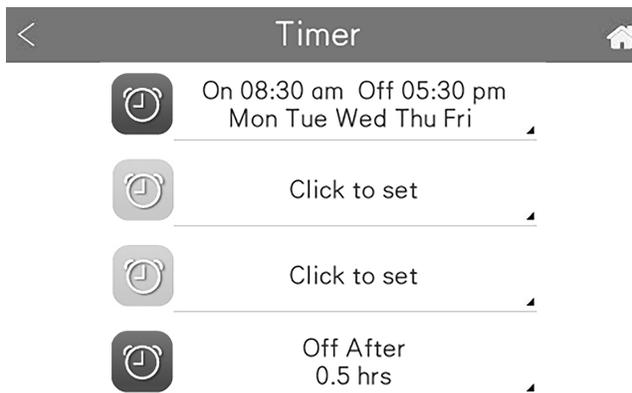
Fig 5.4 Timer list

Under ON/OFF status, timer setting is available, including 3 weekly timers and 1 countdown timer.

To ensure time accuracy, before setting timer, please check if the system time is consistent with the current time first, if not, please reset it, as shown in 4.2.2.1 Time

and date.

- Click ── button to enter corresponding timer setting page, the former 3 items are for weekly timer setting and the 4th item is the countdown setting;
- Click 🔵 to turn on/off corresponding timer;
- Click return button to return to the previous page;
- Click homepage button to return to the homepage directly;

5.2.4 Weekly timer setting
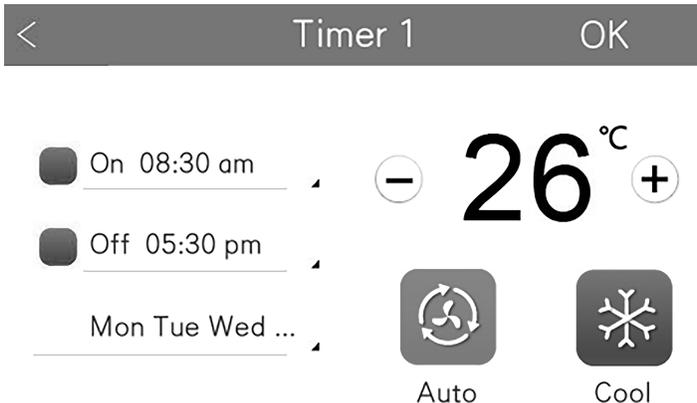
Fig 5.5 Editing page of weekly timer

Under weekly timer mode, the user can set the mode for timer ON, temperature, fan speed and the repeated week at the same time. If the user wants to set timer on only, just activate the startup time; if the user wants to set timer off only, just activate the shutdown time; if the user wants to set both timer ON/OFF at the same time, just

29

activate startup and shutdown time at the same time; if the user wants that timer to be effective in the designated week, enter the repeater item for setting.

- Click timer ON to set startup time (Fig 5.6);
- Click timer OFF to set shutdown time;
- Click ⬤ to start/shut down corresponding item;
- Click temperature adjustment button to set the temperature for timer ON;
- Click the mode button, for instance, ❄, to set the mode for timer ON;
- Click fan speed button to set the speed for timer ON;
- Click confirm button to save current timer setting and return to the previous page;
- Click < button, the setting will not be saved, and it will return to the previous page;
- Click the repeated button Mon Tue Wed ... , to enter repeated setting (Fig 5.7).
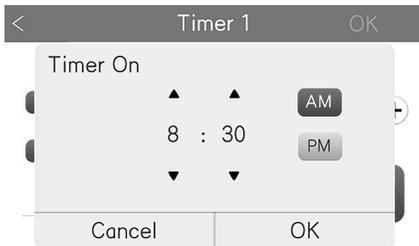
Fig 5.6 Time setting for timer ON   Fig 5.7 Repeated setting for weekly timer
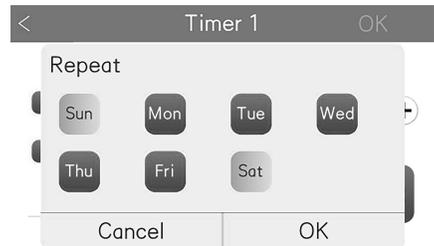
5.2.5 Countdown setting
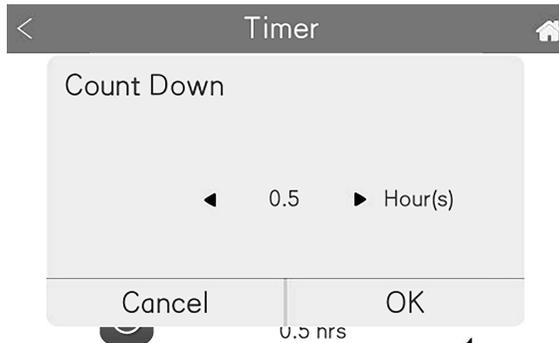
Fig 5.8 Timer setting for countdown

5.2.6 Function setting list
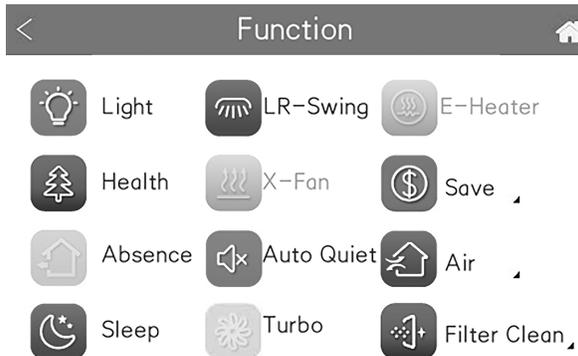
Fig 5.9 Function setting list

Conduct function setting by clicking corresponding function icon. For the function item with the icon ◢ , detailed setting such as energy-saving, air exchange and filter cleaning is available in its subordinate menu.

- Click $<$ button to return to the previous page;
- Click 🏠 button to return to the homepage directly;

5.2.7 Energy-saving function
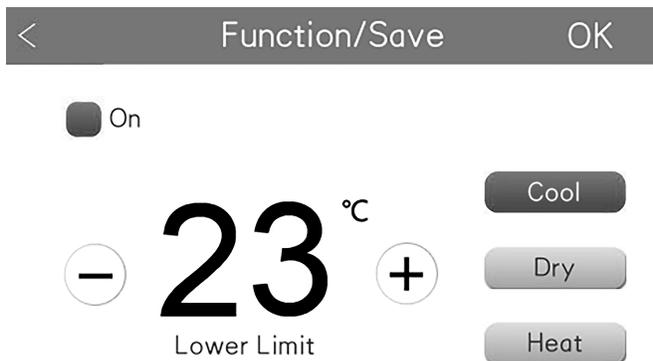
Fig 5.10 Energy-saving setting

Energy-saving function: Through setting the lower limit value of set temperature of cooling and drying mode and the upper limit value of set temperature of heating mode, the air conditioner will operate in the designated temperature range, thus realizing the purpose of energy conservation.

- Click energy-saving button 🔵 to turn on/off the function;
- Click adjustment button to adjust and limit temperature;
- Click energy-saving mode to switch different mode;

5.2.8 *Air exchange function
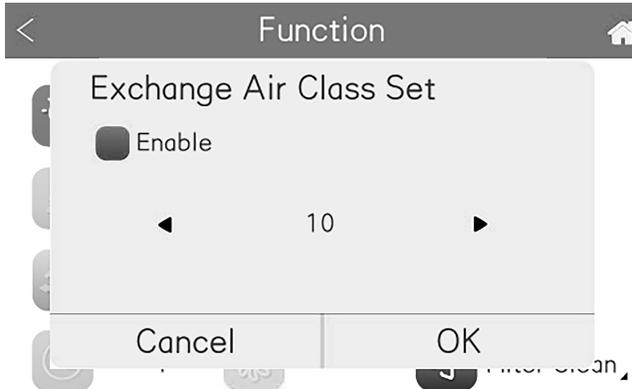
Fig 5.11 Air exchange grade setting

Air exchange function: the function improves air quality to maintain fresh air inside the house by adjusting the indoor fresh air volume.

- Click ON/OFF button to turn on/off the air exchange function;
- Click adjustment button to adjust air exchange grade;

5.2.9 Filter cleaning
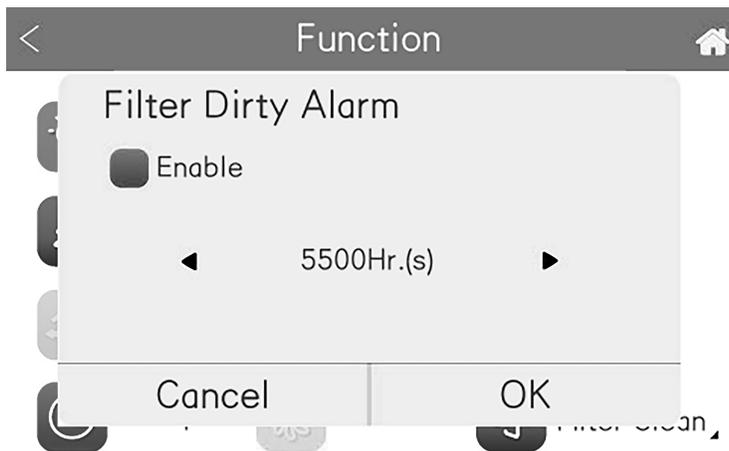
Fig 5.12 Filter cleaning alarm setting

Filter cleaning alarm function: the air conditioner will record the operation time. When reaching the set time, it will remind the user to clean the filter, thus avoiding filter blockage due to long-term dirt, which might lead to poor cooling and heating effect, abnormal protection or bacteria breeding, etc.

● Click ON/OFF button to turn on/off filter cleaning function;
● Click adjustment button to adjust filter cleaning alarm time;

6 Special Functions

6.1 Remote Shielding

Remote shielding function: remote monitor or centralized controller can shield the remote control or button operation of related functions of wired controller and make the operation invalid, thus realizing the remote control function.

Remote shielding function is divided to complete shielding and part shielding. In complete shielding, all remote or button operation for the wired controller will be invalid; in part shielding, remote or button operation for the shielded functions of wired controller will be invalid.

When remote monitor or centralized controller is conducting remote shielding for the wired controller, status on homepage will display ⑨. If the user is conducting remote or button operation for the wired controller, the operation will be invalid.

6.2 Access Display

When there's an access control system, the wired controller has the functions of "work with card and stop without card". Remove the card and re-insert it, operation will be resumed based on the settings memorized. If the card is not inserted (or not well inserted), this icon 凷 will appear; when the user is conducting remote control or button operation for the wired controller, the operation is invalid and icon "凷" will blink for alarm.

NOTE: wired controller of this model shall not be connected with entrance guard

system. It cannot test the signal of card insertion/extraction directly. Only when equipped with the wired controller which has the function of entrance guard signal test (deem as the master and auxiliary wired controller) is the access display and control function of the wired controller of this model valid.

7 Error Display

When there occurs any error during operation, the home page of the wired controller displays the fault icon"🔵", and displays the fault code and the fault indoor unit project No.. When there are multiple faults at the same time, the fault code will be displayed circularly;

NOTE: If error occurs, please turn off the unit and send for professionals to repair.

7.1 Table of Error Codes for Outdoor Unit

Error Code	Content	Error Code	Content
E0	Outdoor Unit Error	J9	System Pressure Under-Ratio Protection
E1	High Pressure Protection	JA	Protection of Abnormal Pressure
E2	Discharge Low Temperature Protection	JC	Protection of Water Flow Switch
E3	Low Pressure Protection	JL	Protection of Low High-pressure
E4	Excess Discharge Temperature Protection of Compressor	JE	Oil Return Pipe is Blocked
Ed	Low Temperature Protection of Driver Module	JF	Oil Return Pipe is Leaking

Error Code	Content	Error Code	Content
F0	Bad Performance of the Outdoor Mainboard	JJ	Low Water-in Temperature Protection
F1	High Pressure Sensor Error	b1	Outdoor Ambient Temperature Sensor Error
F2	Inlet Tube Temperature Sensor Error of Plate Type Heat Exchanger	b2	Defrosting Temperature Sensor 1 Error
F3	Low Pressure Sensor Error	b3	Defrosting Temperature Sensor 2 Error
F4	Outlet Tube Temperature Sensor Error of Plate Type Heat Exchanger	b4	Subcooler Liquid-out Temperature Sensor Error
F5	Compressor 1 Discharge Temperature Sensor Error	b5	Subcooler Gas-out Temperature Sensor Error
F6	Compressor 2 Discharge Temperature Sensor Error	b6	Gas-liquid Separator Inlet Temperature Sensor Error
F7	Compressor 3 Discharge Temperature Sensor Error	b7	Gas-liquid Separator Outlet Temperature Sensor Error
F8	Compressor 4 Discharge Temperature Sensor Error	b8	Outdoor Humidity Sensor Error
F9	Compressor 5 Discharge Temperature Sensor Error	b9	Heat Exchanger Gas-out Temperature Sensor Error
FA	Compressor 6 Discharge Temperature Sensor Error	bA	Oil-return Temperature Sensor Error
FC	Compressor 2 Current Sensor Error	bH	System Clock Malfunction
FL	Compressor 3 Current Sensor Error	bE	Malfunction of Entry Tube Temperature Sensor of Condenser

Error Code	Content	Error Code	Content
FE	Compressor 4 Current Sensor Error	bF	Malfunction of Exit Tube Temperature Sensor of Condenser
FF	Compressor 5 Current Sensor Error	bJ	High and Low Pressure Sensors are Connected Inversely
FJ	Compressor 6 Current Sensor Error	bP	Oil-return 2 Temperature Sensor Error
FP	Malfunction of DC motor	bU	Oil-return 3 Temperature Sensor Error
FU	Compressor 1 Top Temperature Sensor Error	bb	Oil-return 4 Temperature Sensor Error
Fb	Compressor 2 Top Temperature Sensor Error	bd	Air-in Temperature Sensor Error of Subcooler
Fd	Mode Exchanger Outlet Pipe Temperature Sensor Error	bn	Liquid-in Temperature Sensor Error of Subcooler
Fn	Mode Exchanger Inlet Pipe Temperature Sensor Error	by	Water-out Temperature Sensor Error
Fy	Water-in Temperature Sensor Error	P0	Compressor Drive Board Error
J1	Compressor 1 Over-current Protection	P1	Compressor Drive Board Malfunction
J2	Compressor 2 Over-current Protection	P2	Protection of Compressor Drive Board Power Supply
J3	Compressor 3 Over-current Protection	P3	Protection of Compressor Drive Board Module Reset
J4	Compressor 4 Over-current Protection	H0	Error of Fan Drive Board
J5	Compressor 5 Over-current Protection	H1	Malfunction of Fan Drive Board

Error Code	Content	Error Code	Content
J6	Compressor 6 Over-current Protection	H2	Protection of Fan Drive Board Power Supply
J7	4-way Valve Blow-by Protection	GH	PV DC/DC Protection
J8	System Pressure Over-Ratio Protection	—	—

7.2 Table of Error Codes for Indoor Unit

Error Code	Content	Error Code	Content
L0	Indoor Unit Error	dL	Outlet Air Temperature Sensor Error
L1	Indoor Fan Protection	dE	Indoor Unit CO_2 Sensor Error
L2	E-heater Protection	db	Special Code: Field Debugging Code
L3	Water Full Protection	dn	Swing Assembly Error
L4	Wired Controller Power Supply Error	dy	Water Temperature Sensor Error
L5	Anti-Frosting Protection	y1	Inlet Pipe Temperature Sensor 2 Error
L6	Mode Conflict	y2	Outlet Pipe Temperature Sensor 2 Error
L7	No Master Indoor Unit Error	y3	Middle Tube Temperature Sensor 2 Error
L8	Power Insufficiency Protection	y7	Fresh Air Inflow Temperature Sensor Error
L9	Quantity Of Group Control Indoor Units Setting Error	y8	Indoor Air Box Sensor Error
LA	Indoor Units Incompatibility Error	y9	Outdoor Air Box Sensor Error

Error Code	Content	Error Code	Content
LH	Low Air Quanlity Warning	yA	IFD error
LC	Outdoor-Indoor Incompatibility Error	yH	Fresh Air-out Sensor Error
LF	Shunt Valve Setting Error	yC	Air-return Inlet Sensor Error
LJ	Wrong Setting of Function DIP Switch	yL	Air-return Outlet Temperature Sensor Error
LP	Zero-crossing Malfunction of PG Motor	yE	High Liquid Level Switch Error
LU	Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System	yF	Low Liquid Level Switch Error
Lb	Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System	o0	Motor Drive Error
Ld	Indoor Fan 2 Error	o1	Low Voltage of IDU Bus Bar
Ln	Lift Panel Return Air Frame Reset Exception	o2	High Voltage of IDU Bus Bar
d1	Indoor Unit PC-Board Error	o3	IDU IPM Module Protection
d3	Ambient Temperature Sensor Error	o4	IDU Startup Failure
d4	Inlet Pipe Temperature Sensor Error	o5	IDU Overcurrent Protection
d5	Malfunction of Middle Tube Temperature Sensor	o6	IDU Current Detective Electric Circuit Error
d6	Outlet Pipe Temperature Sensor Error	o7	IDU Losing Step Protection
d7	Humidity Sensor Error	o8	IDU Driver Communication Error

Error Code	Content	Error Code	Content
d8	Water Temperature Abnormality	o9	Communication Error of IDU Master Controller
d9	Jumper Cap Error	oA	High Temperature of IDU Module
dA	Indoor Unit Hardware Address Error	oC	IDU Charging Circuit Error
dH	Wired Controller PC-Board Error	ob	Temperature Sensor Error of IDU Module
dC	Capacity DIP Switch Setting Error	—	—

7.3 Table of Debugging Codes

Error Code	Content	Error Code	Content
U2	Outdoor Unit Capacity Code/Jumper Cap Setting Error	C0	Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction
U3	Phase Sequence Protection of Power Supply	C1	Communication error of expansion board
U4	Protection of Lack of Refrigerant	C2	Communication error between master control and inverter compressor drive
U5	Wrong Address of Compressor Drive Board	C3	Communication error between master control and inverter fan motor drive
U6	Valve Abnormal Alarm	C4	Error of Lack of Indoor Unit

Error Code	Content	Error Code	Content
U7	Grid DRED0 Response Protection	C5	Alarm of Indoor Unit Project Number Collision
U8	Indoor Unit Tube Malfunction	C6	Alarm of Wrong Number of Outdoor Unit
U9	Outdoor Unit Tube Malfunction	C7	Mode Exchanger Communication Error
UA	Overvoltage Protection of DC Bus Bar in Power Grid Side	CH	Rated capacity is too high
UH	Undervoltage Protection of DC Bus Bar in Power Grid Side	CC	No master control unit error
UC	Master indoor unit is successfully set	CL	Rated capacity is too low
UL	Emergency Operation DIP switch setting of the compressor is wrong	CE	Communication Failure Between Mode Exchanger and Indoor Unit
UE	Refrigerant Charging is ineffective	CF	Error of Multiple Master Indoor Unit
UF	Indoor Unit Identification Error of Mode Exchanger	CJ	System addresses is incompatible
UJ	PV module F0 protection	CP	Error of Multiple Master Wired Controller
UP	Protection shutdown error of thermal storage module	CU	Communication Error between Indoor Unit and Remote Receiver
UU	Electronic expansion valve leak error of thermal storage module	Cb	Outflow of Units IP Address
Ub	Protection without shutdown error of thermal storage module	Cd	Communication Failure Between Mode Exchanger and Outdoor Unit

Error Code	Content	Error Code	Content
Ud	Grid-connection driver board error	Cn	Indoor and Outdoor Network Error of Mode Exchanger
Un	Communication error between grid-connection driver board and master controller	Cy	Communication Error of No Master in Mode Exchanger
Uy	PV module overheating protection	—	—

7.4 Table of Status Codes

Error Code	Content	Error Code	Content
A0	Unit is waiting for debugging	Ay	Shielding status
A1	Check the compressor operation parameters	n3	Compulsory defrosting
A2	After-sales Refrigerant Reclaim	q5	Setting of ordinary units and high sensible heat units
A3	Defrosting	q7	Select degree Celsius or Fahrenheit
A4	Oil return	q8	Discharge low temperature protection revision valueb
A5	Online Testing	q9	Setting of defrosting mode
A8	Vacuum-pumping Mode	qL	Setting of static pressure
A9	Operate in Setback Function	qE	EVI Operating Mode
AH	Heating	qF	System compulsory cooling mode
AC	Cooling	qP	PV GMV Unit export area setting
AF	Fan	qU	Grid voltage system configuration

Error Code	Content	Error Code	Content
AJ	Filter Clean Reminder	qb	Anti-condensation temperature setting
AU	Remote Urgent Stop	qd	Setting of target degree of super-cooling of ODU
Ab	Emergency Stop	qn	PV grid-connected settings
Ad	Operation Restriction	qy	Working mode of compressor heating belt
An	Lock status	—	—

600005062786