



Owner's Manual

Original Instructions

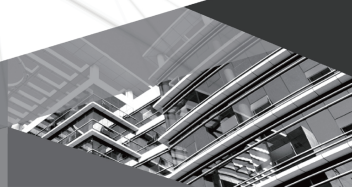
Commercial Air Conditioners

Wired Controller XK112

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 responsible 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.
- (5) The final right to interpret for this instruction manual belongs to Gree Electric Appliances, Inc. of Zhuhai.

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1 Display

1.1 Outline of Wired Controller

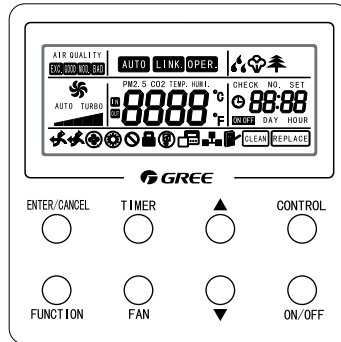


Figure 1-1 Outline of Wired Controller

1.2 Liquid Crystal Diagram and Instruction for Wired Controller

Liquid crystal diagram is as below:

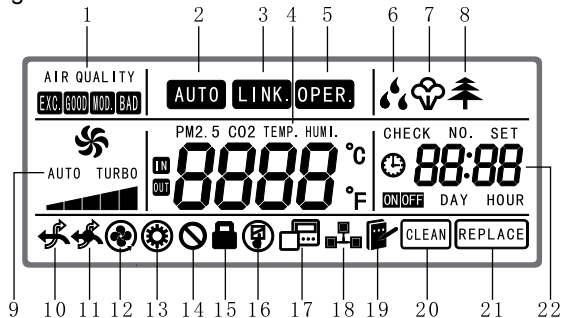


Figure 1-2 Liquid Crystal Diagram

Instructions for liquid crystal diagram of wired controller are as below:

Table 1.2.1 Instruction for liquid crystal diagram

No.	Display Name	Instruction for Display Contents
1	Indoor air quality level	There are a total 4 levels for indoor air quality: excellent, good, moderate, bad.
2	Auto	Auto mode: when there is air box, it can automatically operate according to the set target air quality level.
3	Linkage	Linkage mode: when there is multi-VRF unit, it will operate with the multi-VRF unit together.
4	Display area of air quality parameter	When there is no air box, it only displays temperature; when there is air box, it will circularly display air quality parameters: PM2.5 density, carbon dioxide density, temperature, relative humidity.
5	Operation	Operating mode.
6	Dehumidification	Dehumidifying function.
7	Humidification	Humidifying function.
8	Health	Health function.
9	Wind speed	Display of wind speed.
10	By-pass operation	It will display when the unit is under by-pass operating status or low-temperature operating status.
11	Full heat exchange operation	It will display when the unit is under full heat exchange operating status.
12	Air discharge operation	It will display when the unit is under air discharge operating status or indoor purification mode.
13	Ancillary heating	It will display when this function is turned on.
14	Prohibition	Prohibit operation.
15	Child lock	Prevent misoperation of children.
16	Shielding	Long-distance monitor shields operation of display board: shield the ON/OFF function, shield the startup, shield the shutdown, shield the mode, shield the timer function, etc.

No.	Display Name	Instruction for Display Contents
17	Secondary wired controller	It will display when secondary wired controller is set.
18	Group control	It will display in group control.
19	Memory	In memory of ON/OFF status of unit, when power failure occurs, the unit will resume to the former status when being energized.
20	Washing	Remind of washing.
21	Replacement	Remind of replacement.
22	Display area for timer and parameter setting	Mainly for displaying time, project code, parameter setting, parameter inquiry, etc.
Remark: some display of wired controller may differ due to different functions of unit.		

2 Buttons

2.1 Diagram of Button Silkscreen

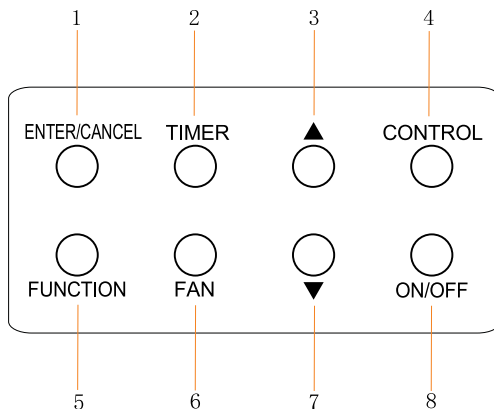


Figure 2-1 Button Silkscreen

2.2 Instruction for Button Function

Table 2.2.1 Instruction for Button Function

No.	Name of Button	Functions
1	Enter/Cancel	Select and cancel of function
2	Timer	Timer setting
3	Add	(1) Timer setting (2) Parameter setting and inquiry
7	Subtract	
4	Control	Switch the modes, including auto, linkage, operation. (Note: auto mode is valid when connecting to air quality sensor, linkage mode is valid when connecting to multi-VRF unit)
5	Function	Selection of dehumidification, humidification, and health functions, activate or cancel the function via "ENTER/CANCEL" button.
6	Fan	It can switch among low, medium-low, medium, medium-high, high, turbo, and auto speed.
8	On/Off	ON/OFF of the unit
3 + 7	Child Lock	Press and hold "▲" and "▼" button simultaneously for 5 seconds to start up or cancel the child lock function.

3 Installation

3.1 Dimension and Components of Wired Controller

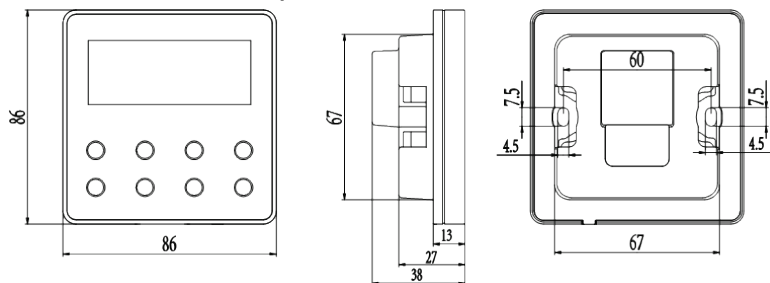


Figure 3-1 Dimension of Wired Controller (unit:mm)

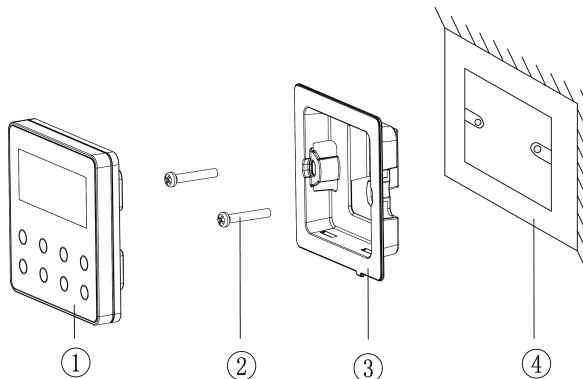


Figure 3-2 Components of Wired Controller

Wired Controller XK112

No.	1	2	3	4
Name	Panel of wired controller	Screw M4×25	Soleplate of wired controller	Junction box that installed inside the wall
QTY	1	2	1	Prepared by user

3.2 Installing Position and Requirements of Wired Controller

- (1) Do not install the wired controller in wet place.
- (2) Do not install the wired controller under direct sunlight.
- (3) Do not install the wired controller near high-temperature source or where is likely to be spattered with water.

3.3 Installation of Wired Controller

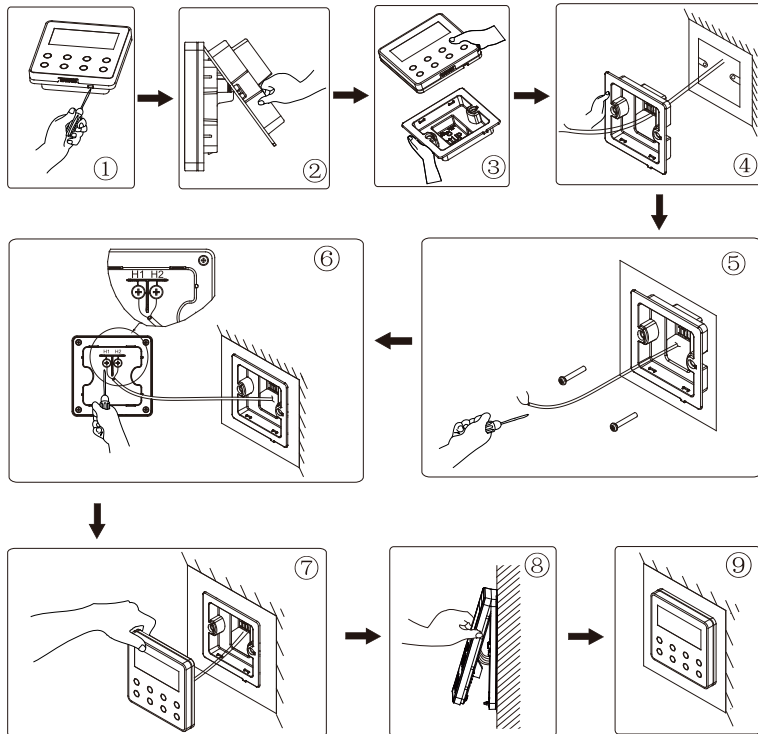


Figure 3-3 Sketch Map for Installation of Wired Controller

The above pictures are simple installation steps for wired controller, and instructions are as below:

- (1) Please cut the power source of indoor unit before installation, electrified operation during installation is not allowed;
- (2) Draw out the 2-core twisted-pair inside the installation hole of wall, and thread this wire through the wire connecting hole behind the soleplate of wired controller;
- (3) Stick the soleplate of wire controller on the wall, and then use screw M4×25 to fix the soleplate onto the installation hole of wall;
- (4) Respectively connect the 2-core twisted-pair to H1 and H2 wiring terminals, and then screw up the screw; no polarity for these two wiring terminals, but note that not to connect to strong current;
- (5) Buckle the panel of wired controller into the soleplate, then the installation is finished.

3.4 Removal of Wired Controller

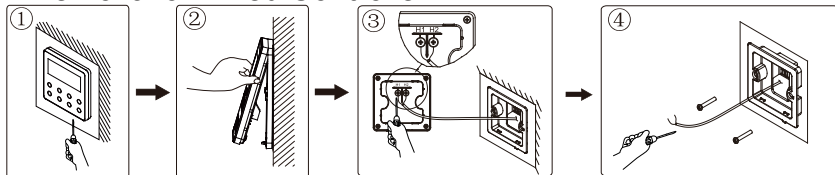


Figure 3-4 Sketch Map for Removal of Wired Controller

3.5 Debugging

3.5.1 Parameter Inquiry

Parameters of unit can be inquired under both power-on and power-off status.

- (1) Press and hold “FUNCTION” button for 5 seconds, enter into the unit parameter inquiry interface, the air quality parameter area displays “C00”, and “CHECK” icon is on;
- (2) Press “▲” or “▼” button can select the parameter code;

(3) Press “ENTER/CANCEL” button can return to the last level till quit the parameter inquiry.

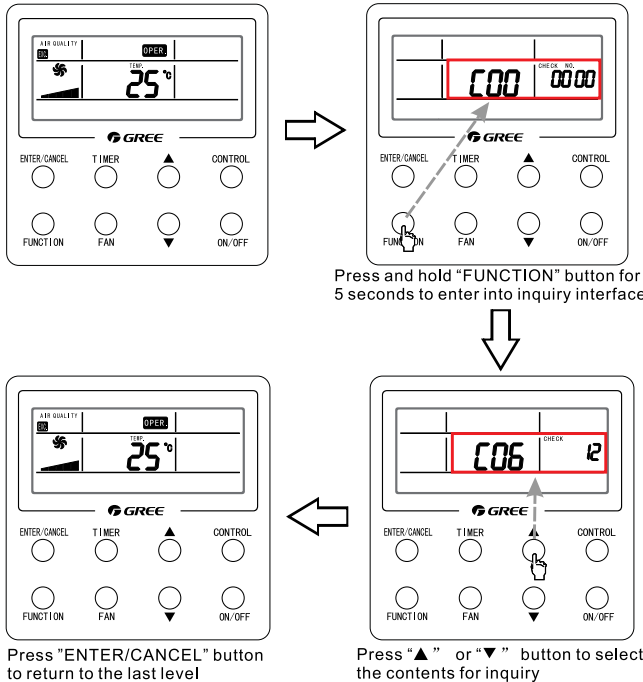


Figure 3-5 Parameter Inquiry

Table 3.5.1 Parameter Inquiry

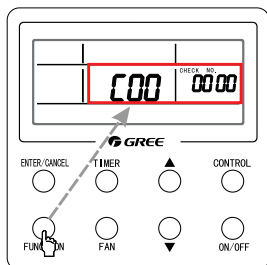
Parameter Code	Parameter Name	Range	Viewing Method
C00	Entrance of adjustable parameter	—	Timer area displays: project number of the current fresh air unit.
C06	Inquiry of filter replace time percentage	Pollution level : 0 ~ 100	Timer area displays. (Only display the IDU parameter with the minimum project number)
C07	Inquiry for temperature of fresh air inlet temperature sensor	Temperature range : -25 ~ 99	Operating methods: enter into the inquiry, under “C07” status, press “CONTROL” button to enter into indoor unit air inlet temperature sensor inquiry interface, press “▲” and “▼” to switch indoor unit number. Displaying method: Display of air parameter area: project number of the current indoor unit; display of timer area: temperature of air inlet temperature sensor
C08	Inquiry for filter washing time percentage	Pollution level : 0 ~ 100	Timer area displays. (Only display the parameter of IDU with the minimum project number)
C10	Inquiry for setting of positive and negative pressure	0 ~ 2	Display of timer area : 00 : normal wind speed notch setting ; 01 : positive pressure mode ; 02 : negative pressure mode.
C11	Inquiry for quantity of group control	1 ~ 16	Display of timer area: quantity of IDU in HBS network
C16	Inquiry for parameter of outdoor maximum relative humidity under air discharge mode	40 ~ 90	Display of timer area: relative humidity parameter

Parameter Code	Parameter Name	Range	Viewing Method
C17	Inquiry for outdoor relative humidity	20 ~ 90	Display of timer area: relative humidity value.
C19	Inquiry for major air box (only when it connects to air box)	00 ~ 01	Under C19 status, press “CONTROL” button, timer area displays the major box setting parameter 00 or 01, 01 means the major air box. Air parameter area displays the address dial code of air box. Press “▲” and “▼” can switch the air box.

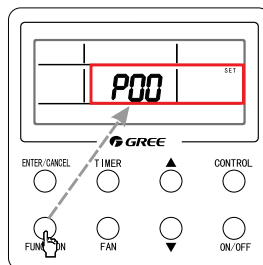
3.5.2 Parameter Setting

Parameters of unit can be set under both power-on or power-off status.

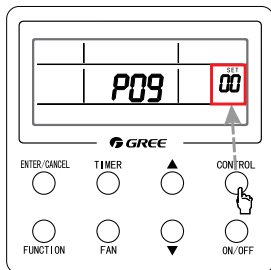
- (1) Press and hold “FUNCTION” button for 5 seconds, the air quality parameter area displays “C00”, and then press and hold “FUNCTION” button for 5 seconds, then the air quality parameter area displays “P00”.
- (2) Press “▲” or “▼” button can select the parameter code, press “CONTROL” button to switch to parameter setting, then the parameter value flickers, press “▲” or “▼” button can adjust the parameter value, and press “ENTER/CANCEL” button to finish the setting and save.
- (3) Press “ENTER/CANCEL” button can return to the last level till quit the parameter setting.



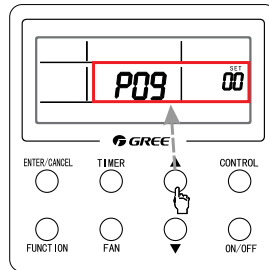
Press and hold "FUNCTION" button for 5 seconds to enter into inquiry interface



Press and hold "FUNCTION" button again for 5 seconds to enter into setting interface



Press "CONTROL" button, the contents to be set will flicker



Press "▲" or "▼" button to select the item to be set

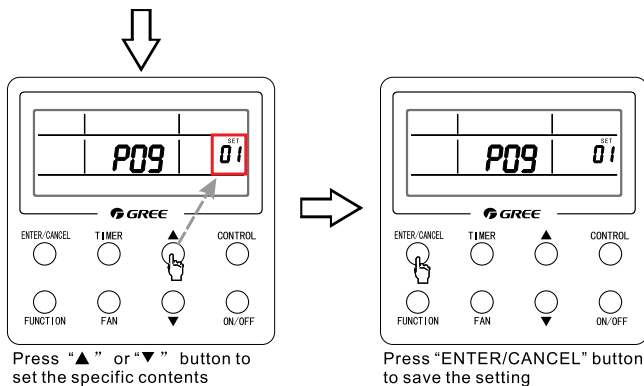


Figure 3-6 Parameter Setting

Table 3.5.2 Parameter Setting List

Parameter Code	Parameter Name	Parameter Range	Instruction
P09	Setting of positive and negative pressure 【default-00】	00 ~ 02	00 : normal wind speed notch setting; wind speed notch of fresh air motor and air discharge motor is in consistent with the set wind notch of wired controller; 01 : positive pressure mode: wind notch setting of fresh air motor and air discharge motor is automatically switched according to positive pressure mode; 02 : negative pressure mode: wind notch setting of fresh air motor and air discharge motor is automatically switched according to negative pressure mode.
P10	Parameter setting for outdoor maximum relative humidity under air discharge mode 【default-90】	40 ~ 90	Take 10 as an increasing unit
P14	Quantity setting for one-for-more indoor unit 【default-01】	00 : this function is prohibited 01-16 : quantity of indoor unit	Set corresponding value according to the quantity of indoor units connected.
P15	Power-fail memory mode 【default-01】	00 : turn off the unit when being re-energized after power failure 01 : resume the former status when being re-energized after power failure	—

Parameter Code	Parameter Name	Parameter Range	Instruction
P16	Temperature unit conversion 【default-00 : degree Celsius】	00 : degree Celsius 01 : degree Fahrenheit	—
P30	Static pressure setting 【default-100】	Static pressure: 100、75、50	Unit: pa
P33	Timer function setting 【default-00】	00 : count down 01 : timer	—
P34	Valid for repeat time setting 【default-01】	00 : invalid for repeat 01 : valid for repeat	Valid for only the timer function is set
P35	Return to ex-factory setting 【default-00】	00 : invalid 01 : valid	After selecting 01, press and hold “ENTER/CANCEL” button for 5 seconds, the user function will resume to ex-factory status.
P48	Humidity range setting (invalid for preserving this item)	00 : requirement for humidity range 40%-60% 01 : requirement for humidity range 20%-80%	When it is set as 00, the fresh air relative humidity of fresh air unit is controlled within 40%-60%; when it is set as 01, the fresh air relative humidity of fresh air unit is controlled within 20%-80%;
P49	Outdoor pollution level parameter setting 【default-02】	01 : good 02 : fine 03 : light pollution 04 : medium pollution 05 : heavy pollution 06 : severe pollution	Set the outdoor pollution level parameter according to pollution degree of different regions.
P50	Indoor air quality level setting 【default-02】	01 : good 02 : fine	In auto control mode, automatically set the indoor air quality according to the setting of indoor air quality level.

Parameter Code	Parameter Name	Parameter Range	Instruction
P51	Major air box setting 【default-00】 (it can be set only when connecting to air box)	00 : not major air box 01 : major air box	Under P51 status, press "CONTROL" button, the timer area displays the major air box setting parameter 00 or 01, air parameter area displays address dial code of air box, each time press the "CONTROL" button can jump to the next air box. Press "▲" and "▼" can adjust the setting of 00 or 01 of major air box. Press "ENTER/CANCEL" button to save the setting after all the parameters are set. There is only one major air box, if several boxes are set, it will be subject to the latest one.
P53	Air box PM2.5 sensor operating status setting 【default—00】 (it can be set only when connecting to air box)	00 : off 01 : on	Under P53 status, press "CONTROL" button, the timer area will display the setting parameter 00 or 01 of PM2.5 sensor operating status, air parameter area will display the address dial code of air box. Each time press "Control" button can jump to the next air box. Press "▲" and "▼" can adjust the PM2.5 sensor operating status setting 00 or 01. After all the parameters are set, press "ENTER/CANCEL" button to quit the setting.
P56	Sleep mode setting 【default-00】	00 : off 01 : on	—
P57	Start time of sleep mode 【default-23:00】	20:00-00:00	When adjusting time, press "▲" or "▼" to increase or decrease 1min; hold "▲" or "▼" for 5s to increase or decrease 10min.
P58	End time of sleep mode 【default-06:00】	05:00-10:00	

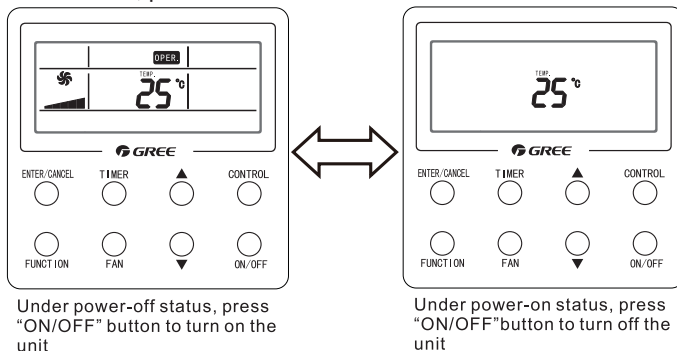
Parameter Code	Parameter Name	Parameter Range	Instruction
P59	Automatic control sensor setting 【default-01】	00: Integrated sensor 01: CO2 sensor	When setting “00”, the unit’s automatic control mode operates according to the concentration of PM2.5 and CO2; When setting “01”, the unit’s automatic control mode operates automatically according to the concentration of CO2.

4 Instruction for Operation

4.1 Turn on/off the Unit

Under power-off status, press “ON/OFF” button to turn on the unit.

Under power-on status, press “ON/OFF” button to turn off the unit.



4.2 Mode Setting

Under power-on status, each time when pressing the “CONTROL” button, the mode will be switched circularly according to the following order:

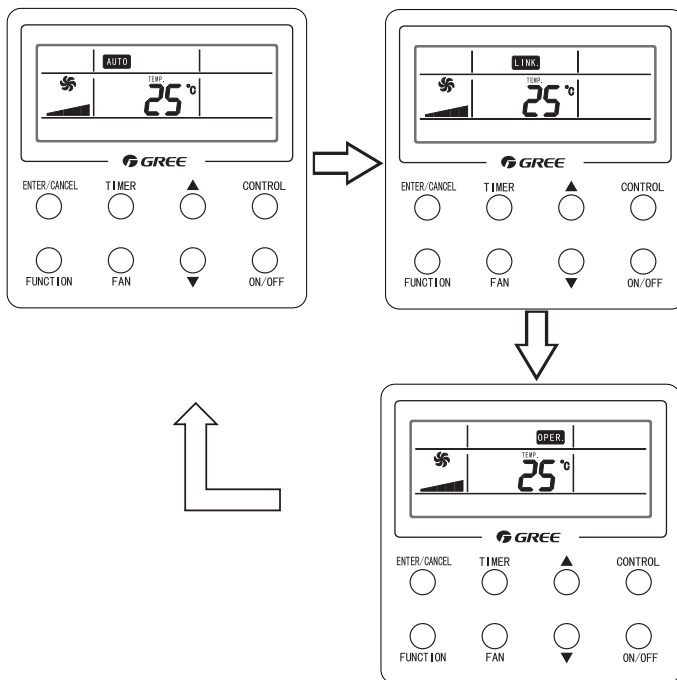


Figure 4-2 Mode Setting

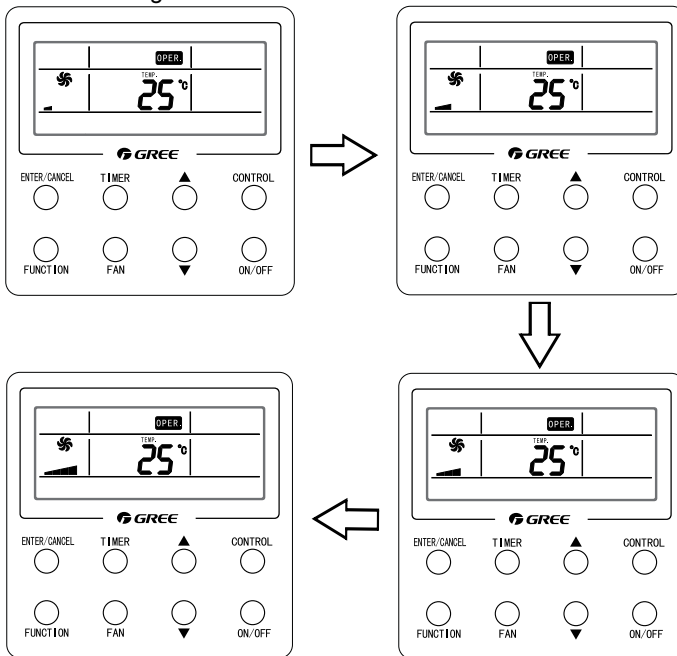
NOTES:

- (1) When the unit does not connect to outdoor unit of multi-VRF unit, there is no linkage mode, the unit will automatically skip this mode when switching modes.
- (2) When the unit does not connect to air box, there is no auto mode, the unit will automatically skip this mode when switching modes.

(3) When the unit does not connect to outdoor unit of multi-VRF unit nor the air box, there is only operating mode, no modes can be switched.

4.3 Fan Speed Setting

Under power-on status, press “FAN” button, the fan speed will circularly switch according to the following order:



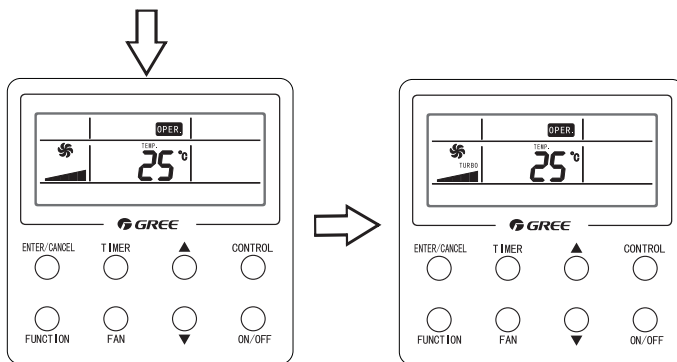


Figure 4-3 Fan Speed Setting

NOTE:

Under auto mode, the auto wind notch can be activated for some models, please subject to the instruction of specific model.

4.4 General Timer Setting

Under power-on status, the power-off countdown can be set. Under power-off status, the power-on countdown can be set.

Timer setting: when the unit has not been set the timer function, press “TIMER” button to enter into timer setting, then “HOUR” icon flickers, press “▲” or “▼” button to adjust the time, finally press “TIMER” button to save and quit the setting.

Cancel timer: when the unit has been set the timer function, press “TIMER” button to cancel the timer setting.

Range of Timer Countdown: 0.5 ~ 24 hours. Each time when pressing “▲” or “▼” button, the setting time will increase or decrease for 0.5 hour, when pressing and holding the button, it will automatically increase or decrease for 0.5 hour in every 0.3 second.

Under power-on status, the power-off timer countdown setting is as shown in the figure:

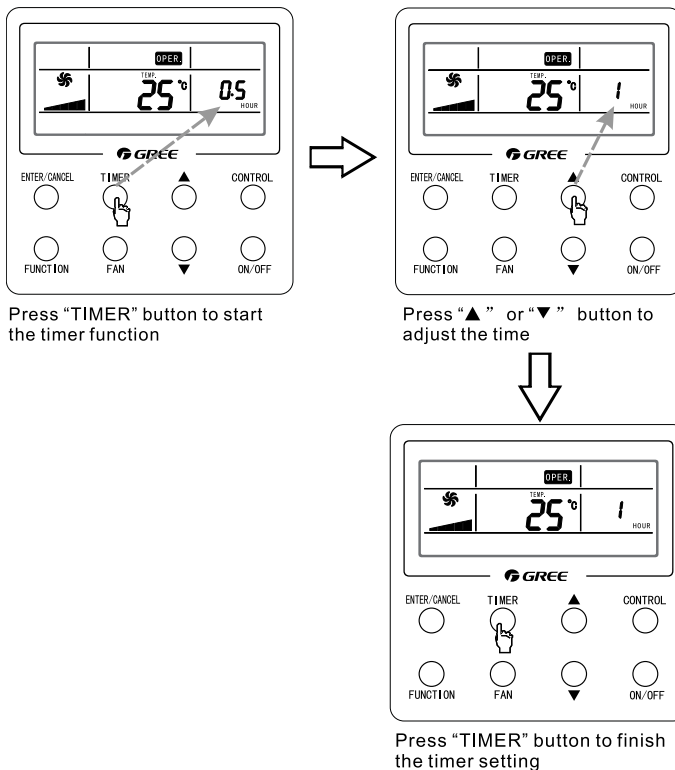


Figure 4-4 General Timer Setting

4.5 Clock Timer Setting

Unit can be set the timer ON/OFF time under power-on or power-off status.

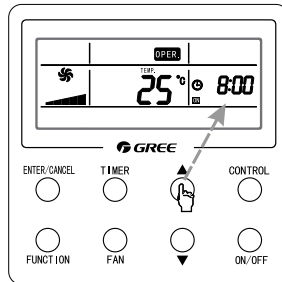
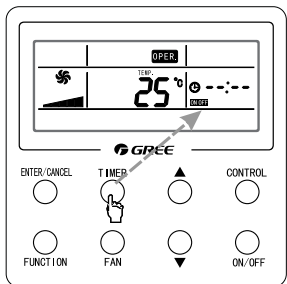
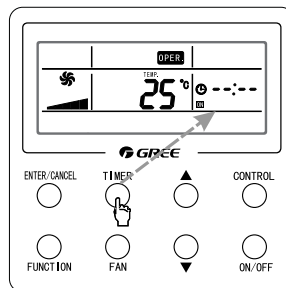
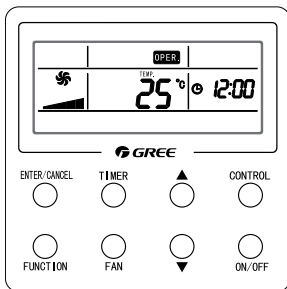
Clock timer setting:

- (1) Press “Timer” button to enter into timer setting, the icon “ON” flickers;
- (2) Press “▲” or “▼” to adjust the unit ON time, and press “ENTER/CANCEL” button to finish the timer ON setting;
- (3) Before pressing “ENTER/CANCEL” button, press “TIMER” button can save the unit ON timer and switch to unit OFF timer setting, the icon “OFF” flickers;
- (4) Press “▲” or “▼” to adjust the unit OFF time, and press “ENTER/CANCEL” to finish the timer setting.
- (5) Each time when pressing “▲” or “▼” button can increase or decrease for 1 minute, press and hold “▲” or “▼” button for 5 seconds can increase or decrease for 10 minutes.

Cancel timer:

Press “TIMER” button to enter into timer setting, and press “TIMER” button again can switch the timer ON or timer OFF; press “ENTER/CANCEL” button can cancel the timer function.

Timer setting is shown as the figure:



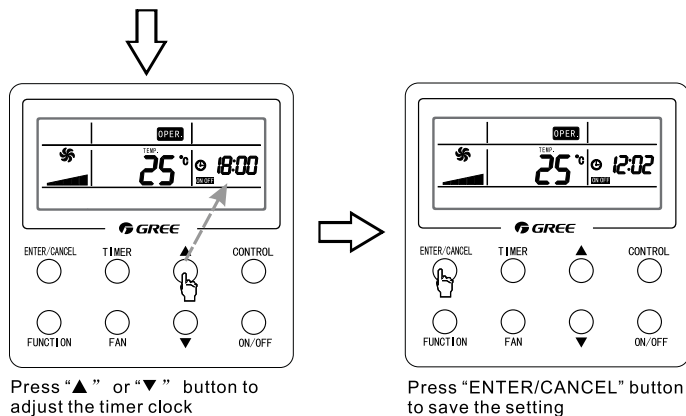


Figure 4-5 Clock Timer Setting

4.6 Clock Setting

Clock display: when the timer setting method of wired controller is clock timer (for setting method please see the parameter setting), under power-on or power-off status, the timer area will display the system clock, the  icon is on, then you can set the clock.

Clock setting: press and hold "TIMER" button for 5 seconds, enter into the clock setting, the  icon flickers, press "▲" or "▼" button can increase or decrease for 1 minute, press and hold "▲" or "▼" button for 5 seconds can increase or decrease for 10 minutes; press "ENTER/CANCEL" or "TIMER" button can save and quit the setting.

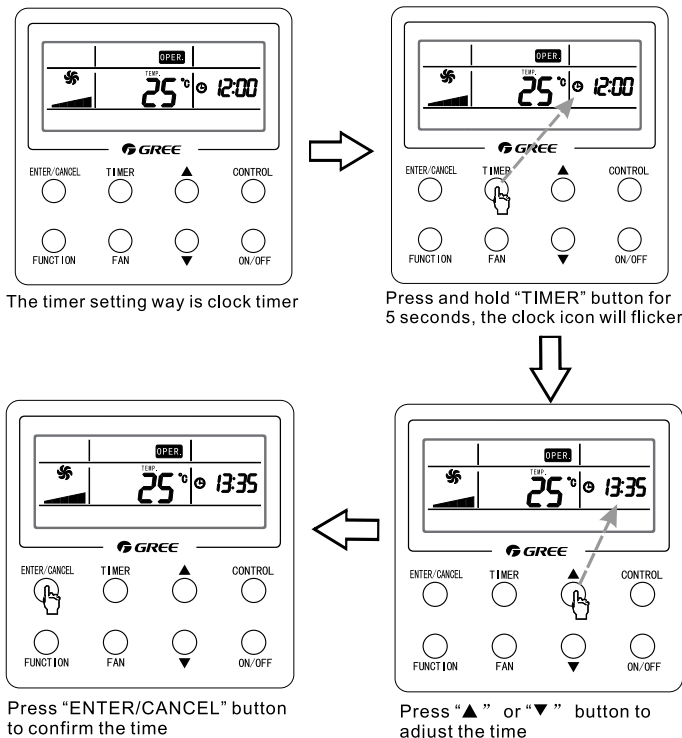


Figure 4-6 Clock Setting

4.7 Setting for Dehumidifying Function

Dehumidifying function: reduce the indoor air humidity.

Turn on dehumidifying function: press “FUNCTION” button to switch to dehumidifying function, the dehumidifying icon “” will flicker, press “ENTER/CANCEL” button to turn on the dehumidifying function.

Cancel dehumidifying function: press “FUNCTION” button to switch to dehumidifying function, and then press “ENTER/CANCEL” button to cancel the dehumidifying function.

4.8 Setting of Humidifying Function

Humidifying Function: increase indoor air humidity.

Turn on humidifying function: press “FUNCTION” button to switch to humidifying function, the humidifying icon “” flickers, at the same time the air parameter area displays the humidity setting value; through “▲” or “▼” button can adjust the humidity setting value, the adjusting precision is 5%, and adjustable range is 30%-70%; press “ENTER/CANCEL” button can turn on the humidity function, and save the setting value.

Cancel humidifying function: press “FUNCTION” button to switch to humidifying function, the humidifying icon “” will flicker, press “ENTER/CANCEL” button can cancel the humidifying function.

4.9 Setting of Health Function

Health function: negative ion function.

Turn on the health function: press “FUNCTION” button can switch to health function, the health icon “” flickers, press “ENTER/CANCEL” button to turn on the health function.

Cancel health function: press “FUNCTION” button to switch to health function, press “ENTER/CANCEL” button to cancel the health function.

4.10 Setting of Long-distance Shielding Function

Long-distance shielding function: long-distance monitor or centralized controller can shield the related remote control or button operation functions of wired controller, thus the operation is invalid, so as to achieve long-distance control.

Long-distance shielding function is divided into entirely shielding and partially shielding. When in entirely shielding, all the button operations of wired controller are invalid. When in partial shielding, the button operations which are shielded are invalid. When the long-distance monitor or centralized controller conduct long-distance shielding of wired controller, the “” icon displays. When user conduct button operation of wired controller, the “” icon will flicker to remind the user.

4.11 Setting of Child Lock Function

Under power-on or power-off status without error, press “▲” and “▼” buttons simultaneously for 5 seconds, the wired controller will enter into child lock function, and liquid crystal screen will display “”; press “▲” button and “▼” button again simultaneously for 5 seconds can quit the child lock function.

Under child lock status, other buttons will make no response to any operation.

4.12 Filter Replace Reminding Function

When the unit estimates the filter is used for a certain degree that should be replaced, the “REPLACE” icon flickers to remind the user to replace the filter. After replacing the filter, press and hold “ENTER/CANCEL” button for 5 seconds can eliminate the filter replace prompt.

4.13 Filter Washing Reminding Function

When the unit estimates the filter is used for a certain degree that should be washed, the “CLEAN” icon flickers to remind the user to wash the filter. After washing the filter, press and hold “ENTER/CANCEL” button for 5 seconds can eliminate the filter washing prompt.

4.14 Display and Inquiry of Air Quality Parameter

When the unit connects to air box, the display board will automatically display the air quality level and related air quality parameters, then the PM2.5 density (Unit $\mu\text{g}/\text{m}^3$), density of carbon dioxide (Unit ppm), temperature (default unit is degree Celsius), humidity (relative humidity, shown as percentage) will circularly display, as below:

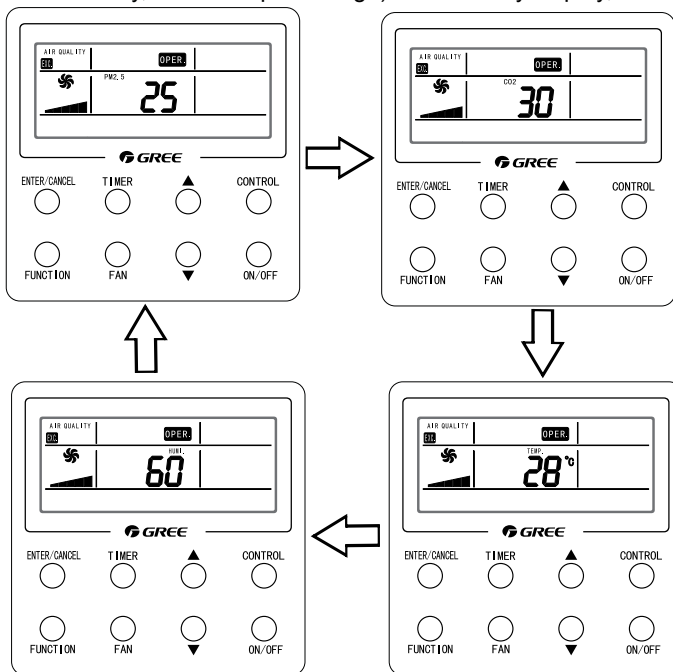


Figure 4-7 Display of Air Quality Parameter

When the unit connects to two air boxes, if the master box has been set, it will acquiescently display the air level and parameters detected by master air box, you can press “▲” or “▼” button to switch and view the other air box, meanwhile, the timer area will display the corresponding address dial code of the corresponding air box, for example, it displays H1, it means the address dial code is 1. If there is no operation for 20 seconds, it will return to the acquiescent display status.

NOTES:

- ① When it is just energized, the air box requires a certain period of time to conduct detection, then the air parameter area of wired controller will display “ — — — — ”, which means the detection has not finished, after the detection is finished, it will display corresponding air parameters.
- ② When the automatic control sensor setting (P59) is “CO2 sensor”, the air parameter area of wired controller doesn't display the concentration of PM2.5.

4.15 Group Control Function

The wired controller can achieve group control function, that is, one wired controller can simultaneously control ON/OFF of multiple units; it can control 16 sets of indoor units at most.

NOTE:

When the wired controller needs to control multiple units, the indoor unit should connect to multi-VRF outdoor unit or virtual outdoor unit to conduct address allocation.

4.16 Sleep Mode Setting

Sleep mode setting: Set “P56” as sleep mode to turn on or turn off sleep mode (refer to 3.5.2 parameter setting for the setting method) .

Sleep mode time area setting: Set “P57” and “P58” as start and end time of sleep mode respectively (refer to 3.5.2 parameter setting for the setting method).

When using the wired controller to turn on the sleep mode, in the sleep time area (between the start time and the end time of sleep mode), the fan speed automatically switches to the low fan speed; when it reached to the end time of sleep mode, it resumes original fan speed. If user manually changes the fan speed in the sleep mode time area, the sleep mode is invalid. The unit operates at the set fan speed. It will automatically resumes the sleep mode when it reached to the start time of sleep mode again.

5 Error Code

When the unit has error during operation, the air parameter display area of wired controller will display error code, when there are multiple errors, it will circularly display the error codes. For contents of error code please see the following error code list, for example, the following figure refers to communication error.

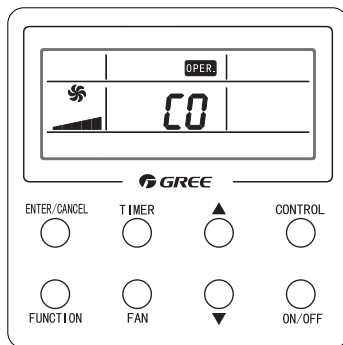


Figure 5-1 Error Display

Table1 Error Code List

Displayed Code	Contents	Displayed Code	Contents
dL	Fresh air outlet temperature sensor error	y7	Fresh air inlet temperature sensor error
L4	Supply current protection	L8	Power insufficiency protection
L9	Quantity of group control indoor units setting error	LA	Group control indoor unit incompatibility error
d1	IDU circuit board error	d3	Indoor ambient temperature sensor error
d9	Jumper cap error	dA	Indoor network address error
dH	Wired controller circuit board error	dC	Capacity DIP switch setting error
db	Engineering debugging	C0	Communication error
C5	Alarm of indoor unit project number collision	L5	Anti-frosting protection
y8	Indoor air box sensor error	b8	Outdoor humidity sensor error
d7	Indoor humidity sensor error	yA	IFD error
L1	Motor error	CP	Multiple master wired controller error

NOTE:

When errors occur, please turn off the unit, and seek for professional personnel to maintain.



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