



Owner's Manual

Original Instructions INVERTER
Commercial Air Conditioners

Controller for Inverter Modular Air-cooled Chillers (Wide Operation Range)

Thank you for choosing commercial air conditioners. 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@cn.gree.com 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 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.
- (2) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation without further notice.
- (3) 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.

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1 General introduction



(This picture is just for reference and the border only indicates its shape.)

It uses the capacitor type touch screen for information input. The effective touch area is the middle rectangular part.

As the flexibility of the control panel is quite high, it would make an accidental response when there is foreign matter on the surface of the control panel.

Therefore, please keep the both the touch screen and the finger clean during operation. Also, please keep the control panel far away from the source of high intensity electromagnetic interference.

Note: the function for the press button at the upper right corner is reserved and there will no response to this operation. This picture as shown above is just for reference.

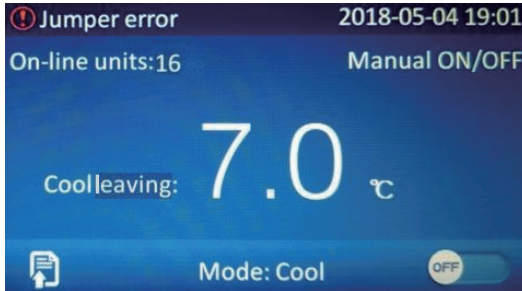
1.1 Homepage



Homepage

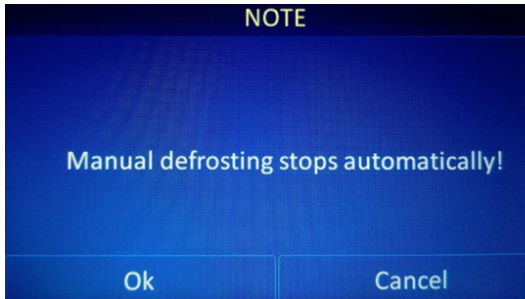
| No. | Function description |
|-----|---|
| 1 | Unit name, error icon and name, BMS alert |
| 2 | Year, month, day, hour, and minute |
| 3 | Quantity of the on-line units |
| 4 | ON/OFF mode |
| 5 | Temperature set point under the corresponding control mode |
| 6 | Menu icon |
| 7 | It is intended to move the cursor right. |
| 8 | On/Off key. When "Contact ON/OFF" or ON/OFF timer has been activated, ON/OFF status will change with the actual status of the unit. |

- (1) It is defaulted to keep at the homepage.
- (2) Touching the menu icon is able to access to the menu page.
- (3) Generally the unit name is displayed at the left upper corner of the control panel. If there is BMS communication, the BMS alert "**Remote control:Exist**" and the unit name will be displayed circularly in five minutes.
- (4) Generally the unit name is displayed at the left upper corner of the control panel. If there are errors, their icons and names will be displayed circularly (one time every second) instead.



[Notes]

When there is no any operation in ten minutes at any page, except the warning pages as shown in the figure below, it will automatically back to the homepage.



1.2 Menu page

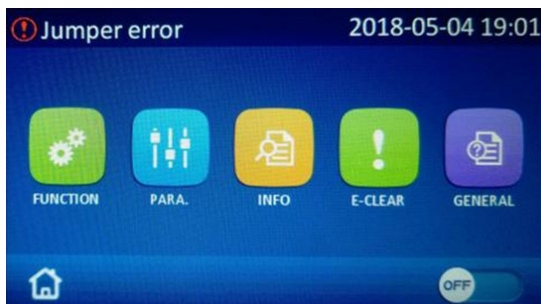


Menu page

| No. | Item | Functional description |
|-----|---------------|---|
| 1 | FUNCTION | It is used to access to the function setting pages. |
| 2 | PARA. | It is used to access to the parameter setting pages. |
| 3 | INFO | It is used to access to the information viewing pages. |
| 4 | E-CLEAR | It is used to access to the error clearing and "Unlock discharge failure" page. |
| 5 | GENERAL | It is used to access to the general setting pages. |
| 6 | Homepage icon | It is used to go back to the homepage. |
| 7 | ON/OFF key | On/Off key. When "Contact ON/OFF" or ON/OFF timer has been activated, ON/OFF status will change with the actual status of the unit. |

[Notes]

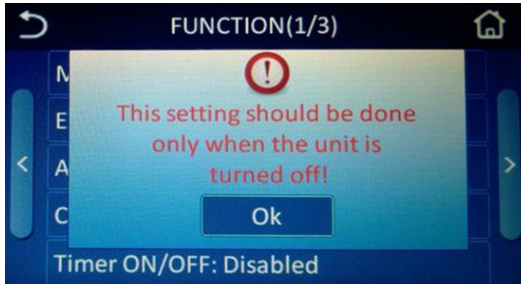
- (a) The unit status will be displayed at the left upper corner of the control panel.
- (b) Generally the unit name is displayed at the left upper corner of the control panel. If there is BMS communication, the BMS alert "**Remote control:Exist**" and the unit name will be displayed circularly in five minutes.
- (c) Generally the unit name is displayed at the left upper corner of the control panel. If there are errors, their icons and names will be displayed circularly (one time every second) instead.



1.3 Introduction to the pop-up windows

When any operation fails or is incorrect, a window will pop up.

- (1) When this is any pop-up window, except touching "OK", any other touching is ineffective. Then, the pop-up window would disappear and normal operation to the control panel resumes.
- (2) When it is detected that there is no any operation in ten seconds after a window pops up, it will disappear and normal operation to the control panel resumes.



1.4 Backlight

When it is deactivated, the control panel will automatically light off 5 minutes later after there is no any operation to the control panel. Any touching to the effective area will again light on the control panel.

When this function is activated, the control panel will be lighted on always.

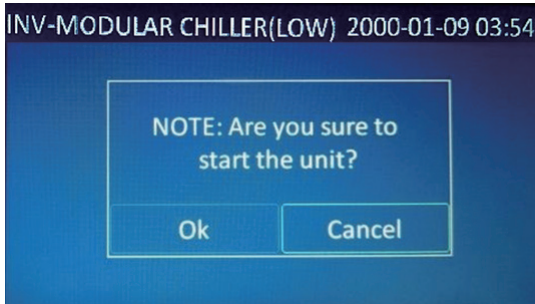
It is suggested to deactivate it to extend the service life.

2 Operation instructions

For functions unavailable for this unit, "N/A" will be displayed or they cannot be set during operation.

2.1 On/Off

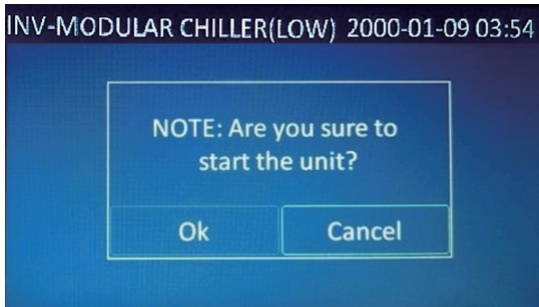
At the homepage and menu page when the unit is "OFF", by touching "ON/OFF", the control panel will access to the following page.



Press “OK” and then the control panel will access to the following “ON” page.



At the homepage and menu page when the unit is “ON”, by touching “ON/OFF”, the control panel will access to the following page.



Press “OK” and then see the page below.

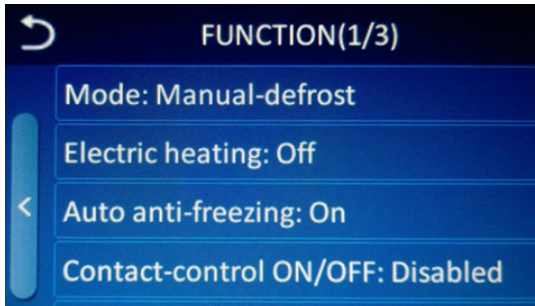


[Notes]

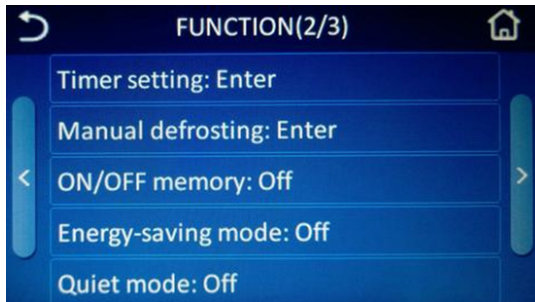
Upon first power-on, the On/Off status will not be memorized. However, once “ON/OFF memory” is set to “ON” at the function setting page the On/Off status will be memorized upon next power-on. When “ON/OFF memory” is set to “No”, the control panel will keep OFF status upon next each power-on, as shown in the figure above.

2.2 Functions

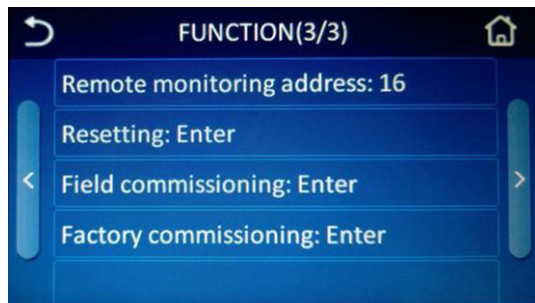
At the menu page, it will go to the parameter setting page by touching “FUNCTION”, as shown in the figure below.



Function page 1



Function page 2



Function page 3

At the function setting page, the last page or next page icon allows the control panel accessing to the last or next function page; the homepage icon allows going back to the homepage; and the back icon allows to the super-menu page.

At the function setting page, touching the desired function option will access to the corresponding function setting page.

At the desired function setting page, touching “OK” will save the setting and touching “Cancel” will exit this setting. Meanwhile the control panel will back to the function setting page under both conditions.

[Notes]

- (a) When there is submenu for the desired function option, by touching it, the control panel will access to the sub-menu setting page.
- (b) At the setting page, press **"OK"** finish and save this setting. However, in this case, there will be no alert message.
- (c) At the function setting page, when any function status is changed and memorized, it will resume the changed status upon next power-on.

See the table below for more details about each function.

| No. | Name | Range | Interpretation |
|-----|---------------------------|-------------------------------|---|
| 1 | Mode | Manual-defrost; Heat; Cool | It can be set under the OFF status. |
| 2 | Electric heating | Off; On | It is unavailable for the cooling only unit. |
| 3 | Auto anti-freezing | Off; On | / |
| 4 | Contact-control ON/OFF | Disabled; Enabled | / |
| 5 | Timer ON/OFF | Disabled; Enabled | It allows the unit to be timed on or off. |
| 6 | Timer setting | Enter | It is used to set the timer. |
| 7 | Manual defrosting | Enter | It can be set when the unit is off and "Mode" is set to "Manual-defrost". |
| 8 | ON/OFF memory | Off; On | / |
| 9 | Energy-saving mode | Off; On | / |
| 10 | Quiet mode | Off; On | / |
| 11 | Remote monitoring address | 1~255 | / |
| 12 | Resetting | Enter | Except the language setting |
| 13 | Field commissioning | Enter | / |
| 14 | Factory commissioning | Enter | / |

(1) Mode

At the function setting page, when the unit is OFF, by touching **"Mode"**, the control panel will go to the corresponding setting page. Then, select the desired option. After that, by touching **"OK"**, this setting will be saved and the control panel will go back to the function setting page; or by touching **"Cancel"** this setting will not be saved and directly go back to the function setting page.

[Notes]

- (a) For the cooling only unit, only **"Cool"** is available.
- (b) When it is set to **"Manual-defrost"**, it will access to the corresponding setting page. Then, see Section for more details.
- (c) It can be memorized upon power failure.

(2) Electric heating

At the function setting page, by touching **"Electric heating"**, the control panel will go to the corresponding setting page. Then, select the desired option.

After that, by touching **"OK"**, this setting will be saved and the control panel will go back to the function setting page; or by touching **"Cancel"** this setting will not be saved and directly go back to the function setting page.

[Notes]

- (a) It is defaulted to be “Off” upon first power-on.
- (b) This function is unavailable for the cooling only unit.
- (c) It can be memorized upon power failure.
- (3) Auto anti-freezing

At the function setting page, by touching “Auto anti-freezing”, the control panel will go to the corresponding setting page. Then, select the desired option. After that, by touching “OK”, this setting will be saved and the control panel will go back to the function setting page; or by touching “Cancel” this setting will not be saved and directly go back to the function setting page.

[Notes]

- (a) It is defaulted to be “On” upon first power-on
- (b) It can be memorized upon power failure.
- (4) Contact-control ON/OFF

At the function setting page, by touching “Contact-control ON/OFF”, the control panel will go to the corresponding setting page. Then, select the desired option. After that, by touching “OK”, this setting will be saved and the control panel will go back to the function setting page; or by touching “Cancel” this setting will not be saved and directly go back to the function setting page.

[Notes]

- (a) It is defaulted to be “Off” upon first power-on.
- (b) It can be memorized upon power failure.
- (5) Timer ON/OFF

At the function setting page, by touching “Timer ON/OFF”, the control panel will go to the corresponding setting page. Then, select the desired option. After that, by touching “OK”, this setting will be saved and the control panel will go back to the function setting page; or by touching “Cancel” this setting will not be saved and directly go back to the function setting page.

[Notes]

- (a) It is defaulted to be “Off” upon first power-on.
- (b) When “Contact-control ON/OFF” has been activated, “Timer ON/OFF” will be automatically be deactivated.
- (c) When it has been activated, it will access to the “Timer setting” page. Please see Section 2.2.6 for more details.
- (d) It can be memorized upon power failure.
- (6) Timer setting

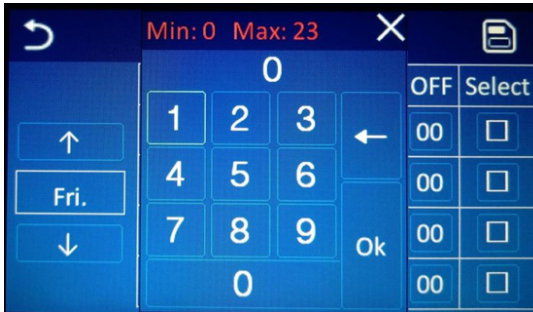
At the function setting page, by touching “Timer setting”, the control panel will go to the corresponding setting page, as shown in the figure below.



Select the week day from Monday to Sunday by the “↑” and “↓” keys.

There are four time periods for each week day. Each time period can be set to ON or OFF.

Touch the desired time point and input the hour and minute (as shown in the figure below).



Then, touch “” under “Select” to make it turn to “”, which then indicates the corresponding period has been invalidated.



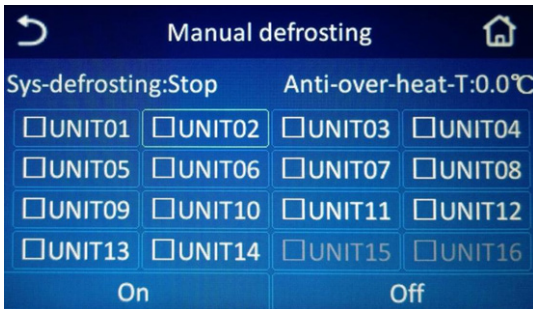
After that, press the saving icon at the upper right corner to save this setting, or press the back icon at the upper left corner to give up this setting.

(7) Manual defrosting

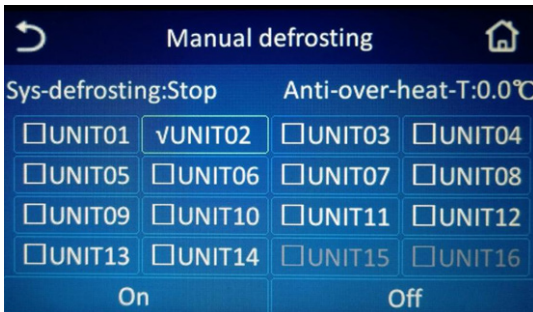
At the function setting page, by touching “**Manual-defrost**”, the control panel will access to the page as shown below.



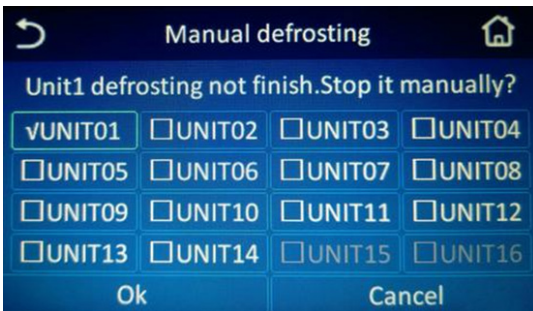
Select the unit in need of defrosting. Once “□” turns green, it indicates this unit has been selected. Two or more units cannot be selected at the same time.



Enable the defrosting function of the selected unit. When “□” turns to “√”, it indicates manual defrosting function for this unit has started as shown in the figure below.



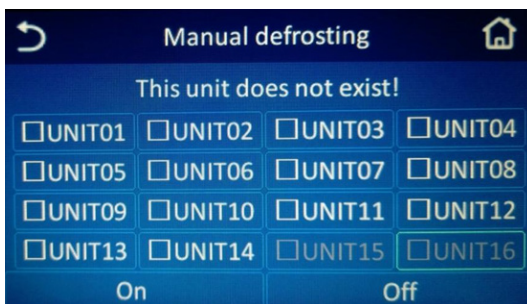
When disable the defrosting function for this unit, there will be a pop-up window, saying, “Unit XX defrosting has not finished, are you sure to stop it manually?” as shown in the figure below.



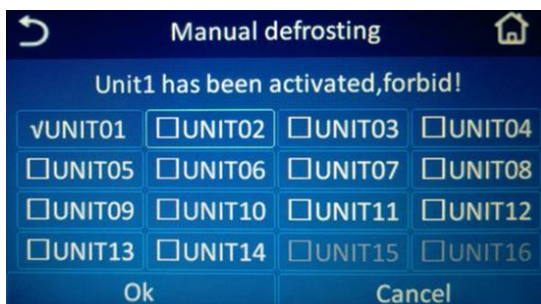
By pressing “OK”, manual defrosting will be deactivated, with “√” changed to “□”.

[Notes]

- (a) Before activating this function, “Mode” should be firstly set to “Manualdefrost”.
- (b) At the unit selection page, the on-line units are in white color and those off-line are in grey.
- (c) This function setting is unavailable to the off-line units.



(d) Do not activate this function for two or more units.



(e) When this function has been enabled for five minutes, however the unit fails to perform defrosting.

Then, this function will be disabled, also warning **"Manual defrosting stops automatically!"**

(f) When this function has been enabled, however actual defrosting will be delayed for some time.

(8) ON/OFF memory

At the function setting page, by touching **"ON/OFF memory"**, the control panel will go to the corresponding setting page. Then, by touching **"OK"**, default parameters will be put into use; or by touching **"Cancel"** the control panel will go back to the function setting page; or by touching **"Cancel"** this setting will not be saved and directly go back to the function setting page.

(9) Energy-saving mode

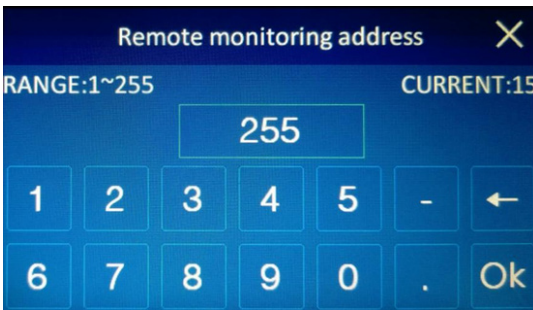
At the function setting page, by touching **"Energy-saving mode"**, the control panel will go to the corresponding setting page, where it can be set to be **"On"** or **"Off"**. Then, by touching **"OK"**, default parameters will be put into use; or by touching **"Cancel"** the control panel will go back to the function setting page; or by touching **"Cancel"** this setting will not be saved and directly go back to the function setting page.

(10) Quiet mode

At the function setting page, by touching **"Quiet mode"**, the control panel will go to the corresponding setting page, where it can be set to be **"On"** or **"Off"**. Then, by touching **"OK"**, default parameters will be put into use; or by touching **"Cancel"** the control panel will go back to the function setting page; or by touching **"Cancel"** this setting will not be saved and directly go back to the function setting page.

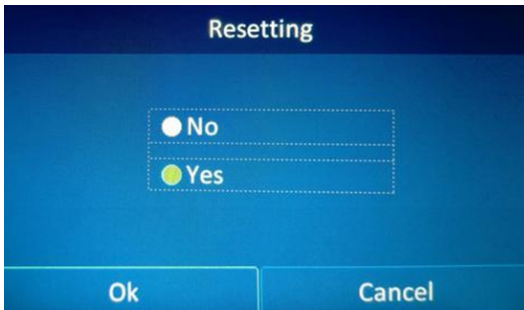
(11) Remote monitoring address

At the function setting page, by touching “**Resetting**”, the control panel will go to the corresponding setting page, as shown below. Then, by touching “**Yes**”, default parameters will be put into use; or by touching “**No**” / “**Cancel**”, the control panel will go back to the function setting page.



(12) Resetting

At the function setting page, by touching “**Resetting**”, the control panel will go to the corresponding setting page, as shown below. Then, by touching “**Yes**”, default parameters will be put into use; or by touching “**No**” / “**Cancel**”, the control panel will go back to the function setting page.



[Notes]

- (a) After this setting, all parameters at the user parameter setting page will go back to the default setting.
- (b) After this setting, except clock timer and language at the “**General**” setting page, all will go back to the default setting.
- (c) After this setting, all parameters at the parameter setting page except “**Timer setting**” and “**Manual defrost**” will go back to the default setting.
- (d) It will not function on “**Field commissioning**” and “**Factory commissioning**”.

(13) Field commissioning

At the function setting page, by touching “**Field commissioning**”, the control panel will go to the password input page. Then, by entering correct passwords, it will access to the “**Field commissioning**” page, which is used mainly for system parameter setting for repair and maintenance.

[Notes]

Arbitrary change to “**Field commissioning**” will bring series adverse effect to the unit. Therefore, no one is allowed to do this except the approved qualified servicemen.

(14) Factory commissioning

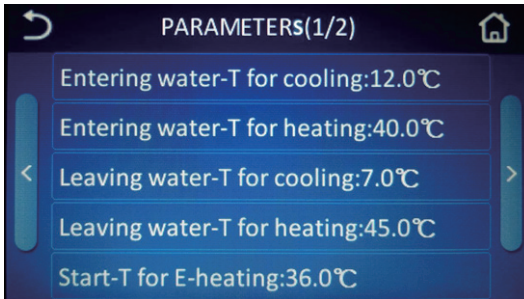
At the function setting page, by touching “**Factory commissioning**”, the control panel will go to the password input page. Then, by entering correct passwords, it will access to the “**Factory commissioning**” page, which is used mainly for repair and maintenance by after-sales servicemen.

[Notes]

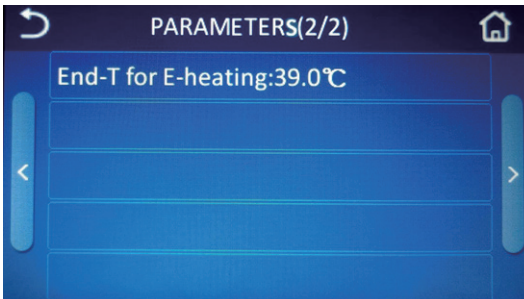
Arbitrary change to “**Factory commissioning**” will bring series adverse effect to the unit. Therefore, no one is allowed to do this except the approved qualified servicemen.

2.3 Parameter

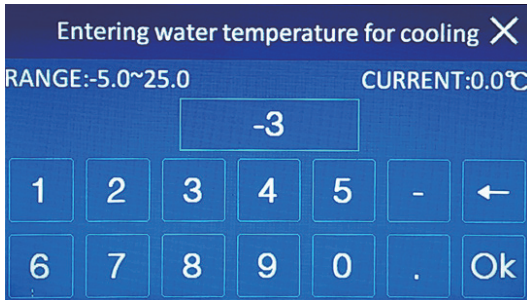
At the menu page, by touching “**PARA.**”, the controller will access to the parameter setting page, as shown in the figure below.

**Parameter setting page 1**

At the parameter setting page, by touching the last page and next page icons, the desired setting page can be selected.

**Parameter setting page 2**

By touching the desired parameter, the controller will access to the corresponding setting pages as shown in the figure below. After that, by touching "OK", this setting will be saved and the controller will back to the parameter setting page; while by touching "Cancel", this setting will not be saved but the controller will back to the parameter setting page.



[Notes]

- (a) For the parameters with different defaults under different conditions, when the constraint (like, unit type) changes, the parameter will back to the default value under the corresponding condition.
- (b) When setting for the current parameter is unavailable, "N/A" will be displayed.
- (c) The numerical keypad includes digits from "0~9", "-", ".", "OK" and the backspace key.
- (d) When the input value is out of the setting range or accuracy of the input value is inconsistent with that of the rated, continuous input will fail or there will be corresponding alert, and also the input value will be automatically deleted.

See the table below for the user parameters.

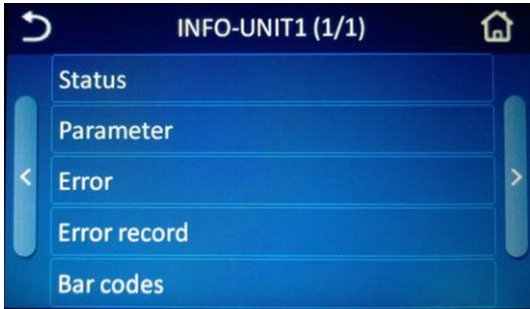
| No. | Full name | Displayed name |
|-----|--|------------------------------|
| 1 | Entering water temperature for cooling | Entering water-T for cooling |
| 2 | Entering water temperature for heating | Entering water-T for heating |
| 3 | Leaving water temperature for cooling | Leaving water-T for cooling |
| 4 | Leaving water temperature for heating | Leaving water-T for heating |
| 5 | Start temperature for E-heating | Start-T for E-heating |
| 6 | End temperature for E-heating | End-T for E-heating |

2.4 Information

At the menu page, by touching "INFO", the control panel will go to the following page.



At the above page, by selecting the desired unit, the control panel will go to the following page.

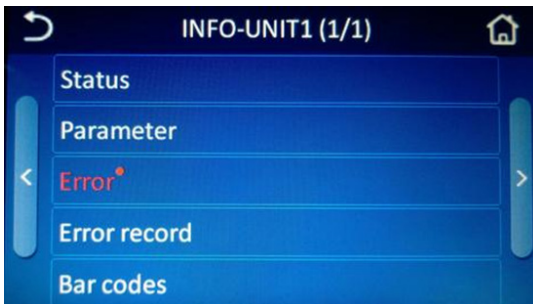


[Notes]

- (a) It is only available for the on-line units, namely those in white.
- (b) When there is some error, the corresponding unit will be in red and there will be a red point at its upper right corner.



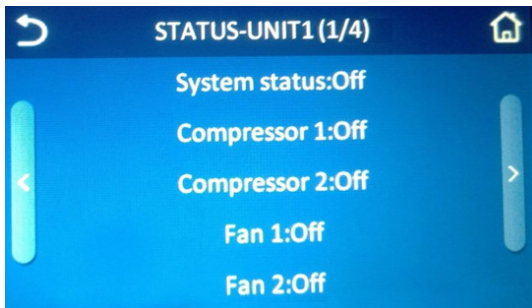
Red indicator



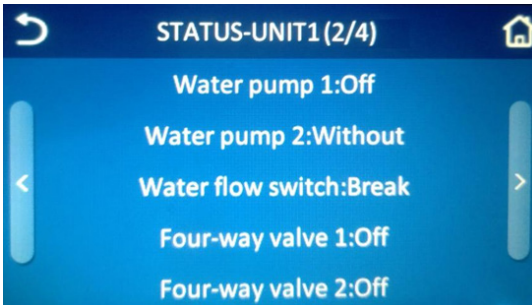
Unit with a red point

(1) Status

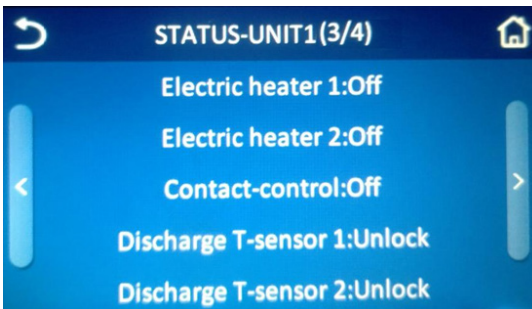
By touching "Status", the control panel will go to the stats pages, where it is able to check the running status of the unit.



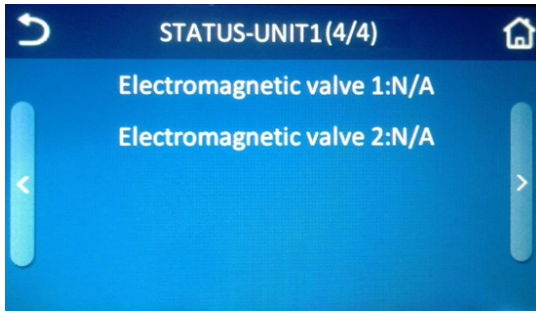
Status page 1



Status page 2



Status page 3



Status page 4

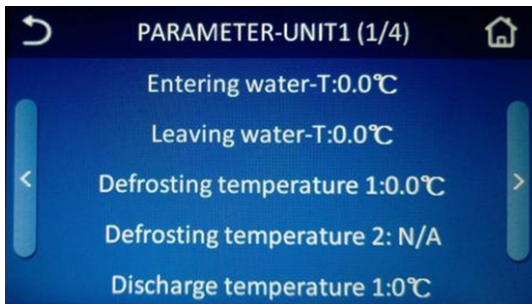
| No. | Nmae | Status | No. | Nmae | Status |
|-----|-------------------|---|-----|-------------------------|-------------|
| 1 | System status | Off; Cooling; Heating; Defrosting; Automatic antifreeze | 10 | Four-way valve 2 | On; Off |
| 2 | Compressor 1 | On; Off | 11 | Electric heater 1 | On; Off |
| 3 | Compressor 2 | On; Off | 12 | Electric heater 2 | On; Off |
| 4 | Fan 1 | On; Off | 13 | Contact-control | Open/Break |
| 5 | Fan 2 | On; Off | 14 | Discharge T-sensor 1 | Unlock/Lock |
| 6 | Water pump 1 | On; Off | 15 | Discharge T-sensor 2 | Unlock/Lock |
| 7 | Water pump 2 | On; Off; Without | 16 | Electromagnetic valve 1 | On; Off |
| 8 | Water flow switch | Open/Break | 17 | Electromagnetic valve 2 | On; Off |
| 9 | Four-way valve 1 | On; Off | | | |

[Notes]

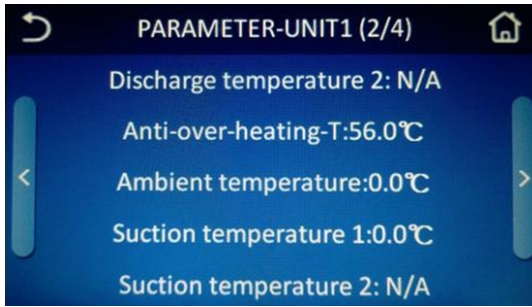
- (a) "N/A" will be displayed for the status which is unavailable for the corresponding unit.
- (b) When "Alternation function" is set to "Off", "Water pump 2" will be defaulted to be "Without".

(2) Parameter

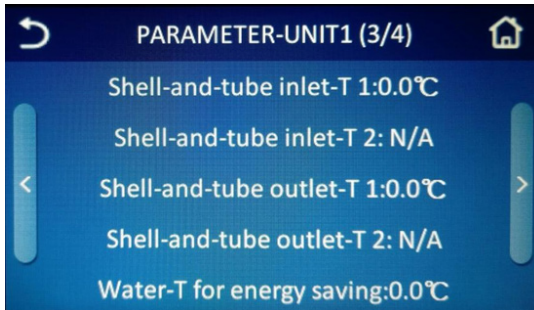
By touching "Parameter", the controller will access to the parameter checking page.



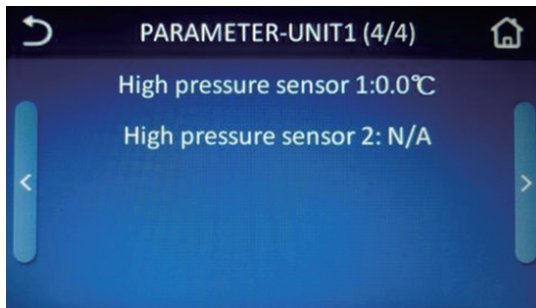
Parameter page 1



Parameter page 2



Parameter page 3



Parameter page 4

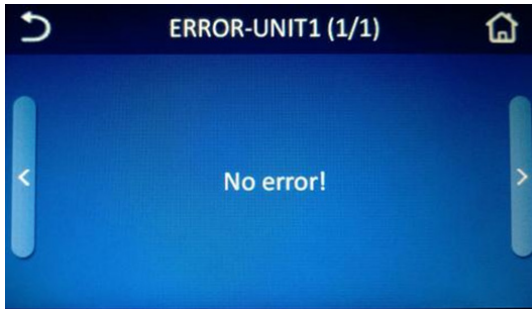
| No. | Name | No. | Name |
|-----|--------------------------|-----|---------------------------|
| 1 | Entering water-T | 10 | Suction temperature 1 |
| 2 | Leaving water-T | 11 | Suction temperature 2 |
| 3 | Defrosting temperature 1 | 12 | Shell-and-tube inlet-T 1 |
| 4 | Defrosting temperature 2 | 13 | Shell-and-tube inlet-T 2 |
| 5 | Discharge temperature 1 | 14 | Shell-and-tube outlet-T 1 |
| 6 | Discharge temperature 2 | 15 | Shell-and-tube outlet-T 2 |
| 7 | Anti-freezing-T | 16 | Water-T for energy saving |
| 8 | Anti-over-heating-T | 17 | High pressure sensor 1 |

| No. | Name | No. | Name |
|-----|---------------------|-----|------------------------|
| 9 | Ambient temperature | 18 | High pressure sensor 2 |

[Notes]

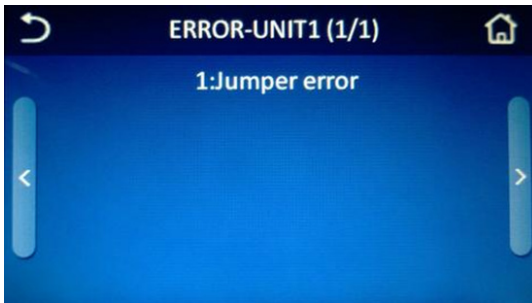
- (a) "N/A" will be displayed when the temperature value for the corresponding mode or unit does not exist or is invalid.
- (b) For no. 7 and 8 in the table above, when "Mode" is set to "Cool", only "Antifreezing-T" will be displayed; when "Mode" is set to others, only "Anti-overheating-T" will be displayed.
- (3) Error

By touching "Error", the control will access to the error check page. When there is no any error, the control panel will show as below.



[Notes]

The controller can display real-time errors and all real-time errors can be displayed there.



When the quantity of error exceeds 5, by touching the last or next page icon, the desired error can be checked.

See the table below for the error list.

| No. | Displayed name | Full name |
|-----|---------------------|---|
| 1 | Jumper error | Jumper error |
| 2 | Air-Con Water-FS | Air conditioning water flow switch error |
| 3 | Sys1 H-discharge-T | Protection against high discharge temperature of system 1 |
| 4 | Sys2 H-discharge-T | Protection against high discharge temperature of system 2 |
| 5 | Dis-TS1 malfunction | Discharge temperature sensor error of system 1 |
| 6 | Dis-TS2 malfunction | Discharge temperature sensor error of system 2 |

Controller for Inverter Modular Air-cooled Chillers (Wide Operation Range)

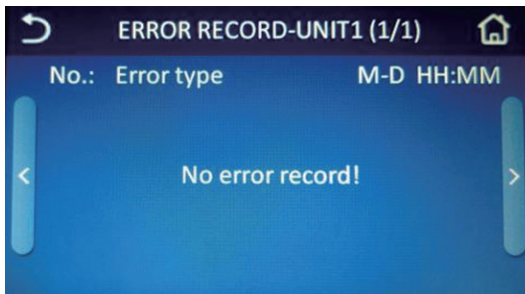
| No. | Displayed name | Full name |
|-----|------------------------|---|
| 7 | Sys1 high pressure | Protection against high pressure of system 1 |
| 8 | Sys2 high pressure | Protection against high pressure of system 2 |
| 9 | Sys1 low pressure | Protection against low pressure of system 1 |
| 10 | Sys2 low pressure | Protection against low pressure of system 2 |
| 11 | Entering water TSE | Entering water temperature sensor error |
| 12 | Leaving water TSE | Leaving water temperature sensor error |
| 13 | Anti-F/anti-H TSE | Anti-freeze/anti-over-heating temperature sensor error |
| 14 | Ambient TSE | Ambient temperature sensor error |
| 15 | Defrosting TSE1 | Defrosting temperature sensor of system 1 |
| 16 | Defrosting TSE2 | Defrosting temperature sensor of system 2 |
| 17 | Discharge TSE1 | Discharge temperature sensor error of system 1 |
| 18 | Discharge TSE2 | Discharge temperature sensor error of system 2 |
| 19 | Shell&tube inlet TSE1 | Shell-and-tube inlet temperature sensor error of system 1 |
| 20 | Shell&tube inlet TSE2 | Shell-and-tube inlet temperature sensor error of system 2 |
| 21 | Suction TSE1 | Suction temperature sensor error of system 1 |
| 22 | Suction TSE2 | Suction temperature sensor error of system 2 |
| 23 | Pressure TSE1 | Pressure sensor error of system 1 |
| 24 | Pressure TSE2 | Pressure sensor error of system 2 |
| 25 | Commu-E comp1 | Communication error of the drive board of compressor |
| 26 | Commu-E comp2 | Communication error of the drive board of compressor 2 |
| 27 | Commu-E fan1 | Communication error of the drive board of fan 1 |
| 28 | Commu-E fan2 | Communication error of the drive board of fan 2 |
| 29 | Shell&tube outlet TSE1 | Shell-and-tube outlet temperature sensor error of system 1 |
| 30 | Shell&tube outlet TSE2 | Shell-and-tube outlet temperature sensor error of system 2 |
| 31 | Failure of pump1 | Protection against failure of pump 1 |
| 32 | Failure of pump2 | Protection against failure of pump 2 |
| 33 | Fan1 error | Fan 1 error |
| 34 | Fan2 error | Fan 2 error |
| 35 | Over-current-proF1 | Over-current protection of fixed frequency fan 1 |
| 36 | Over-current-proF2 | Over-current protection of fixed frequency fan 2 |
| 37 | DC under-voltageC1 | DC busbar under-voltage or voltage drop error of compressor 1 |
| 38 | DC over-voltageC1 | DC busbar over-voltage or voltage drop error of compressor 1 |
| 39 | IPM errorC1 | IPM failure of compressor 1 |
| 40 | Startup failureC1 | Startup failure of compressor 1 |

| No. | Displayed name | Full name |
|-----|----------------------|---|
| 41 | Dri-Mod resettingC1 | Drive module resetting of compressor 1 |
| 42 | Comp-Over-currentC1 | Over-current of compressor 1 |
| 43 | Current circuit SEC1 | Current sensing circuit error or current sensor error of compressor 1 |
| 44 | DesynchronizingC1 | Desynchronizing of compressor 1 |
| 45 | Comp-Dri-Comm-EC1 | Communication error to the drive of compressor 1 |
| 46 | HS-IPM-PFC over-TC1 | Heat sink or IPM or PFC overtemperature of compressor 1 |
| 47 | HS-IPM-PFC SEC1 | Heat sink or IPM or PFC temperature sensor error of compressor 1 |
| 48 | Charging circuit-EC1 | Charging circuit error of compressor 1 |
| 49 | DC under-voltageC2 | DC busbar under-voltage or voltage drop error of compressor 2 |
| 50 | DC over-voltageC2 | DC busbar over-voltage or voltage drop error of compressor 2 |
| 51 | IPM errorC2 | IPM failure of compressor 2 |
| 52 | Startup failureC2 | Startup failure of compressor 2 |
| 53 | Dri-Mod resettingC2 | Drive module resetting of compressor 2 |
| 54 | Comp-Over-currentC2 | Over-current of compressor 2 |
| 55 | Current circuit SEC2 | Current sensing circuit error or current sensor error of compressor 2 |
| 56 | DesynchronizingC2 | Desynchronizing of compressor 2 |
| 57 | Comp-Dri-Comm-EC2 | Communication error to the drive of compressor 2 |
| 58 | HS-IPM-PFC over-TC2 | Heat sink or IPM or PFC overtemperature of compressor 2 |
| 59 | HS-IPM-PFC SEC2 | Heat sink or IPM or PFC temperature sensor error of compressor 2 |
| 60 | Charging circuit-EC2 | Charging circuit error of compressor 2 |
| 61 | DC under-voltageF1 | DC busbar under-voltage or voltage drop error of fan 1 |
| 62 | DC over-voltageF1 | DC busbar over-voltage or voltage drop error of fan 1 |
| 63 | IPM errorF1 | IPM failure of fan 1 |
| 64 | Startup failureF1 | Startup failure of fan 1 |
| 65 | Dri-Mod resettingF1 | Drive module resetting of fan 1 |
| 66 | Fan-Over-currentF1 | Over-current of fan 1 |
| 67 | Current circuit SEF1 | Current sensing circuit error or current sensor error of fan 1 |
| 68 | DesynchronizingF1 | Desynchronizing of fan 1 |
| 69 | Fan-Dri-Comm-EF1 | Communication error to the drive of fan 1 |
| 70 | HS-IPM-PFC over-TF1 | Heat sink or IPM or PFC overtemperature of fan 1 |
| 71 | HS-IPM-PFC SEF1 | Heat sink or IPM or PFC temperature sensor error of fan 1 |
| 72 | Charging circuit-EF1 | Charging circuit error of fan 1 |
| 73 | DC under-voltageF2 | DC busbar under-voltage or voltage drop error of fan 2 |

| No. | Displayed name | Full name |
|-----|----------------------|--|
| 74 | DC over-voltageF2 | DC busbar over-voltage or voltage drop error of fan 2 |
| 75 | IPM errorF2 | IPM failure of fan 2 |
| 76 | Startup failureF2 | Startup failure of fan 2 |
| 77 | Dri-Mod resettingF2 | Drive module resetting of fan 2 |
| 78 | Fan-Over-currentF2 | Over-current of fan 2 |
| 79 | Current circuit SEF2 | Current sensing circuit error or current sensor error of fan 2 |
| 80 | DesynchronizingF2 | Desynchronizing of fan 1 |
| 81 | Fan-Dri-Comm-EF2 | Communication error to the drive of fan 2 |
| 82 | HS-IPM-PFC over-TF2 | Heat sink or IPM or PFC overtemperature of fan 2 |
| 83 | HS-IPM-PFC SEF2 | Heat sink or IPM or PFC temperature sensor error of fan 2 |
| 84 | Charging circuit-EF2 | Charging circuit error of fan 2 |

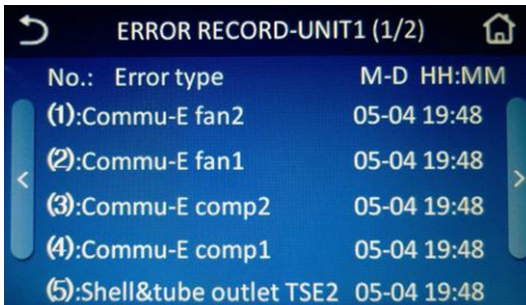
(4) Error records

By touching “**Error record**”, the controller will access to the current error record page.



[Notes]

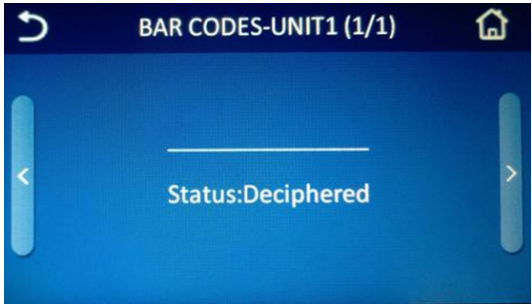
Each error record includes the error number, error name, month, day, hour, and minute. The latest error lists in the top.



At most 10 pieces of error records can be saved for each unit. When it exceeds 10, the earlier ones will be deleted, which will not affect the error records of any other units.

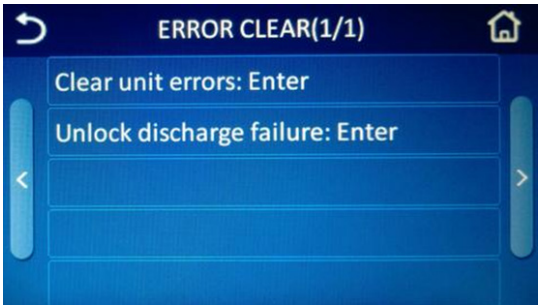
(5) Bar codes

By touching “**Bar code**”, it will go to the bar codes page, as shown in the figure below.



2.5 E-clear

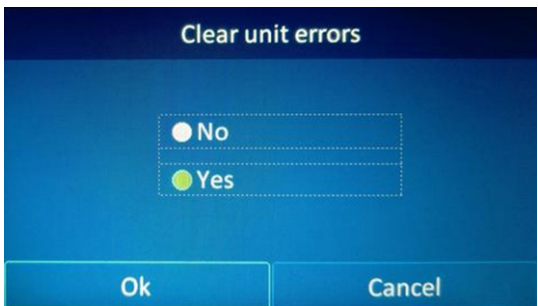
At the menu page, touching “**E-clear**”, it will access to the error clear page. At this page, it is able to operate error clearing and discharge failure unlocking.



Clear unit errors

At the ERROR CLEAR page, by touching “**Clear unit errors**”, the control panel will access to the page as shown below. Then, by selecting “**Yes**” and “**OK**”, this operation will succeed and go back to the ERROR CLEAR page.

At the ERROR CLEAR page, by touching “**Unlock discharge failure**”, the control panel will access to the page as shown below. Then, by selecting “**Yes**” and “**OK**”, the discharge failure will be unlocked; or by selecting “**Cancel**”, this operation will quit and go back to the ERROR CLEAR page.



[Notes]

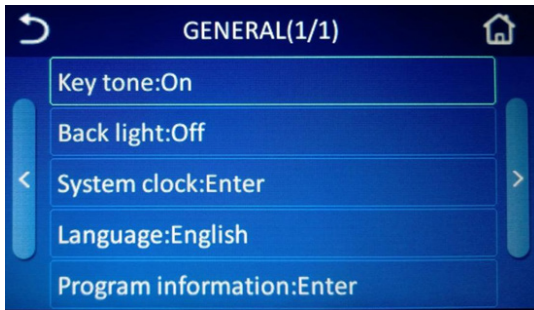
- (a) When touching “Yes” and then “OK”, this operation will succeed.
- (b) When touching “No” or “Cancel”, this operation will quit and the unit will do not do any operation.
- (c) After this operation, all recovered errors for all on-line units will be cleared; for those unrecovered, there will still be alerts.

[Notes]

When the error of discharge failure has been eliminated, this setting can unlock the discharge failure and the corresponding locked unit can be restarted.

2.6 General

At the function setting page, by touching “GENERAL”, the control panel will go to the corresponding setting page, where system clock, key tone and backlight and other general functions can be set, as shown in the figure below.



General page 1

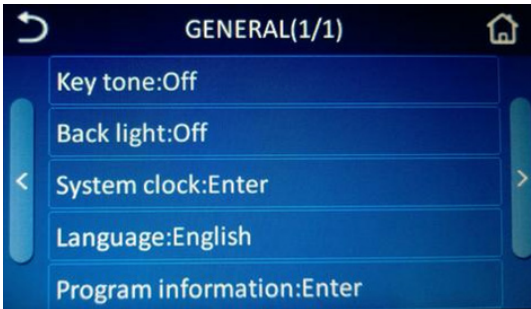
| No. | Function | Range | Dafault | Remarks |
|-----|---------------------|--------------------------------------|----------------------|---|
| 1 | Key tone | On/Off | On | / |
| 2 | Back light | On/Off | Off | “On” indicates the controller will always light on. “Off” indicates that when it is detected that there is no any operation in five minutes the controller will light off. |
| 3 | System clock | System clock | / | / |
| 4 | Language | Chinese (中文)/ English (English) | English (English) | / |
| 5 | Program information | Enter | / | / |

(1) Key tone

At the function setting page, by touching “GENERAL”, the control panel will go to the corresponding setting page. Then, by touching “Key tone”, it can be set to “On” or “Off”, as shown in the figure below.



General page with activated key tone



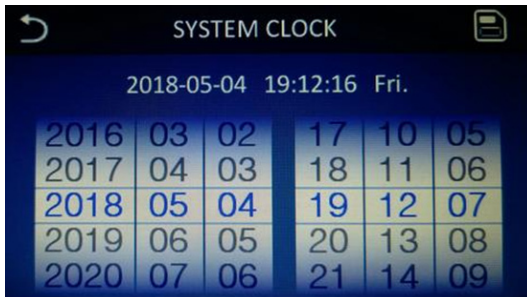
General page with deactivated key tone

(2) Backlight

Refer to Section 1.4

(3) System lock

At the function setting page, by touching “GENERAL”, the control panel will go to the corresponding setting page. Then, by touching “System clock”, the controller will access to the system clock setting page, as shown in the figure below.



The setting value for the system clock can be changed by the sliding the blue digits. Then, by touching the saving icon, this setting will be saved and rightly take effective. While, by touching the back icon, this setting will not be saved and the controller will back to the general setting page.



(4) Language setting

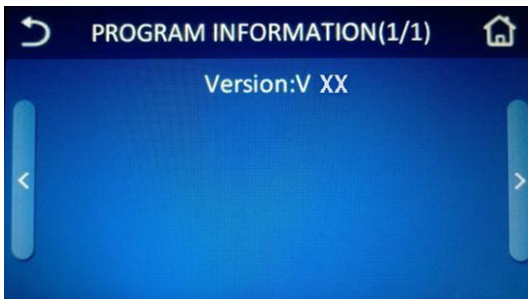
At the function setting page, by touching “GENERAL”, the control panel will go to the corresponding setting page. Then, by touching “Language”, the controller will access to the language setting page, as shown in the figure below.



Select the desired language. Then, by touching “OK”, this setting will be saved and take effective; while by touching “Cancel”, this setting will not be saved and the controller will back to the general setting page.

(5) Program information

At the function setting page, by touching “GENERAL”, the control panel will go to the corresponding setting page. Then, by touching “Program information”, the controller will access to the program checking page, as shown in the figure below.



[Notes]

“Version” indicates the program version for the control panel.



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