GREE
Change for life

Owner's Manual

Original Instructions

Dry Contact & 24 Volt Adaptor

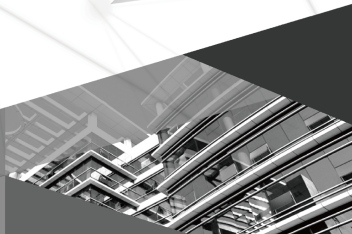
Model:

ME32-33/H

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 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. If there is adjustment in the product, please subject to actual product.

(4) If the product needs to be installed, moved or maintained, please contact our designated dealer or local service center for professional support. Users should not disassemble or maintain the unit by themselves, otherwise it may cause relative damage, and our company will bear no responsibilities.

Contents

1 Safety Notices (Please be sure to abide them) 1
2 Operation Notices 1
3 Functions Overview.....3
4 Detail Introduction 5
4.1 Interface Function Instruction.....5
4.2 Button Instruction 7
4.3 Display Instruction.....7
4.4 Function Instruction.....8
5 Product Installation 20
5.1 Product Dimension.....20
5.2 Installation Procedure 21
5.3 Communication Connection.....23
6 Error Display 32
6.1 Table of Error Codes for Outdoor Unit.....32
6.2 Table of Error Codes for Indoor Unit 35
6.3 Table of Debugging Codes.....38
6.4 Table of Status Codes 40

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 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

NOTE!
(1) This device use 24VAC for power supply. Do not connect other power to this device. Otherwise, it may cause fire hazard or damage to the unit.
(2) Before touching the electric components, please be sure the appliance is disconnected to power.
(3) Never install the appliance in a damp place or allow it to be exposed to direct sunlight.
(4) Never install the appliance near heat source or a place that may easily get splashes of water.
(5) Please install the appliance in a place without electromagnetic interference or dusty particles.
(6) Make sure that the communication wires are connected to the correct ports, otherwise communication failure will occur and may damage the appliance.
(7) Once wires are connected, use insulative tape to protect the wires from oxidation and short circuit.
(8) Working conditions for the appliance: ① Temperature: -20~+60°C; ② Relative humidity: ≤85%; ③ Install it indoors and avoid direct sunlight, rain and snow.
(9) Thermostat should be configured for use with a conventional system (not heat pump).
(10) Functions with "*" are optional for indoor units. If a function is not included in an indoor unit, the adaptor can't set the function, or setting of this function is invalid to the indoor unit.

3 Functions Overview

Dry contact & 24 volt adaptor is applicable for Gree GMV5/GMV6 unit. It can realize two functions:

(1) Transfer the control signal of 24VAC HVAC Thermostat (such as nest) into the control signal of Gree GMV5/GMV6 unit to make the third party 24VAC HVAC Thermostat can control GMV5/GMV6 unit. The device type should be set as “24 Volt Adaptor”. Refer to 4.4.4 parameter setting P01 for details.

(2) The detection function of fire alarm signal and other dry contact’s signal is used for detecting the signals, such as fire alarm and overflow protection of external water tray, for control the shutdown of air conditioner. The device type can be set as “24 Volt Adaptor” or “Dry Contact Adaptor”. Refer to 4.4.4 parameter setting P01 for details.

NOTE:

① In a heat recovery system, if several indoor units are connected to one branch of the mode exchanger, then these indoor units cannot use 24V adaptor. (It can be used only when one indoor unit is connected to each branch.)

② The Dry contact & 24 volt adaptor with version No. V1 cannot work with Gree GMV6 unit; only the Dry contact & 24 volt adaptor with version No. V2 and above can work with Gree GMV6 unit.

Appearance of dry contact & 24 volt adaptor as shown in fig.3.1:



Fig.3.1 Appearance of dry contact & 24 volt adaptor

4 Detail Introduction

4.1 Interface Function Instruction

Schematic diagram of interface of main board and interface function instruction are shown in fig.4.1 and table 4.1 as below:

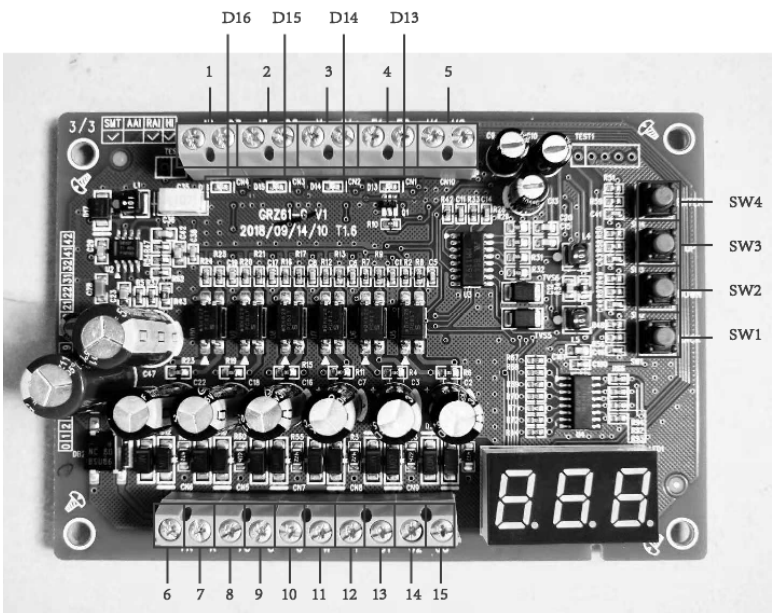


Fig.4.1 Schematic diagram of interface's function

Table 4.1 Function instruction of interface of main board

No.	Interface	Instruction
1	I3, O3	Dry contact 3
2	I2, O2	Dry contact 2
3	I1, O1	Dry contact 1
4	F1, F2	Fire alarm detection
5	H1, H2	HBS communication interface, connecting the indoor unit
6	TR	Supply power for adapter (24VAC)
7	R	Supply power for thermostat (24VAC)
8	TC	Supply power for adapter (Common)
9	C	Supply power for thermostat (Common)
10	G	Fan
11	W	Heating
12	Y	Cooling
13	G1	Low fan speed
14	G2	Medium fan speed
15	G3	High fan speed

4.2 Button Instruction

Function instruction for buttons in fig.4.1 is as below:

Table 4.2 Function instruction for buttons

No.	Buttons name	Button function
SW1	BACK	Return after parameter setting
SW2	DOWN	Decrease parameter setting
SW3	UP	Increase parameter setting
SW4	ENTER	Enter into project parameter setting and confirm parameter setting value

4.3 Display Instruction

(1) Status instruction of LED indicator in fig.4.1 is as below:

Table 4.3 Status instruction of LED indicator on main board

D13	When there's signal for the detection interface of fire alarm, it's on; when the signal of fire alarm disappears, it's off.
D14	When there's signal for dry contact 1, it's on; when the signal of dry contact disappears, it's off.
D15	When there's signal for dry contact 2, it's on; when the signal of dry contact 2 disappears, it's off.
D16	When there's signal for dry contact 3, it's on; when the signal of dry contact 3 disappears, it's off.

(2) 3-bit nixie tube displays on/off status, error code and engineering parameter setting. When turning on the unit, the 3-bit nixie tube displays “on”; when turning off the unit, the 3-bit nixie tube displays “OFF”.

4.4 Function Instruction

4.4.1 Operation Mode

Corresponding operation modes for the input signals of different interfaces on the main board is as below:

Table 4.4 Corresponding operation mode for each input signal

Y	W	G	G1	G2	G3	Mode
√	×	*	*	*	*	Cooling
×	√	*	*	*	*	Heating
×	×	√	*	*	*	Fan
×	×	*	√	*	*	Fan
×	×	*	*	√	*	Fan
×	×	*	*	*	√	Fan
√	√	*	*	*	*	OFF
×	×	×	×	×	×	OFF

NOTES:

① “ √ ” indicates ON; “ × ” indicates OFF; “ * ” indicates ON or OFF.

② System mode priority processing method:

a) When the system mode priority is the master-slave mode, in one system network, you must set one indoor unit as the master indoor unit, Other indoor units are slave indoor units.

b) When the system priority is master-slave mode, the system operation mode is subject to the operation mode of master indoor unit. When the operation mode of slave indoor unit is conflicting with the system operation mode, the operation mode of slave indoor unit will automatically change to the system operation mode. (If the thermostat connects with the slave indoor unit, the mode displayed on the thermostat and the actual operation mode of the indoor unit is inconsistent when there's mode conflict. The actual operation mode of indoor unit is kept the same with the system mode).

c) When the system mode priority is: Cooling mode is prioritized, heating mode is prioritized, first-set mode is prioritized, or last-set mode is prioritized. The indoor unit can be set to any mode (excluding auto mode). The indoor unit will automatically switch to the system mode, when the operation mode of the indoor unit conflicts with the system operation mode. (If the thermostat mode is conflicting with the system mode, it will finally subject to the operation mode of indoor unit, then the mode displayed on the thermostat will be different from that of actual operation mode of indoor unit, while the actual operation mode of indoor unit is the same as that of system mode).

d) When the system mode priority is the voting mode (indoor unit's capacity is prioritized / number of indoor units is prioritized). The indoor unit can be set

to any mode (excluding the auto mode). The indoor unit will be stopped, when the operation mode of the indoor unit conflicts with the system operation mode after voting.

e) System mode priority defaults to master-slave mode, and only certain units have other system mode priorities.

③ When G1, G2 and G3 are all OFF, the defaulted fan speed is auto fan speed (change the fan speed by referring to the parameter setting P02. Refer to 4.4.4 parameter setting for details); When any one interface of G1, G2 and G3 is ON, the fan speed is decided by the signal of G1, G2 and G3. See the table as below:

G	G1	G2	G3	Mode
*	*	*	√	High fan speed
*	*	√	×	Medium fan speed
*	√	×	×	Low fan speed

④ When long-distance monitor or centralized controller has sent the shielding command, indoor unit's status can't be changed by the thermostat, and the nixie tube displays "Ay". If it's the locking status, press the button and "Ay" will flash to display, which indicates the invalid operation.

4.4.2 Temperature Setting

(1) When the unit is operating under cooling mode, the adaptor is fixed to send the set temperature of 16°C to the indoor unit;

(2) When the unit is operating under heating mode, the adaptor is fixed to send the set temperature of 30°C to the indoor unit;

(3) When the unit is operating under fan mode, the adaptor is fixed to send the set temperature of 26°C to the indoor unit.

4.4.3 Fire Alarm and Dry Contact Signal Detection

(1) Fire alarm signal detection: When the fire alarm signal is detected, the fire alarm signal LED will be on and dry contact & 24 volt adaptor will turn off the unit; when the fire alarm signal disappears, the fire alarm signal LED will be off and it will resume the original operation status (set it to keep the off status after the fire alarm signal is disappeared through the parameter setting P04).

(2) Dry contact signal detection: When the signal is detected by the dry contact interface, the corresponding dry contact LED will be on and dry contact & 24 volt adaptor will turn off the unit. The unit can't be turned on; when all dry contact signals are disappeared, the corresponding dry contact signal LED will be off and keep the off status. The unit can be turned on.

NOTE: If the adaptor is completely shielded (locked), dry contact and fire signal will be invalid.

4.4.4 Parameter Setting

Unit parameters can be set under on or off status.

(1) Press "ENTER" button to enter into parameter setting page. The nixie tube displays "P00".

(2) Press “UP” or “DOWN” button can select parameter code. Press “ENTER” button to switch to parameter value setting and the nixie tube flashes to display the parameter value. Press “UP” or “DOWN” button can adjust the parameter value and then press “ENTER” to complete the setting.

(3) Press “BACK” button to return to previous level.

NOTE: after entering the parameter setting state, there will be no operation in 20 seconds, and the parameter setting state will be exited.

Unit parameters setting list is shown as below:

Table 4.5 Unit parameters setting list

Parameter code	Parameter name	Parameter range	Default value	Remark
P01	Device type setting	00: 24 Volt Adaptor 01: Dry Contact Adaptor	00	When set to “00”, as an adapter for the 24V thermostat, it needs to be connected to a third-party thermostat. It also has the function of fire alarm and dry contact signal detection, while it can not be matched with the wired controller for operation. When set to “01”, this device is only used as a dry contact detection board. It is only used to detect fire alarm and dry contact signals, while it can not be connected to a third-party thermostat. In this case, the device can be matched with the wired controller, while this device should be set as slave device. Refer to the setting on P13.

Parameter code	Parameter name	Parameter range	Default value	Remark
P02	Fan speed setting	00: auto 01: low speed 02: medium speed 03: high speed	00	When there's no G1, G2 or G3 signal, the defaulted fan speed for the indoor unit is auto fan speed. It can also be set as low speed, medium speed or high speed.
P03	Delay OFF time setting	00: 5min 01: 10 min 02: 30 min 03: 0 min	00	When the third party thermostat has reached to the temperature point (Y and W signal are all OFF), the adaptor will continue to operate for a period of time for ensuring the operation effect. The delay OFF time can be set through P03 setting.

Parameter code	Parameter name	Parameter range	Default value	Remark
P04	Indoor unit's operation status when the fire alarm signal is disappeared	00: resume to the previous status 01: keep OFF status	00	When set to "00", resume to status before the fire alarm signal (when the previous signal is ON, resume ON status when the fire alarm is disappeared); When set to "01", keep OFF status when the fire alarm signal is disappeared.
P10	Master indoor unit setting	00: no change setting 01: startup	00	When set to "00", don't change current master-slave status; When set to "01", set current indoor unit as the master indoor unit.

Parameter code	Parameter name	Parameter range	Default value	Remark
P13	Device address setting	01: master device 02: slave device	01	When this device matched with the wired controller for operation (one adaptor and one wired controller are connected to the same indoor unit), it needs to set the address of this device to “02” (it also needs to make sure the address of wired controller is “01”); When this device hasn’t matched with the wired controller for operation, it needs to set the address of this device to “01”. Note： This item can be set only when P01 is set to “01” (that’s, the device type is “Dry Contact Adaptor”); when P01 is set to “00”, this device is fixed as the master device.

Parameter code	Parameter name	Parameter range	Default value	Remark
P14	Indoor unit's quantity setting for one-to-more	00: this function is prohibited 01: Quantity of indoor unit	01	Set corresponding value according to quantity of indoor unit.
P16	Temperature unit switchover	00: °C 01: °F	00	—
P30	Static pressure setting for indoor fan	01, 02, 03, 04, 05, 06, 07, 08, 09	05	There are two kinds of static pressure level: 5 levels: 03, 04, 05, 06, 07 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09 Adaptor can be adapted to the different types of indoor units that it possesses 1-9 level selection for setting static pressure. When the indoor unit with 5 static pressure levels received the level setting sent by Adaptor is less than 3, it will be settled as the 3rd level; if it is over 7, it will be settled as the 7th level.

Parameter code	Parameter name	Parameter range	Default value	Remark
P43	Priority operation setting	00: non-priority operation 01: priority operation	00	When the power supply is insufficient, allow the priory indoor unit to turn on or turn off the unit. Other indoor units will be turned off compulsively.
P50	Set the target outlet air temperature of fresh air indoor unit under cooling mode*	Range: 16~30°C (61~86°F)	18°C (64°F)	Only for fresh air processing indoor unit.
P51	Set the target outlet air temperature of fresh air indoor unit under heating mode*	Range: 16~30°C (61~86°F)	22°C (72°F)	Only for fresh air processing indoor unit.

Parameter code	Parameter name	Parameter range	Default value	Remark
P54	Linkage setting for fresh air indoor unit*	00: Non-linkage control 01: Linkage control	00	When the linkage function has been set, the fresh air indoor unit will be turned on or turned off automatically according to the on/off of the common indoor unit. It can also be turned on or turned off independently by hand. Note: Only for fresh air processing indoor unit.
P76	PM2.5 Filter function*	00: invalid 01: valid	00	—

5 Product Installation

5.1 Product Dimension

unit: mm

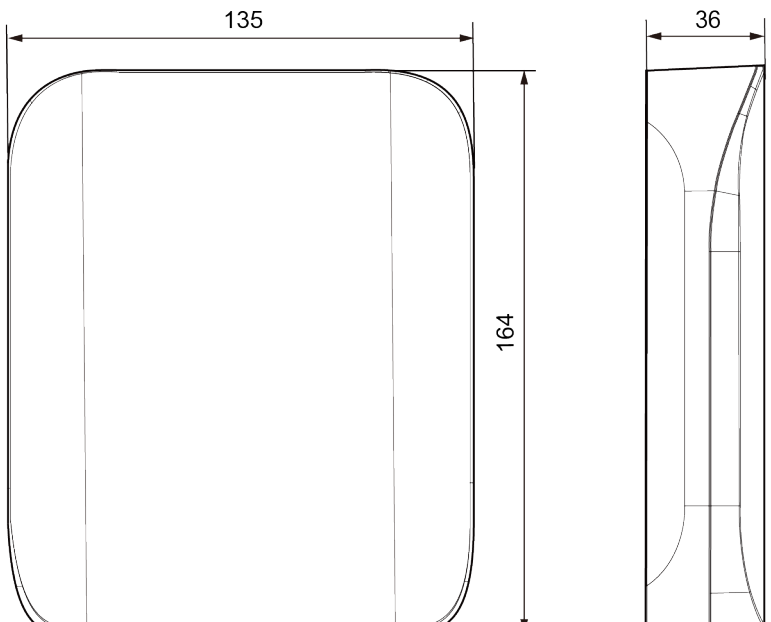


Fig.5.1 Product dimension

5.2 Installation Procedure

(1) Twist off the screws used for fixing the cover, and then open the cover of dry contact & 24 volt adaptor.

(2) Check whether the screws used for fixing the screws of main board is loose. If yes, please tighten the screws until the main board is fixed.

(3) Attach the bottom case of dry contact & 24 volt adaptor at the installation position (such as wall), and then use the screw to fix the bottom case and the installation hole on the wall together.

Connect the wires to the corresponding wiring terminal by passing through the rubber ring, and then tighten the screws on the contact to fix the connection wire.

(4) Press the wires with wire-fixing clamp and then tighten the screws used for fixing the wire-fixing clamp.

(5) Close the gateway cover of dry contact and then tighten the screws used for fixing the cover.

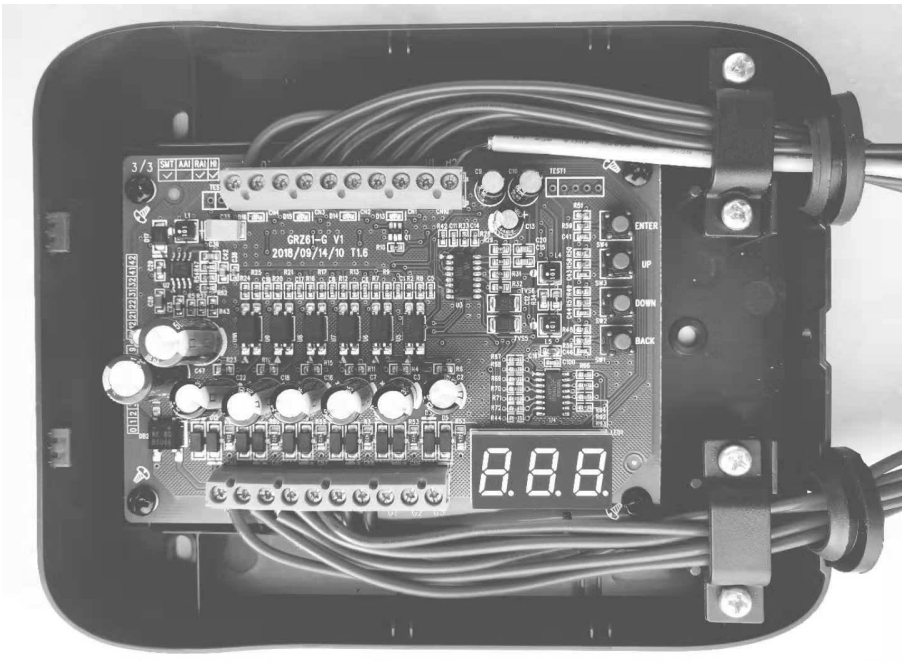


Fig.5.2 Wiring diagram

5.3 Communication Connection

5.3.1 Connection Between Adapter and Indoor Unit

H1 and H2 of HBS communication interface of adapter shall be connected to H1 and H2 of indoor unit for realize the communication between the adapter and the indoor unit.

(1) Communication wire selection

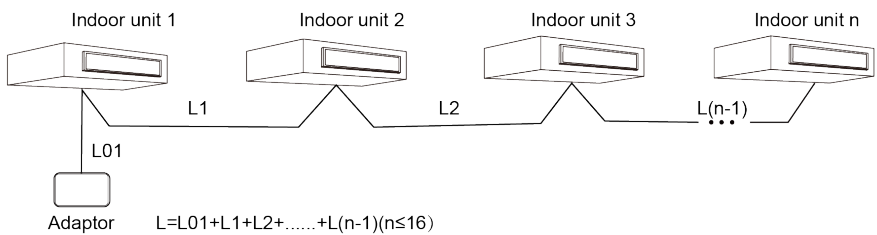


Fig.5.3 Length of communication wire

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≤250m (L≤820-1/5feet)	2×0.75mm^2 ~2×1.25mm^2 (2×AWG18 ~2×AWG16)	IEC 60227-5: 2007	(1) Total length of communication line can't exceed 250m (820-1/5feet). (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.

(2) Communication connection method

When the device type for dry contact & 24 volt adaptor is the dry contact adaptor, the adapter can be matched with the wired controller for operation. There are four

wiring methods with the indoor unit's network which are shown in fig.5.4 to fig.5.7; when the device type is 24 volt adaptor, the adaptor can't be matched with the wired controller for operation. There are only two wiring methods with the indoor unit's network, which are shown in fig.5.8 and fig.5.9.

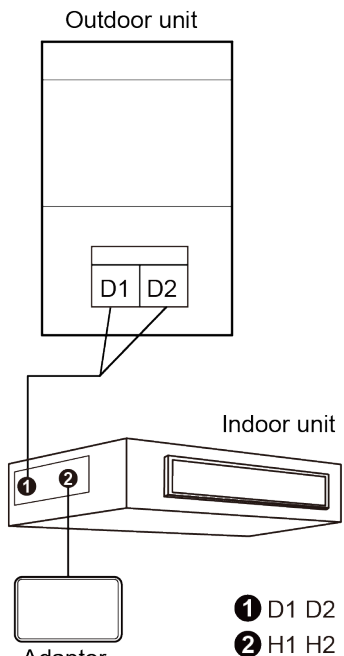


Fig.5.4 One adaptor controls one indoor unit

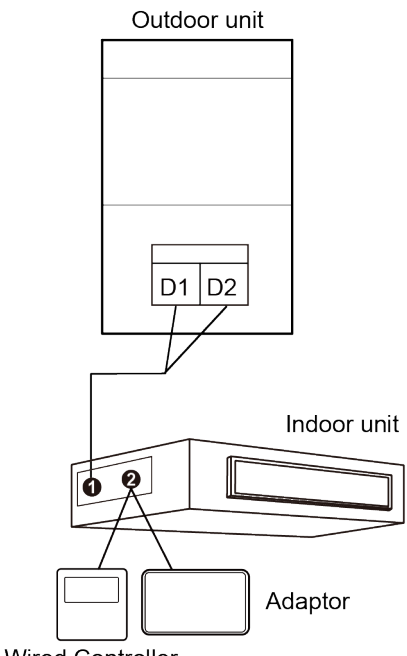


Fig.5.5 One adaptor and one wired controller control one indoor unit

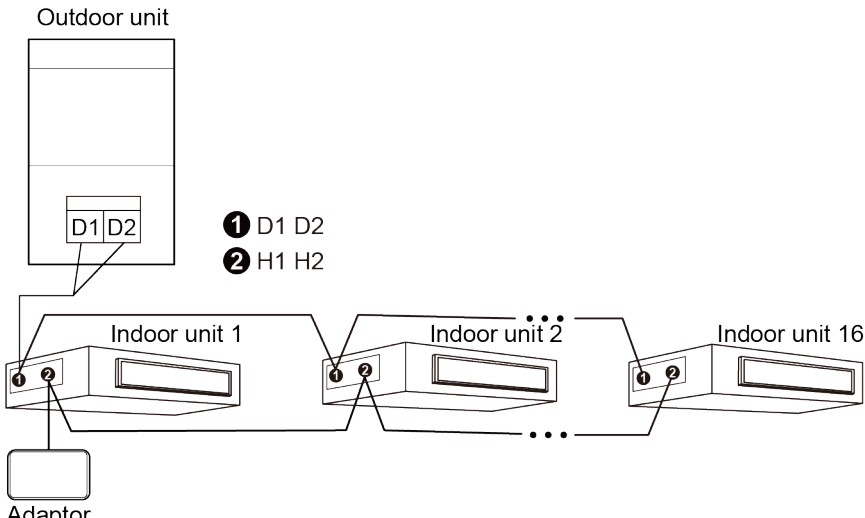


Fig.5.6 One adaptor controls multiple indoor units at the same time

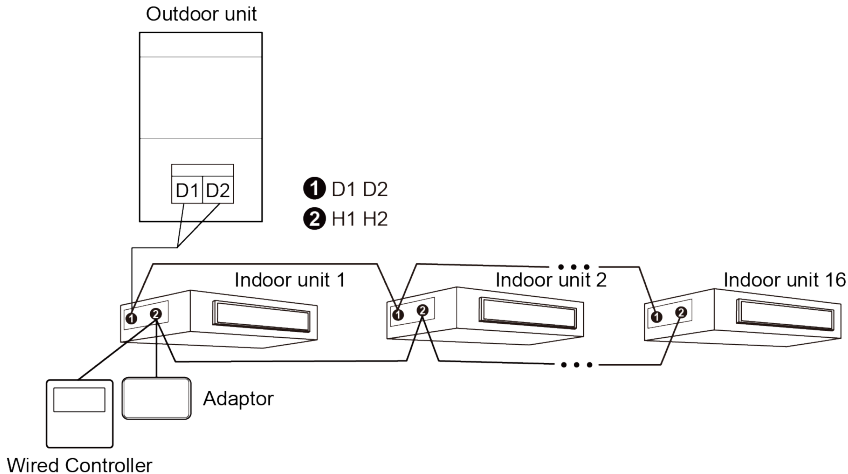


Fig. 5.7 One adaptor and one wired controller controls multiple indoor units

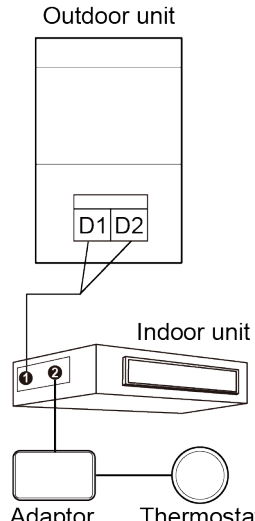


Fig. 5.8 One adaptor controls one indoor unit

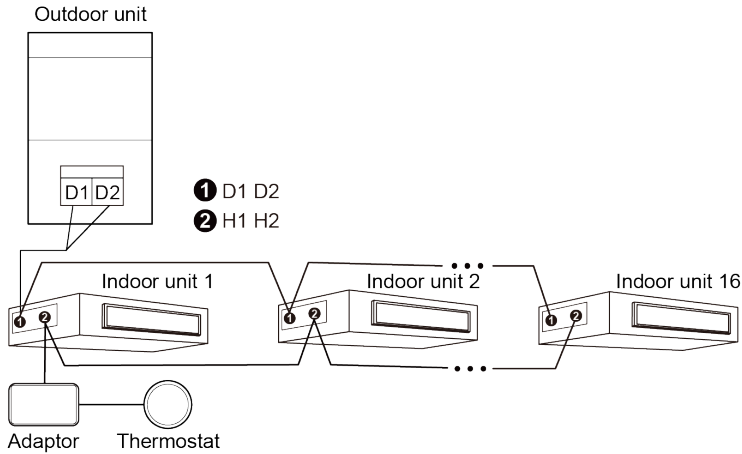


Fig. 5.9 One adaptor controls multiple indoor units at the same time

Wiring instruction:

① When dry contact & 24 volt adaptor control multiple indoor units at the same time, dry contact & 24 volt adaptor can connect the HBS interface (H1, H2) of any one indoor unit. The indoor units which are connected to the dry contact & 24 volt adaptor should belong to the same series. The gateway (or wired controller) can control 16 sets of indoor units at the most and these indoor units should be in the same HBS network.

② When dry contact & 24 volt adaptor and wired controller control one (or multiple) indoor units, dry contact & 24 volt adaptor must be the slave device,

while the wired controller should be master device. Please refer to the 4.4.4 parameter setting on P13 for the setting method of master or slave device.

③ When dry contact & 24 volt adaptor control multiple indoor units at the same time, all indoor units' status shall be the same.

NOTE: HBS communication interface of dry contact & 24 volt adaptor is the non-polar interface. It's no need to consider the polar of HBS interface for wiring.

5.3.2 Connection of Adaptor and Thermostat

The connection between dry contact & 24 volt adaptor and the third party 24VAC HVAC thermostat is shown as below:

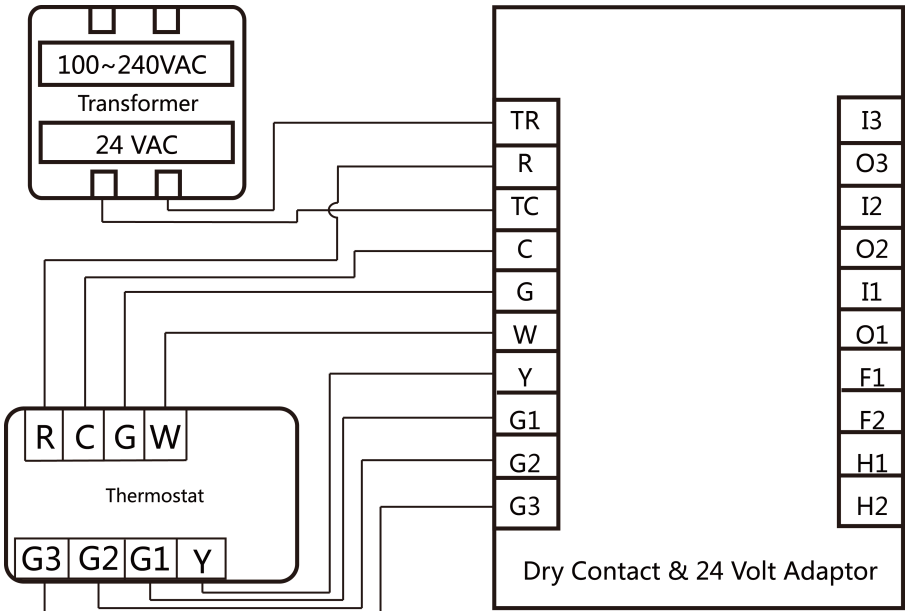


Fig.5.10 Schematic diagram of wiring between adaptor and thermostat

NOTE: If the thermostat hasn't G1, G2 and G3 (low, medium and high fan speeds) interfaces, it's no need to connect wires for these three interfaces of adaptor.

6 Error Display

When there's malfunction during operation, the nixie tube of dry contact & 24 volt adaptor will display the error code. If multiple malfunctions occur at the same time, error codes will be displayed circularly.

NOTE:

When there's malfunction, please turn off the unit and ask for professional person to maintain it.

6.1 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

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
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
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	—	—

6.2 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 CO2 Sensor Error
L2	E-heater Protection	db	Special Code: Field Debugging Code

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
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
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	—	—

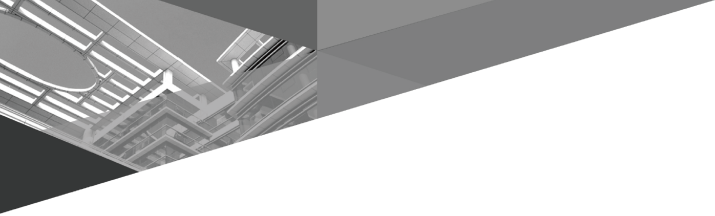
6.3 Table of Debugging Codes

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
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

Error Code	Content	Error Code	Content
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
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	—	—

6.4 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 value b
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
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	—	—



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai,Guangdong, China, 519070
Tel: (+86-756) 8522218
Fax: (+86-756) 8669426
E-mail: global@cn.gree.com www.gree.com

600005061178