# **GROUP CONTROLLER** INSTALLATION AND OPERATION MANUAL

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202055100991

Thank you very much for purchasing our product. Before using your unit, please read this manual carefully and keep it for future reference.

#### 1. SAFETY PRECAUTION

Read the safety precautions care Stated below are important safety Conform there is no abnormal ph hand the manual to the user. Meaning of marks:

WARNING Means imp severe inju er handling may lead to personal death or

# A CAUTION Means improper handling may lead to per property loss.

A WARNING

# Please entrust the distributor or professionals to install the unit. Installation by other persons may lead to imperfect installation, electric shock or fire.

Strictly follow this manual. Imporper installation may lead to electric shock or fire.

n must be performed by professionals allation may lead to electric shock or fire. Do not disassemble your air conditioner at will. A random disassembly may cause abnormal operation or he

# ating, which may result in fire

A CAUTION Do not install the unit in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the group controller, fire may or

### The wiring should adapt to the group controller current. Otherwise, electric leakage or heating may occur and result in fire.

The specified cables shall be applied in the wiring. No external force may be a to the terminal. Otherwise, wire cut and heating may occur and result in fire.

### 2. OTHER PRECAUTIONS

Installation Location Do not install the unit in a place with

	Name	Qty.	Remarks
1	Group Controller	1	
2	Cross recess head self-tapping screw	4	ST3.9×25(For Mounting the cover and base)
3	Cross recess round head wood screw	4	M4×20(For Mounting on the wall)
4	Plastic expanded tube	4	(For Mounting on the wall)
5	Group controller Installation and operation manul	1	
6	Matching resistance	2	

ND.	Name	Qty	Specification ( Only for reference )	Remark
1	Power line	1	AC220V 2*1.5mm <sup>2</sup>	Input power AC220V
2	Electrical appliance used for group controller	1	Sepcification AC220V	Max.current <3.15A
3	Wiring conduit	1	Insulated sleeve	Pre-embed into wall
4	Shielded 3-core PE cable	2	RVVP Series	One for network connector module communication the other for compute communication
5	Big cross Screwdriver	1		Use for installing cross recess head screw
6	Small slotted screw	1		Use for installing the signal wire

26 the RS485 communication wire with the strong electric circuit, and also the same wiring conduct: the distance between the communication wiring and the strong

Induct the distance between the and cuit should be over 300~500mm. Vie of the Group controller reliably. -- leanthening connection among the connecting wire of

# 3. INSTALLATION METHOD NOTE When selecting the Tryping Board, please due the first but of SVIT to CVF. When selecting the Unitary Roard, Passed and Ite Ins tot at CVF to CVF. In the group, mill cold air switches of all the indoor units have to be the same with the group controller is only allowed to connect most of 16 indoor units. Crea Corago controller is only allowed to connect most of 16 indoor units. The the VLE point of coldoor unit.







### 4. SYSTEM WIRING SPECIFICATION





#### 5.GROUP CONTROLLER SYSTEM WIRING DIAGRAM - DVMAX DIGITAL SYSTEM



## 6. OPERATION METHOD

-I main para GW-GRP16 98V ~ 242V IC, EMI me up controller function s

Main functions as following: 1. Connect the indoor unit through X1 Y1 E 2. Group controller could control a group of 3. With the check switch of display board. G running state of every unit in the group. 4. LED indication function. igh X1 Y1 E th

3 Group controller operation indication When connected to Group controller as a group, the indoor units could be controlled simultaneously by the remator over ice controller. But also, the indoor units could be controlled separately by ther standard controller.

#### 6.4 Group controller fault indication

when one or more indoor units in the group have errors, the group or will alarm the error and other normal indoor units will not be affected.



#### A WARNING

Communication singal in CN6(X1 Y1 E) is Low voltage signal. Do not apply high voltage, or breakdown will occur and even cause fire

#### 7. FAILURE DISPLAY

Error	Nixie tube display	
Communication error between indoor unit and outdoor unit	E1	
Indoor temp. sensor error	E2	
Indoor evaporator outlet temp. sensor error	E4	
Indoor evaporator middle part temp. sensor error	E3	
CO2 alarm (Reserved)	E5	
Outdoor unit error	Ed	
Water level alarm error	EE	
EEPROM error (Reserved)	E7	
Mode conflict	E0	
Communication error between Grouped	EH	

#### nout nixie tube > failure

Error	LED display
Communication error between indoor unit and outdoor unit	Timer lamp flashes 5HZ
Indoor temp. sensor error	Running lamp flashes 5HZ
Indoor evaporator outlet temp. sensor error	Running lamp flashes 5HZ
Indoor evaporator middle part temp. sensor error	Running lamp flashes 5HZ
CO2 alarm (Reserved)	Alarm lamp flashes slowly 1HZ
Outdoor unit error	Alarm lamp flashes slowly 1HZ
Water level alarm error	Alarm lamp flashes slowly 5HZ
EEPROM error (Reserved)	Defrosting lamp flashes fast 5HZ
Mode conflict	Defrosting lamp flashes slowly 1HZ
Communication error between Grouped controller and indoor unit	Alarm lamp flashes

Check contents Under normal conditions, display panel will display running status of the first indoor unit bein inquired by the grouped controller, long press check button for more than 3 to avail, and will panel will display the current indoor unit address, at this time, long press check button for a gain, the display band will display the next indoor unit address, at the sing.

#### 8. NEW DISPLAY BOARD CHECK CONTENTS

Times	Contents
0	2.1 Display contents according to 2.1
1	Communication address between indoor and outdoor unit
2	Indoor unit capacity dial code
3	Qty. of Online indoor units
4	Indoor unit network address
5	Temp. set
6	Indoor unit temp.
7	Indoor unit temp.
8	Indoor evaporator middle part temp.
9	Indoor evaporator outlet temp.
10	Last error (no error display E-)
11	-

#### 9. OLD DISPLAY BOARD CHECK CONTENTS

Table 9.1	old display parter credit contents
Times	Contents
0	2.2 Display contents according to 2.1
1	Communication address between indoor and outdoor unit
2	Qty. of Online indoor unit
3	Capacity of indoor unit

	Communication address between indoor unit and outdoor unit	LED lamp status
No response of buzzer	0015	Constantly lights
No response of buzzer	16—31	flashes
buzzer responds	32-47	Constantly lights
buzzer responds	48-63	flashes