

## 1 Safety Considerations



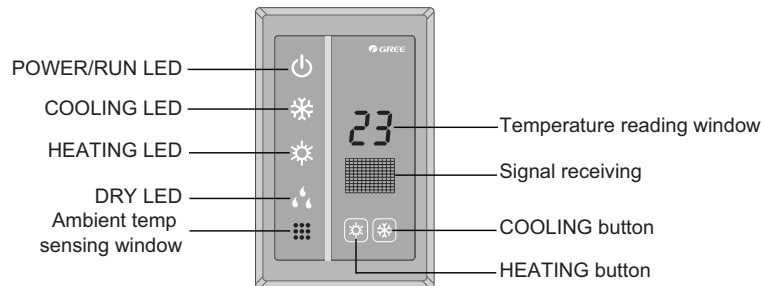
It indicates improper operation, if not avoided, would lead to casualty or severe damage to the unit.

### ⚠ WARNING!

- 1) Installation and maintenance shall be performed by the designated personnel. Before installation, please read this manual carefully.
- 2) Never switch on the power supply prior to installation.
- 3) Installation shall be performed strictly following the instructions covered in this manual to guarantee the normal operation of this receiver
- 4) Do not install the receiver under direct sunlight or close to heat source so as to avoid safety incidents
- 5) Electric wiring shall comply with local and national safety standards.
- 6) Keep this manual properly for future reference during maintenance and refitment etc.

## 2 Outside Drawing and Features

### 2.1 Outside Drawing



### 2.2 Features

(1) JS05 has five indicating LEDs listed below.

Operation mode \ LEDs	POWER (red)	RUN (green)	COOLING (white)	HEATING (white)	DRY (white)
COOLING	OFF	ON	ON	OFF	OFF
HEATING	OFF	ON	OFF	ON	OFF
DRY	OFF	ON	OFF	OFF	ON
FAN	OFF	ON	OFF	OFF	OFF
OFF	ON	OFF	OFF	OFF	OFF

(2) Under normal operation, the preset temperature will be displayed, otherwise the error codes or codes for commissioning will be shown.

(3) Under normal operation, when the Light function is deactivated through the wireless or the wired

controller, all indicating LEDs and the display of the receiver will light off but occasionally the display will light on in three seconds when receiving the control signal from the wireless controller and later light off again.

(4) When the wireless controller gets lost, emergency startup is enabled by pressing the “COOLING” or the “HEATING” buttons.

**COOLING:** when the unit is OFF, briefly press the “COOLING” button and then the unit will perform cooling at the AUTO fan speed. The default temperature setting is 26°C. Then, the unit can be turned off by pressing this button again.

**HEATING:** when the unit is OFF, briefly press the “HEATING” button and then the unit will perform heating at the AUTO fan speed. The default temperature setting is 20°C. Then, the unit can be turned off by pressing this button again.

**Note:** this temperature will be displayed either in Fahrenheit or Celsius. The light function is defaulted to be activated.

## 3 Installation Instructions

### 3.1 Outline Dimensions

See the figure below for outline dimensions and see the real object for details. (unit: mm)

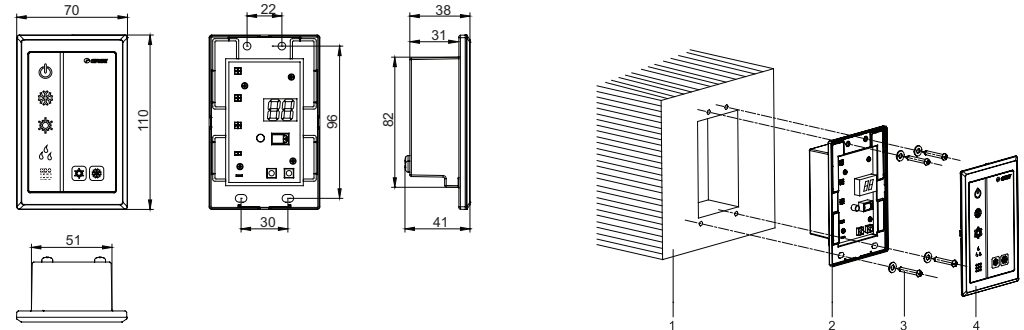


Fig.1 Outline Drawing

Fig.2 Installation Drawing

No.	1	2	3	4
Description	Wall or ceiling	Receiver with the front panel removed	Screws and washers	Front panel

### 3.2 Installation Steps

- a. Decide where to install the receiver after the indoor unit has been placed. A recess and a slot shall be prepared for the installation of the receiver and the connection line.
- b. Drill the mounting holes on the wall and then fill them with foam plastic.
- c. Unsnap the front panel through the bottom opening with a flat screwdriver.
- d. Embed the connection line and fix it with screws. Then, put the front panel back as before.

### 3.3 Connection of the Main Board and the Receiver

The connection line between the main board and the receiver shall be linked securely. See the table below for the type of the connection line as well as the matched interface on the main board.

Connection line type	Matched interface in the main board
17-wire type	Dsp1(8-wire) ; Dsp2(9-wire)

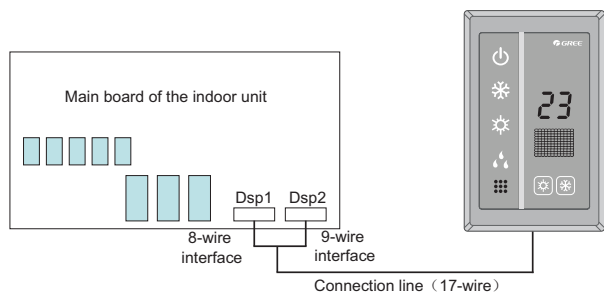


Fig. 3 Connection Diagram

## 4 Errors

When some error occurs, the error codes will be displayed as listed in the table below.

### 4.1 Errors of Outdoor Units

Code	Description	Code	Description	Code	Description
E0	Outdoor unit error	FH	Sensing circuit error of compressor 1	b1	Outdoor ambient temperature sensor error
E1	High pressure protection	FC	Sensing circuit error of compressor 2	b2	Defrost temperature sensor 1 error
E2	Low discharge temperature protection	FL	Sensing circuit error of compressor 3	b3	Defrost temperature sensor 2 error
E3	Low pressure protection	FE	Sensing circuit error of compressor 4	b4	Leaving liquid temperature sensor error of the sub-cooler
E4	High discharge temperature protection	FF	Sensing circuit error of compressor 5	b5	Leaving air temperature sensor error of the sub-cooler
EC	Discharge temperature sensor come-off protection of compressor 1	FJ	Sensing circuit error of compressor 6	b6	Suction temperature sensor 1 error
EL	Discharge temperature sensor come-off protection of compressor 2	FU	Shell top temperature sensor error of compressor 1	b7	Suction temperature sensor 2 error
EE	Discharge temperature sensor come-off protection of compressor 3	Fb	Shell top temperature sensor error of compressor 2	b8	Outdoor ambient temperature sensor error
EF	Discharge temperature sensor come-off protection of compressor 4	J1	Compressor 1 over-current protection	b9	Heat exchanger leaving vapor temperature sensor error
EJ	Discharge temperature sensor come-off protection of compressor 5	J2	Compressor 2 over-current protection	bA	Return oil temperature sensor error
EP	Discharge temperature sensor come-off protection of compressor 6	J3	Compressor 3 over-current protection	bC	Shell top temperature sensor come-off protection of compressor 1
F0	Outdoor unit main board error	J4	Compressor 4 over-current protection	bL	Shell top temperature sensor come-off protection of compressor 2
F1	High pressure sensor error	J5	Compressor 5 over-current protection	P0	Defective compressor drive board
F3	Low pressure sensor error	J6	Compressor 6 over-current protection	P1	Compressor drive board malfunction
F5	Discharge temperature sensor error of compressor 1	J7	4-way valve blow-by protection	P2	Voltage protection of the compressor drive board
F6	Discharge temperature sensor error of compressor 2	J8	High system pressure ratio protection	P3	Compressor drive module resetting protection
F7	Discharge temperature sensor error of compressor 3	J9	Low system pressure ratio protection	H0	Defective fan drive board

F8	Discharge temperature sensor error of compressor 4	JA	Freeze protection	H1	Fan drive board malfunction
F9	Discharge temperature sensor error of compressor 5	JC	Water flow switch protection	H2	Voltage protection of the fan drive board
FA	Discharge temperature sensor error of compressor 6	JL	Low pressure protection at the high side		

### 4.2 Errors of Indoor Units

Code	Description	Code	Description	Code	Description
L0	Indoor unit error	L8	Power failure	d7	Humidity sensor error
L1	Indoor fan protection	LH	Stuffy indoor air quality alarm	d8	Water temperature sensor error
L2	Auxiliary electric heater protection	LC	Unmatched indoor and outdoor units	d9	Jumper error
L3	Full water protection	d1	Indoor unit main board error	dA	Indoor unit IP address error
L4	Supply over-current protection	d3	Ambient temperature sensor error	dC	Capacity DIP switch setting error
L5	Freeze protection	d4	Inlet pipe temperature sensor error	dL	Discharge temperature sensor error
L6	Operation mode conflict	d5	Mid-pipe temperature sensor error	dE	Indoor CO <sub>2</sub> sensor error
L7	No master indoor unit	d6	Outlet pipe temperature sensor error	db	Commissioning code

### 4.3 Errors for Commissioning

Code	Description	Code	Description	Code	Description
U2	Outdoor unit capacity DIP switch/jumper setting error	UL	Outdoor unit capacity DIP switch/jumper setting error	CH	High rated capacity ratio
U3	Power phase protection	UE	Invalid refrigerant charge	CL	Low rated capacity ratio
U4	Refrigerant loss protection	C0	Communication error between indoor and outdoor units	CF	Multiple master units
U5	Improper compressor drive board address	C2	Communication error between the main control and the compressor VRD	CJ	System address DIP switch setting conflict
U6	Outdoor unit capacity DIP switch/jumper setting error	C3	Communication error between the main control and the fan VRD	CU	Communication error between the indoor unit and the receiver.
U8	Power phase protection	C4	Indoor unit inexistence error	Cb	Out-the-range IP address
U9	Refrigerant loss protection	C5	Indoor unit project number conflict		
UC	Master indoor unit being ready	C6	Outdoor unit quantity unconformity		

### 4.4 Errors of System Status

Code	Description	Code	Description
A0	Ready for commissioning	A8	Vacuuming mode
A1	Compressor operational parameter viewing	AJ	Filter cleaning reminder
A2	After-sales refrigerant recovery	AU	Remote emergency stop
A3	Defrost	Ab	Emergency stop
A5	On-line test	Ad	Restricted operation

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