



AIR CONDITIONING SYSTEMS

- USER'S MANUAL



MODELS:
V4MDI-100/ U4MRT-100



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

WIRED REMOTE CONTROLLER INSTALLATION MANUAL

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

SAFETY PRECAUTION

- Read the safety precautions carefully before installing the unit.
- Stand before any important safety issues that must be observed.
- Confirm there is no abnormal phenomena during test operation after complete, then hand the manual to the user.
- Mounting of marks:

- WARNING** Means improper handling may lead to personal death or severe injury.
- CAUTION** Means improper handling may lead to personal injury or property loss.

WARNING

Please entrust the distributor or professionals to install the unit.
Improper installation may lead to imperfect installation, electric shock or fire.

Strictly follow this manual.

Improper installation may lead to electric shock or fire.

Reinstallation must be performed by professionals.

Improper installation may lead to electric shock or fire.

Do not disassemble your air conditioner at will.

A random disassembly may cause abnormal operation or heating, which may result in fire.

CAUTION

Once flammable gases are leaked and left around the wire controller, fire may occur.

The wiring should adapt to the wire 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 applied to the terminal.

Otherwise, wire cut and heating may occur and result in fire.

Do not place the wired remote controller near the lamp, to avoid the remote signal of the controller to be disturbed. (refer to the right figure)



OTHER PRECAUTIONS

Installation Location

Do not install the unit in a place with much oil, steam, sulfide gas. Otherwise, the product may deform and fail.

Preparation before installation

1. Check whether the following assemblies are complete.

Item	Name	Qty	Remarks
1	Wire controller	1	
2	Cross (round) head wood mounting screw	3	GB950-B6 M4X20 (For Mounting on the Wall)
3	Cross (round) head mounting screw	7	M4X25 GB923-B6 (For Mounting on the Electrical Switch Box)
4	Insulation Manual	1	
5	Owner's Manual	1	
6	Plastic expansion pipe	3	For Mounting on the Wall
7	Plastic screw bar	2	For fixing on the electronic box
8	Shielding wires for signal receiving board	1	For connecting the signal receiving board and 4-core shielding wire
9	Shielding wires for wire controller signal	1	(If needed) For connecting the main control panel and 4-core shielding wire

2. Prepare the following assemblies on the site:

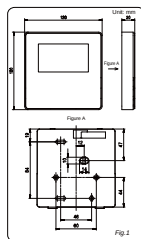
Item	Name	Qty/prepared Unit/each	Specification (only for reference)	Remarks
1	4-core shielded cable	1	RVVFP-0.5mm ² ×4	The longest is 15m
2	SS Electrician box	2		
3	Wiring Tube/insulating Sleeve and Tightening screws			

Note to installation of wire controller:

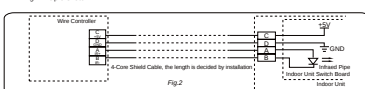
- This installation manual contains information about the procedure of installing Wired Remote Controller. Please refer to Indoor Unit Installation Manual for connecting between Wired Remote Controller and Indoor Unit.
- Circuit of Wired Remote Controller is low voltage circuit. Never connect it with a standard 220V/50Hz circuit or put it into a same Wiring Tube with the circuit.
- The shield cable must be connected to the ground or insulation may fail.
- Do not attempt to extend the shield cable by cutting. If it is necessary, use Terminal Connection Block to connect.
- After finishing connection, do not use Megger to have the insulation check to the signal wire.

INSTALLATION PROCEDURE

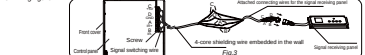
1. Wired remote controller structure size figure



2. Wiring Principle Sketch:



3. Wiring figure



CAUTION

- Connect two terminals of shielded-core wiring, connect the shielding wire of shielded-core and signal receiving board. Make sure the system of 4 terminals (M4X25) should correspond to the wire expansion of signal receiving wire (M4X25) (Refer to Fig. 2).
- If the shielded-core shielding wire can cut up through the wired remote controller. It can use signal amplifying for connection (Refer to Fig. 4). Make sure the wires are reliable and firm.
- The tightening torque range of screw is 0.0-1.2N·m (0-12 kgf·cm).

INSTALLATION PROCEDURE

4. Back cover installation

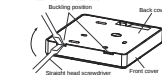


Fig.5



Fig.6

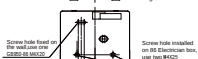


Fig.7

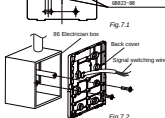


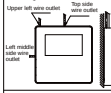
Fig.7.2



CAUTION

1. Use straight head screwdriver to insert into the backing position in the bottom of wire controller, and spin the screwdriver to take down the back cover. (Pay attention to spinning direction, otherwise will damage the back cover) (Fig.5)
2. Use three G802-G803 MAX20 screws to directly install the back cover on the wall (Fig.6)
3. Use two MAX20 G802 G803 screws to install the back cover on the RS-Electronic box, and use one G802-G803 MAX20 screw for fixing on the wall (Fig.7.1)
4. Adjust the length of two plastic screws to fit the distance to be specified length from the electrical box screw hole to the wall. Make sure when install the screws to fit the electrical box screw hole (Fig.7.2)
5. Use extra head screw to fix the wire controller bottom cover in the electric control box through the screw hole. Make sure the wire controller bottom cover is on the same level after installation, and then install the wire controller back to the bottom cover.
6. Over tighten the screw will lead to deformation of back cover

5. Wiring



A. Wiring, three-outlet positions

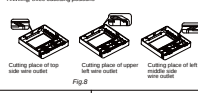
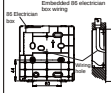


Fig.8

B. Shielded wiring



Wiring through the wall

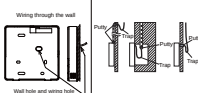


Fig.9

Fig.10



CAUTION

Avoid the water enter into the wired remote controller, use tape and putty to seal the connectors of wires during setting installation. (Fig.2.7)

When under installation, measure careful length of the connecting wire for convenient to take down the wired remote controller after during maintenance.

6. Front cover installation

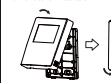


Fig.11

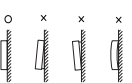


Fig.12



CAUTION

After adjusting the front cover and then buckle the front cover, avoid changing the communication switching wire during installation. (Fig.11)

Correct install the back cover and firmly buckle the front cover and back cover, otherwise will make the front cover drop off. (Fig.12)

WIRED REMOTE CONTROLLER INITIAL PARAMETER SETTING

Wired remote controller initial parameters setting:

1. Change the related functions of the controller through adjusting the initial parameters, details refer to table 1.
2. The wired remote controller initial parameter include two codes "XY", the first code "X" means function class, the second code "Y" means detailed configuration of this function.
3. Setting method:
 - ① Simultaneously long press "Mode" and "Fan" button of the wired remote controller for 5 seconds to enter the parameter setting state;
 - ② The value of the first code "X" is "1", press the temperature setting button **A3** and **P2** to adjust the second code value;
 - ③ After setting the second code value, press **OK** button to switch the first code to the next value;
 - ④ When the first code value is "3", press **OK** button again to exit the parameters setting.
4. The parameters setting function only under the situation which need to adjust the default functions' setting states, otherwise there is no need to do the setting.

Table 1

First code	Function	Second code				
		0	1	2	3	4
0	Cool-only/ Cool-Heat selection	Cool-only (Default)	Cool-only	/	/	/
1	Indoor unit communication address setting	Yes (Default)	None	/	/	/
2	Power off memory	Yes (Default)	None	/	/	/
3	Filter cleaning reminding	Cancel the reminding function	1250 hours	2000 hours (Default)	5000 hours	10000 hours
5	Remote receiving function	Yes (Default)	None	/	/	/
6	Centigrade/ Fahrenheit display	Centigrade (Default)	Fahrenheit	/	/	/



Note:
• For cooling only operations, please do corresponding settings as described

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- Fill all the fields as shown below

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Full Name*	Unit Type*
Address*	Serial Number of the indoor unit*
Postal Code*	Serial Number of the outdoor unit*
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AIR CONDITIONING SYSTEMS

DUCT TYPE



16117100A17554 V1.0



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