



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.
- States below are 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 mats:

- ▲ **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.

- ▲ **CAUTION**
Rigorously 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.

- ▲ **CAUTION**
Do not disassemble your air conditioner at will.
A random disassembly may cause abnormal operation or heating, which may result in fire.

- ▲ **CAUTION**
Do not install the unit in a place vulnerable to leakage of flammable gases.
Once flammable gases are leaked and left around the wire controller, fire may occur.

- ▲ **CAUTION**
The wiring should adapt to the wire controller current.
Otherwise, electric shock or heating may occur and result in fire.
The specified cables shall be applied to the wiring. No external force may be applied to the terminals.
Otherwise, wire cut and heating may occur and result in fire.

- ▲ **CAUTION**
Do not place the wired remote controller near the lamps, 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.

No.	Name	Qty	Remarks
1.	Wire controller	1	
2.	Cross round head wood mounting screw	1	GR50-38 (MAX2) (For Mounting on the Wall)
3.	Cross round head mounting screw	2	MAX25 (MAX2-58) (For Mounting on the Electrical Switch Box)
4.	Insulation Manual	1	
5.	Owner's Manual	1	
6.	Plastic separation pipe	3	For Mounting on the Wall
7.	Plastic cover bar	2	For fixing on the decoration box
8.	Shielding wires for signal	1	For connecting the signal shielding 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

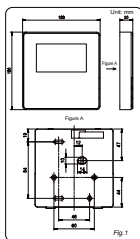
2. Prepare the following assemblies on the site.

No.	Name	Qty (minimum)	Specification (only for reference)	Remarks
1.	4-core shielded cable	1	RVVFP-0.5mm ² *4	The longest is 15m
2.	4-core shielded cable	1		
3.	Wire Tensioning (Screwing and Tightening device)	1		

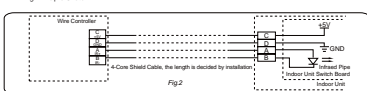
- Note to installation of wire controller:**
- This installation manual contains information about the procedure of installing Wired Remote Controller. Please refer to Indoor Unit Installation Manual for connecting between Wired Remote Controller and Indoor Unit.
 - Control of Wired Remote Controller 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 stable to the ground or insulation may fail.
 - Do not attempt to extend the shield cable by cutting, if it is necessary, use Special Connection Block to connect.
 - After finishing connection, do not use Megger to have the insulation check to the signal wire.

(INSTALLATION PROCEDURE)

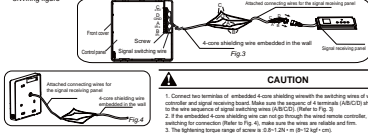
1. Wired remote controller structure size figure



2. Wiring Principle Sketch:



3. Wiring figure



CAUTION

- ▲ Confirmed the direction of unidirectional cross connecting, install the shielding wires of shield wires, control wire and signal receiving board. Make sure the sequence of 4 terminals (A/B/C/D) should correspond to the wire sequence of signal receiving board (A/B/C/D) (Refer to Fig. 2).
- ▲ If the embedded 4-core shielding wire can not go through the wire remote controller, it can use signal shielded for connection (Refer to Fig. 4), make sure the wires are reliable and firm.
- ▲ The lightning longest length of screw is 0.8-1.20m (φ=12-16mm).

INSTALLATION PROCEDURE

4. Back cover installation

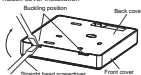


Fig. 5



Fig. 6

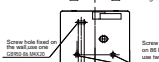


Fig. 7.1

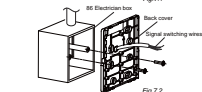


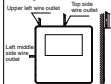
Fig. 7.2



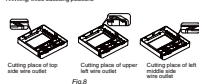
CAUTION

1. Use straight head screwdriver to insert into the building position in the bottom of wire controller, and spin the screwdriver to take down the back cover. (Pay attention to opening direction, otherwise will damage the back cover) (Fig. 5).
2. Use three GSD03-06/08/02 screws to directly install the back cover on the wall (Fig. 6).
3. Use two M2.5/GSD03-08 screws to install the back cover on the electric box, and use one GSD03-08/M2.5 screw for fixing on the wall (Fig. 7.1).
4. Adjust the length of the screw (screw size) to the necessary to be shorter length from the electrical box screw top to the wall. Make sure when install the screw top to fit the electrical box screw, not to be too deep in the wall. (Fig. 7.2)
5. Use cross 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. Cover tighten the screw will lead to deformation of back cover.

5. Wiring



A. Wiring, three-outletting positions



B. Stripped wiring

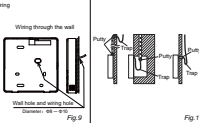
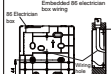


Fig. 10



CAUTION

Avoid the water enter into the wired remote controller, use trap and gully to lead the connectors of wires during wiring installation. (Fig. 10)

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

6. Front cover installation



Fig. 11

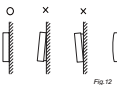


Fig. 12



CAUTION

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

Connect correct the back cover and firmly buckle the front cover and back cover, otherwise will make the front cover slip 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 default configuration of this function.
 - 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 "0", press the temperature setting button **[▲]** and **[▼]** 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 "0", press **[OK]** button again to set the parameters setting.
3. Setting method:
 - ① The parameters setting function only under the situation which need to adjust the default function's setting state, 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-Heat (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	1200 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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<https://www.inventorairconditioner.com/warranty-inventor>



- Fill all the fields as shown below

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Owner details	Unit details
Full Name* <input type="text"/>	Unit Type* <input type="text"/>
Address* <input type="text"/>	Serial Number of the indoor unit* <input type="text"/>
Postal Code* <input type="text"/>	Serial Number of the outdoor unit* <input type="text"/>
Phone Number* <input type="text"/>	Date of Purchase* <input type="text"/>
E-mail* <input type="text"/>	Invoice Number* <input type="text"/>
Subscribe to Inventor's Newsletter <input type="checkbox"/>	Additional Details <input type="text"/>

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AIR CONDITIONING SYSTEMS

DUCT TYPE



16117100A17554 V1.0



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