Midea

OPERATION AND INSTALLATION MANUAL

RM12F1 Remote Controller

Thank you for purchasing the remote controller.
This manual describes the safety precaution requirement of using this product.

Midea

Thank you for purchasing this remote controller. Carefully read this OPERATION AND INSTALLATION MANUAL before using the controller. It will tell you how to use the controller properly and help you if any trouble occurs. After reading the manual, please keep it for future reference.

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Installation

1. Installation Precautions

Safety Considerations

Please read this "Safety Considerations" carefully before installing Controller and be sure to install it correctly. After completing the installation, make sure the controller operates properly.

Please instruct the customer how to operate the controller and how to perform maintenance.

Meaning of Caution Symbols

⚠	Failure to observe these instructions properly may result in property damage or personal injury.

Information classified as **NOTE** contains instructions to ensure proper use of the controller.

⚠	• Ensure that nothing interrupts operation of the wireless remote controller. • Ensure that the signal from the remote controller can easily be transmitted. • Ensure that the operation display lamp and other indicator lamps can easily be seen. • Ensure that there is neither a source of light nor a fluorescent lamp near the receiver. • Ensure that the receiver is not exposed to direct sunlight.

Installation

WARNING

Precautions in handling remote controller

• Direct the transmitting part of the remote controller to the receiving part of the air conditioner.

• If something blocks the transmitting and receiving path of the indoor unit and the remote controller as curtains, it will not operate.



• Transmitting distance is approximately 7 m.

• 1 short beeps from the receiver indicates that the transmission is properly done.

• Do not drop or get it wet.It may get damaged.

• Never press the button of the remote controller with a hard, pointed object. The remote controller may get damaged.

Installation site

• It is possible that signals will not be received in rooms that have electronic fluorescent lighting. Please consult with the salesman before buying new fluorescent lights.

• If the remote controller operated some other electrical apparatus, move that machine away or consult your dealer.

Installation

2. Installation Accessories

• Please check that you have all the following parts.

No.	Name	Schematic	Qty
①	Remote controller bracket		1
②	Screw lid		1
③	Philips head screw (M2.9 * 12)		2
④	AAA battery		2
⑤	Remote controller manual		1

3. Dimensions of Remote Controller and Bracket

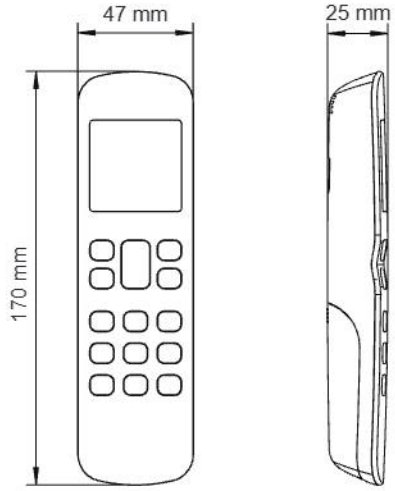


Figure 2.1 Dimensions of remote controller

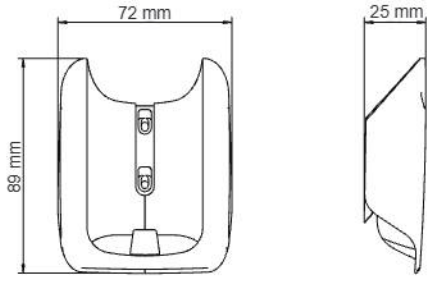


Figure 2.2 Dimensions of remote controller bracket

4. Installation and Fixing

1) Use the screws (accessories) to fix and secure the remote controller bracket in a stable position (see Figure 2.3);
Make sure you refer to "1. Installation Precautions" to determine the location.

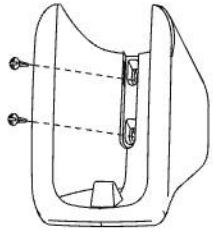


Figure 2.3

2) Slot the screw lid into the bracket cover on top of the screws (see Figure 2.4);

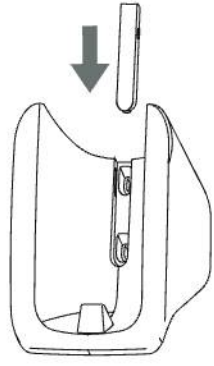


Figure 2.4

3) Slide the remote controller vertically down into the remote controller bracket (see Figure 2.5).

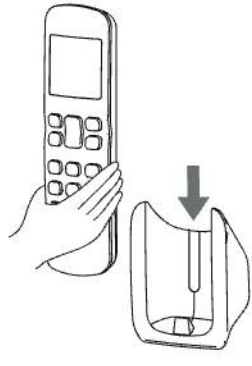


Figure 2.5

5. Replace the Batteries

1) Slide to move the battery cover at the back of the remote controller in the direction indicated by the arrow (Figure 2.6);

Installation

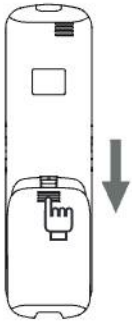


Figure 2.6

2) Lift up from the lower left end of the battery cover to open it (see Figure 2.7);

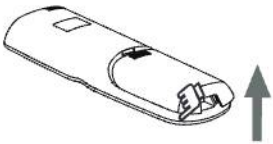


Figure 2.7

3) Take out the old batteries. Install two new AAA batteries according to the positive and negative polarities indicated (see Figure 2.8). Close the battery cover.

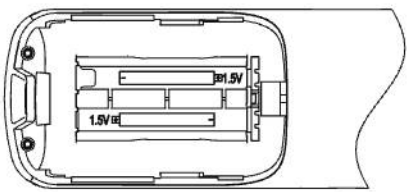


Figure 2.8

Operating the Remote Controller

1. Using Precautions

To gain full advantage of the controller's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use.
The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

WARNING
Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION
Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

Information classified as **NOTE** contains instructions to ensure proper use of the controller.
After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the controller is transferred to a new user, be sure also to hand over the manual.

WARNING

Note that prolonged, direct exposure to cool or warm air from the air conditioner or to air that is too cold or warm can be harmful to your physical body and health.
• Do not use pesticides, disinfectants and flammable sprays to spray directly on the remote controller as these may cause the device to become deformed.
• If there is a fault with the remote controller, turn off the remote controller and contact your local agent.
• Remove the dry batteries before cleaning or maintenance of the remote controller. Do not wash the controller with water.

Operating the Remote Controller

CAUTION

• Do not operate the device with wet hands to prevent water from entering the remote controller and damage the circuit board.
• Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner to cool precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality, and/or lifespan of the object concerned.
• Ventilate the area from time to time. Be careful when you use the air conditioner with other heating equipment. Insufficient ventilation may result in oxygen deficiency.

2. Model and Key Parameters

Product Model	RM12F1
Rated Voltage	3.0 V (AAA battery x 2)
Ambient Temperature	-5 to 43 °C
Ambient Humidity	RH ≤ 90 %

3. Button Names and Functions

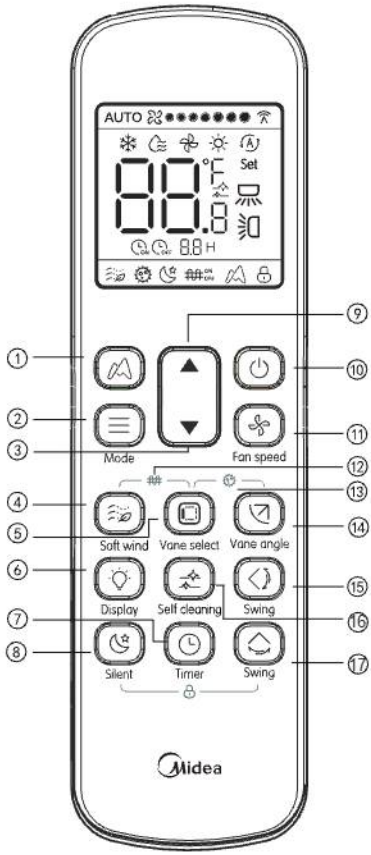


Figure 3.1 External view of remote controller

Operating the Remote Controller

No.	Button	Function
①	 Midea ETA function	Turn on/off the Midea ETA function
②	 Mode	Set operating mode: Cool → Dry→ Fan→ Heat
③	▼ Adjust downwards	Adjust the temperature setting or timer (programmed time) downwards
④	 Soft wind	In Cool mode, press this button to turn on or off the Soft wind function.
⑤	 Vane select	In power-on status, press this button to select a vane to be controlled.
⑥	 Display	Turn on or off the display of the indoor unit
⑦	 Timer on/off	Set the time to turn on/off the unit
⑧	 Silent	Turn on/off the silent function
⑨	▲ Adjust upwards	Adjust the temperature setting or timer (programmed time) upwards
⑩	 On/off switch	Switch on/off the unit
⑪	 Fan speed	Fan speed setting
⑫	 Auxiliary heater	Turn on/off the auxiliary heater function
⑬	 Sterilize	Turn on/off the sterilize function
⑭	 Vane angle	Adjust the angle of the horizontal louver
⑮	 Swing	Turn on/off the vertical swing function
⑯	 Self cleaning	Turn on/off the Self cleaning function
⑰	 Swing	Turn on/off the horizontal swing function

Operating the Remote Controller

Note:

- The buttons and are not available for first generation indoor units.
- The button is only available for indoor unit with individual vane control function.
- The is only available for indoor unit with soft wind function.

4. Name and Function on Display Screen

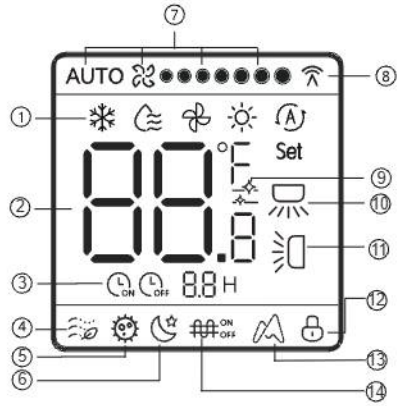


Figure 3.2 Display screen of remote controller

No.	Name	Display Function
①	Operating mode	Displays the current operating mode
②	Temperature	Displays current temperature setting
③	Timer On/Off	Displays times to turn on/off the unit
④	Soft wind	In Cool mode, press this button to turn on or off the Soft wind function
⑤	Sterilize function	Shows that Sterilize function is on
⑥	Silent mode	Shows that Silent is on
⑦	Fan speed	Displays the current fan speed
⑧	Signal transmission	Displays signal send to the indoor unit from the remote controller

⑨	Self cleaning	Shows Self cleaning function is on
⑩	Horizontal swing	Shows that Horizontal Swing is on
⑪	Vertical swing	Shows that Vertical Swing is on
⑫	Lock	Shows that the remote controller button is locked
⑬	Midea ETA function	Shows that Midea ETA function is on
⑭	Auxiliary heater	Shows that auxiliary heater is on

5. Operating Methods

5.1 On/Off Operations

1) Press (see Figure 3.3), Indoor unit starts to run;

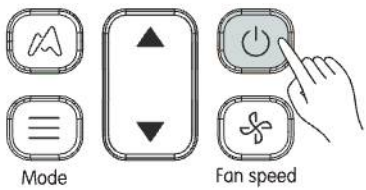


Figure 3.3

2) Press again. the indoor unit stops running.In power-off status, modes are displayed.

5.2 Mode and Temperature Operations

1) Press (see Figure 3.4). Display screen shows the operating mode ;

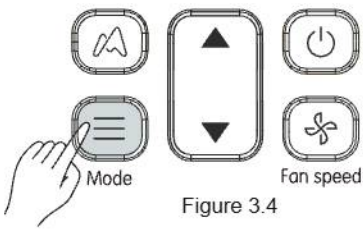


Figure 3.4

2) Press each time to change the operating mode according to the order shown in Figure 3.5;



Figure 3.5

3) In Cool, Dry or Heat mode, press ▲ and ▼ to adjust the temperature setting. Press ▲ and ▼ to adjust the temperature by 1 °C (default). Long press to change the temperature continuously.

Note:

• Temperature setting cannot be adjusted in the Fan mode.

5.3 Fan Speed Operations

Every time when you press the button, fan speed is changed in the following order.(see Figure 3.6).

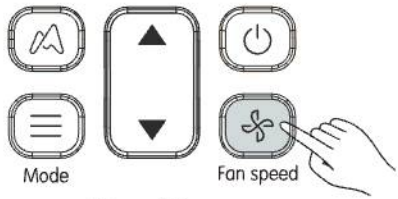


Figure 3.6

1) 7 fan speeds: The default in the remote controller is the mode with 7 fan speeds, where the Fan Speed will be adjusted in turn as shown in Figure 3.7;



Figure 3.7

2) 3 fan speeds: Fan Speed will be adjusted in turn as shown in Figure 3.8.



Figure 3.8

Note: • The fan speed set on the remote controller should match with the air conditioner. For how to set the fan speed, see section "Initial Settings" in this document.

• Fan speeds cannot be adjusted in Dry mode.

5.4 Soft Wind Operations

Press  to adjust the direction of the vertical louver (see Figure 3.9).



Figure 3.9

① In Cool mode, press this button to turn on or off the Soft wind function.
② In Soft wind function, the fan operates at the minimum speed and swings at the minimum angle.

5.5 Vane Selection Operations

In power-on status, press this button to select the vane to be controlled. If you press this button continuously, you can select vanes in circulating manner

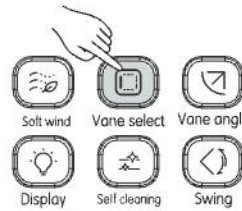


Figure 3.10

The indicator in the indoor unit corresponding to the selected vane will be on, and then off after 15 seconds. After selecting the vane to be controlled, you can use  and  set the swing angle.

5.6 Swing Operation

1) Vertical Swing

① When the unit is on. Press  (see Figure 3.11). Start the vertical swing function, and the  will light up, and signal is sent to the indoor unit;



Figure 3.11

② When the vertical swing is on, press to turn off this function.

Note:

• When the unit is turned off, the button is invalid.

• Each time the vertical swing signal is sent, the icon keeps lighting up for 15s and then disappears. The indoor unit remains vertical swing operation.

2) Horizontal Swing

① When the unit unit is on. Press (see Figure 3.12). Start the horizontal swing function, and will light up, and signal is sent to the indoor unit;

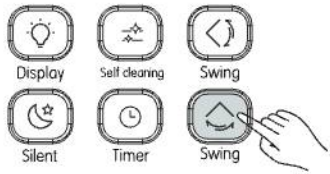


Figure 3.12

② When the horizontal swing is on, press to turn off the horizontal swing function.

Note:

• When the unit is turned off, the button is invalid.

• Each time the horizontal swing signal is sent, the icon keeps lighting up for 15s and then disappears. The indoor unit remains horizontal swing operation.

5.7 IDU Display Operations

The Display function is used to control the on/off state of the display in the indoor unit.

1) When the remote controller is in on or off state, press (see Figure 3.13), and the display of the indoor unit lights up;

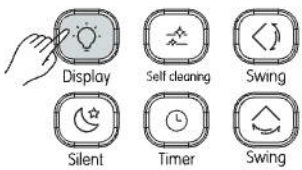


Figure 3.13

2) When the display of the indoor unit lights up, press to turn off the light.

5.8 Silent Mode Operation

The Silent function is used by the remote controller to send the "Silent" signal to the indoor unit. The indoor unit automatically optimizes the noise it generates when it is in the "Silent" mode.

1) When the unit is in the Cool or Heat mode, press (see Figure 3.14) to start the Silent function. Screen displays the icon;

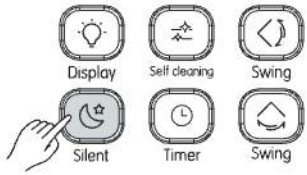


Figure 3.14

2) In Silent mode, press to turn off the Silent function, and the icon will disappear.

Note:

• Once it has been running for 8 hours, will no longer light up, and the unit will exit the Silent mode.

• The Silent and Midea ETA functions cannot be implemented at the same time.

5.9 Midea ETA function Operations

The remote controller can send the Midea ETA function signal to the indoor unit when the unit is operating in Cool or Heat mode.

1) Press (see Figure 3.15) to send the Midea ETA function signal to the indoor unit. The icon is displayed;

2) Then press , , , or to exit the Midea ETA function. The icon disappears.

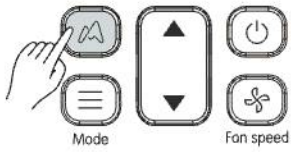


Figure 3.15

Note:

• When Midea ETA function is set up, the Fan Speed is forced to Auto.

• Once it has been running for 8 hours, will no longer light up.

• The Silent and Midea ETA function cannot be implemented at the same time.

5.10 Sterilize function Operations

1) Press and at the same time to start the Sterilize function. The screen will display the icon (see Figure 3.16);



Figure 3.16

2) When the Sterilize function is on, press and at the same time to turn off this function, and the icon will disappear from the display.

5.11 Timer On/Off Operations

"Timer" is used to set the timed on/off state of indoor unit.

1) When the unit is powered on:

① Press (see Figure 3.17), and the remote controller will display "Timer off", and "0.0H" will appear in the timer area. Adjust the Timer Off settings now;

② Press to adjust the timer settings;

③ Once the adjustment is done, the timer information is sent to the indoor unit.

2) When the unit is powered off:

① Press (see Figure 3.17), and the remote controller will display "Timer On", and "0.0H" will appear in timer area. Adjust the Timer On settings now;

② Press to adjust the timer settings;

③ Once the adjustment is done, the timer information is sent to the indoor unit.



Figure 3.17

Note:

• When Timer On is being set, you can set the power-on mode, fan speed, and temperature.

• If the timing period is more than 10 hours, the timing period increases by 1 hour.

• To change the time: Press the corresponding button, change the time, and then confirm the changes.

• Adjust the Timer on/off to 0.0h to cancel the Timer on/off settings.

5.12 Self cleaning Operation

Press (see Figure 3.18) to send the Self cleaning signal to the indoor unit. The icon is displayed



Figure 3.18

5.13 Button Lock Operations

Once the buttons on the remote controllers are locked, all the other button operations except for Unlock and IDU Address Setting are invalid.

1) Press and at the same time to lock the button (see Figure 3.19), and the screen will display the lock icon ;

2) Press and at the same time, and the lock icon will disappear. Button is unlocked.

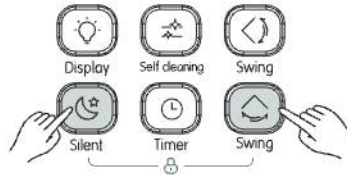


Figure 3.19

5.14 Auxiliary Heater Operations (reserved)

1) Press and at the same time to start auxiliary heater (see Figure 3.20), and the screen will display the icon ;

2) Press and at the same time, and the screen will display the icon , the signal of stop the auxiliary heater will send to the IDU.

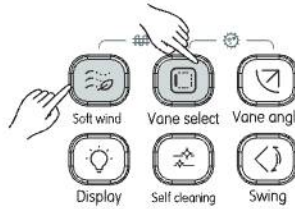


Figure 3.20

Field Settings

1.Initial Parameter Configuration for Remote Controller

1) Configuration Method:

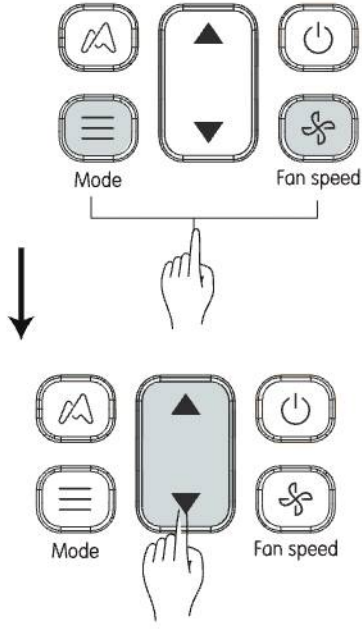
① Long press and on the remote controller at the same time for 8 seconds to go to the parameter settings status (see Figure 4.1);



Figure 4.1

② Press ▲ and ▼ to adjust the parameter value;

③ Once the adjustment is done, press or wait for 5 seconds to save the parameter settings. The operation sequence for the button is as shown in Figure 4.2.



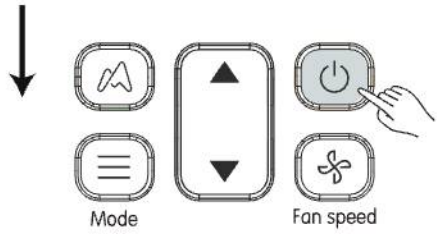


Figure 4.2

2) See Table 4.1 for details.

Table 4.1 Parameters of remote controller

Parameter	Parameter Definition
00	7 fan speeds, temperature adjustment step of 0.5 °C(default parameter)
01	3 fan speeds, temperature adjustment step of 1 °C
02	7 fan speeds, temperature adjustment step of 1 °C
03	3 fan speeds, temperature adjustment step of 0.5 °C
04	7 fan speeds, temperature adjustment step of 0.5 °C, Auto Mode
05	3 fan speeds, temperature adjustment step of 1 °C, Auto Mode
06	7 fan speeds, temperature adjustment step of 1 °C, Auto Mode
07	3 fan speeds, temperature adjustment step of 0.5 °C, Auto Mode

Note:

• For the first generation indoor units, please set the parameter to 01.

Field Settings

2.Advanced Parameter Configuration for Remote Controller

1) Configuration Method:

Parameters can be set in the state of power on or off.

① Long press and on the remote controller at the same time for 8 seconds to go to the advanced parameter settings status,"C1" will be displayed in the temperature display area(see Figure 4.3);

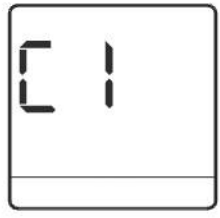


Figure 4.3

② Press ▲ and ▼ to adjust the parameter code;

③ Press to enter the parameter setting interface,then press the "▲" and "▼" keys to adjust the parameter value,refer to the advanced parameter setting list to select the setting parameters.(see Figure 4.4);

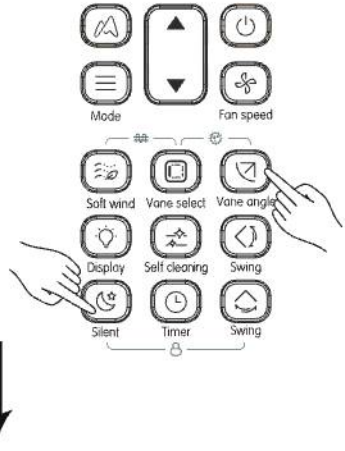




Figure 4.4

Parameter query: press the to send the query code, and the indoor unit display board displays the parameter code;

Parameter setting: press the key to send the setting code;

Press the to return to the previous layer until you exit the parameter setting;

If you enter the parameter code setting interface for the first time, you will exit the parameter setting automatically without operation after 60 seconds. If there is operation in the parameter setting interface, you will exit the parameter setting after 60 seconds.

2) See Table 4.2 for details.

Table 4.2 Advanced Parameters Setting.

Table 4.2 Advanced Parameters Setting

Code	Parameter	Value Range	Value Default	indoor Unit		Fresh Air Processing Unit-supply air Control		AHU kit-return air Control		AHU kit-supply air Control	
				The 2nd	V8	The 2nd	V8	The 2nd	V8	The 2nd	V8
C1	External static pressure settings	00/01/.../19	00	Static pressure values corresponding to 00/01/.../19: Check the installation manual for the indoor unit model				Invalid setting			
C2	The duration of fan stop whenheating thermo off	00	00	4 min(Default)		Invalid setting		10 min	10 min	Invalid setting	
		01		8 min					4 min(Default)		
		02		12 min					8 min		
		03		16 min					12 min		
		04		Non-stop fan					16 min		
C3	Fan stop temperature during anti-cold wind operation	00	00	15 °C(Default)		14 °C(Default)	5 °C(Default)	15 °C(Default)	15 °C(Default)	14 °C(Default)	5 °C(Default)
		01		20 °C		12 °C	5 °C	20 °C	10 °C	12 °C	5 °C
		02		24 °C		16 °C	5 °C	24 °C	24 °C	16 °C	5 °C
		03		26 °C		18 °C	Anti-cold wind ineffective	10 °C	Anti-cold wind ineffective	10 °C	Anti-cold wind ineffective
C4	T1 temperature compensation for heating operation	00	00	6 °C(Default)	6 °C(Default)	Invalid setting		6 °C(Default)	6 °C(Default)	Invalid setting	
		01		2 °C	2 °C			2 °C	2 °C		
		02		4 °C	4 °C			4 °C	4 °C		
		03		6 °C	8 °C			6 °C	6 °C		
		04		0 °C	0 °C			0 °C	0 °C		

Code	Parameter	Value Range	Value Default	indoor Unit		Fresh Air Processing Unit-supply air Control		AHU kit-return air Control		AHU kit-supply air Control	
				The 2nd	V8	The 2nd	V8	The 2nd	V8	The 2nd	V8
C5	T1 temperature compensation for cooling operation	00	00	0 ℃(Default)	0 ℃(Default)	Invalid setting		0 °C(Default)	0 °C(Default)	Invalid setting	
		01		2 °C	1 °C			2 °C	2 °C		
C6	Whether the unit has memory for power failure (indoor unit auto restart function)	00	00	N0		N0		N0		N0	
		01		YES		YES		YES		YES	
C7	EEV PLS selection during heating standby	00	01	56 P	56 P	72 P(Default)	56 P	72 P	56 P	72 P	56 P
		01		Auto(Default)	72 P	56 P	72 P	72 P(Default)	72 P	72 P(Default)	72 P
		02		0 P	0 P	72 P	0 P	72 P	0 P	72 P	0 P
C8	T4 temperature when auxiliary heater is enabled	40(-5 °C)～90(20 °C)	80	Default：80 (15 °C)		Invalid setting					
C9	Mode changeover time interval in auto mode	00	00	15 min(Default)		Invalid setting	15 min(Default)				
		01		30 min			30 min				
		02		60 min			60 min				
		03		90 min			90 min				
CA	Temperature difference value when the cooling thermo on to off	00	00	Invalid setting	1 °C(Default)	Invalid setting		Invalid setting	1 ℃(Default)	Invalid setting	
		01			2 °C				2 °C		
		02			0.5 °C				0.5 °C		
		03			1.5 °C				1.5 °C		
		04			2.5 °C				2.5 °C		

Field Settings

Note:
1The FF appearing in the C1-CA parameter value range indicates that the remote control is invalid for this parameter setting;
2 The C1 parameter is only valid when the indoor unit is a DC fan;
3T1: indoor temperature T4: outdoor temperature Ts: User set temperature;
4After the indoor unit uses the T1 sensor built-in in the controller to detect room temperature, the C4 and C5 settings are invalid, and the T1 temperature compensation value is 0 ˚C;
5The indoor unit model is the 2nd: If the C7 parameter is first set to 02-0P, the C2 parameter is automatically set to 00-4 min; If the C2 parameter is first set to 04-Non stop fan, then the C7 parameter is automatically set to 01-Auto;
6The indoor unit model is the V8: C7 parameter default value is Auto (remote control cannot select default value, only wire control supports default value setting);
7C8 parameter values and ˚C conversion formula: parameter values =˚C× 2 + 50for example parameter values = 80 Calculate ˚C = 15;
8The C9 parameter setting is invalid when AHU kit connects to a third-party controller;
9)There is a formula: T1 + temperature compensation(C5) - Ts ≤ 0 - Temperature difference(CA); for exampleTs = 25 ˚C
C5 = 00 - 0 ˚CCA = 00 - 1 ˚CWhen T1 ≤ 24 ˚C, the indoor unit starts from thermo on to off;
10When the indoor unit is in automatic mode, the CA parameter value is forced to be equal to 1 ˚C;

Field Settings

3.Indoor Units Parameter Check Function

In the state of power on or off, long press the and together for 8 seconds to enter the parameter setting page, then press the to send the command,and the indoor unit display will show the IDU current parameters corresponding to particular IDU model, for more information refer to IDU installation and operation instruction.
GenerallyThe first parameter refers to IDU address, and the second refers to IDU capacity/HP.

4. Indoor Unit Address Query and Setting

In the state of power on or off, long press the and together for 8 seconds to enter the address query page, then press the to send the address query command .
In Setting page, press UP and DOWN to adjust the address up and down respectively. Press to send the address to the indoor unit.

5. Indoor Unit Capacity Code Query

In the state of power on or off, long press the and together for 8 seconds to enter the capacity code query page,Press to homepage.

6. Fahrenheit/Celsius Temperature Switching

In ON status of the remote controller, press and hold and for 10 seconds to switch between Celsius and Fahrenheit temperature modes.
The remote controller uses the Celsius temperature mode by default.

Notes

R03P 1.5V(Minimum average duration:50min(Load 5.1Ω))
Nishika

WARNING:
Non-rechargeable.Do not stack or jumble batteries.Do not dispose of batteries in fire.Do not heat the batteries.Do not solder directly onto batteries.Do not disassemble batteries.Do not deform batteries.Do not mix different types of batteries.Insert batteries correctly.
KEEP OUT OF REACH OF CHILDREN.
Toxic substances other than lead, cadmium,and mercury:
Ammonium Chloride
Available fire extinguishers:dry powder fire extinguisher
Key strategic raw materials exceeding 0.1% by weight:
Zinc/Manganese







Type of product:No.7 carbon battery
Weight:11.59 g
Production batch: Based on the actual battery packaging
Manufacturer/Factory: TIANQIU ELECTRONICS TECNNOLOGY CO.,LTD.
Address: Xinji Tianqiu Energy Industrial Park, Machong Town, Dongguan City, Guangdong Province
Made in China
Importer: same as the end product
Address of importer: same as the end product

16117000002741 V.E

印刷技术要求

材质	80g双胶纸
规格	104*184(双面)
颜色	黑白
其他	/

设计更改记录表（仅做说明用，不做菲林）

版本升级	更改人	更改日期	更改主要内容	涉及更改页面（印刷页码）
A升级到B	邹健伟	20221124	修改描述 修改默认参数由02改到00 修改描述	P17 P21 P16
B升级到C	邹健伟	20230223	修改描述	P26
C升级D	许忠亮 李波	2024-7-8	1、更新参数设置表格内容 2、更新参数设置提示	P24/P25/P26
D升级E	许忠亮 李怡	2025-4-2	1、增加摄氏度、华氏度切换操作说明 2、增加电池环保内容	P27/P28