OPERATION AND INSTALLATION MANUAL

RM23A Remote Controller

Read this manual carefully before using the product, and keep it for future reference.
All the pictures in this manual are for illustration purpose only.

Contents

Safety Signs

⚠	**CAUTION**	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury
💡	**Note**	Useful operation and maintenance information

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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.

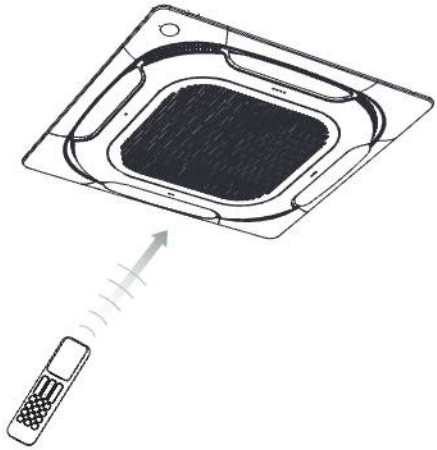


- Ensure that nothing interrupts operation of the wireless remote controller.
- Ensure that the signal from the remote controller can easily be transmitted.
- Ensure that the operation display light and other indicator lights can easily be seen.
- Ensure that there is neither a source of light nor a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

Installation

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, the command won't be accepted and executed.



- 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	AAA battery		2
②	Operation and installation manual		1

3. Dimensions of Remote Controller

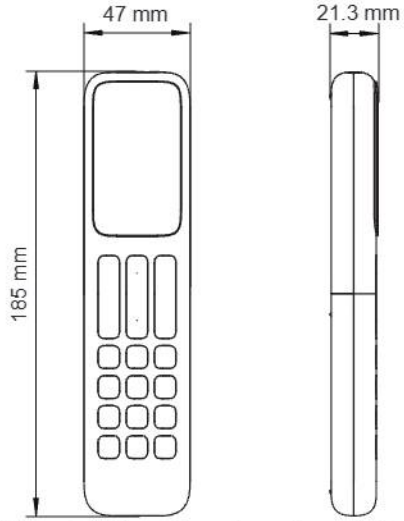


Figure 2.1 Dimensions of remote controller

Installation

4. 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 2.2);

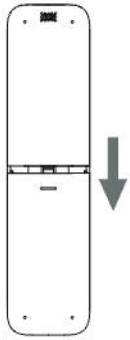


Figure 2.2

2) Lift up from the lower left end of the battery cover to open it (see Figure 2.3);

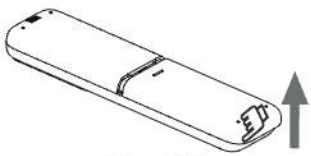


Figure 2.3

3) Take out the old batteries. Install two new AAA batteries according to the positive and negative polarities indicated (see Figure 2.4). Close the battery cover.

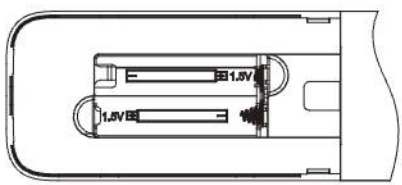


Figure 2.4

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 CAUTION and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.



CAUTION
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.



NOTE

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 Button Parameters

Product Model	RM23A
Rated Voltage	3.0 V (AAA battery x 2)
Ambient Temperature	-5 to 43°C
Ambient Humidity	RH ≤ 90%

3. Buttons and Functions

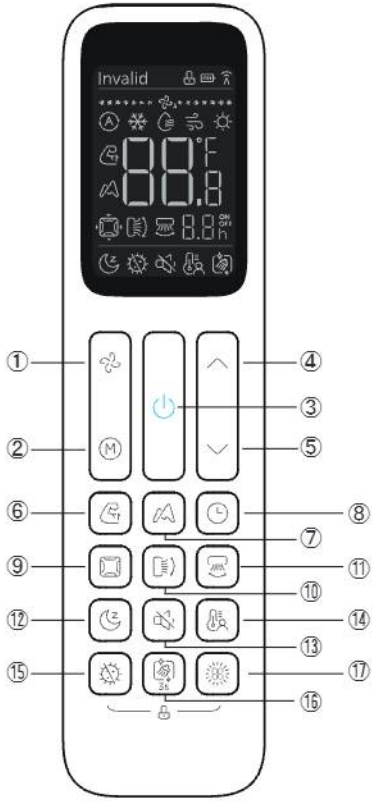


Figure 3.1 External view of remote controller

Operating the Remote Controller

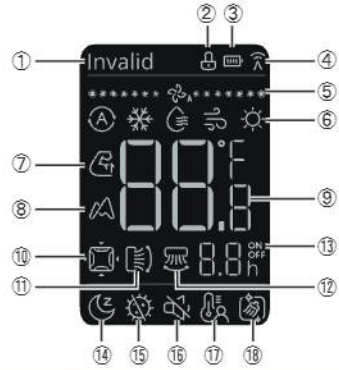
No.	Button	Function
①	 Fan speed	Set the fan speed.
②	 Mode	Set the operating mode: Auto→Cool→Dry→Fan→Heat.
③	 On/Off	Power on/off the indoor unit.
④	 Up	Increase the temperature or time.
⑤	 Down	Decrease the temperature or time.
⑥	 Turbo	Turn the turbo function on/off.
⑦	 ETA	Turn the ETA function on/off.
⑧	 Timer	Turn the timer function on/off.
⑨	 Louver selection	Select target louver.
⑩	 Vertical swing	Adjust the vertical louver angle or enable the vertical swing function.
⑪	 Horizontal swing	Turn the horizontal swing function on/off.
⑫	 Sleep	Turn the sleep mode on/off.
⑬	 Silent	Turn the silent function on/off.
⑭	 Follow Me	Turn the follow me function on/off.
⑮	 Sterilization	Turn the sterilization module on/off.
⑯	 Self-cleaning	Turn the self-cleaning function on/off.
⑰	 Indoor unit display	Turn the display of the indoor unit on/off.

Note:

- "Silent" and "Turbo" are available only for the latest indoor unit.
- The indoor unit runs in "ECO" mode if it does not support the "ETA" function.

Operating the Remote Controller

4. Icons and Functions

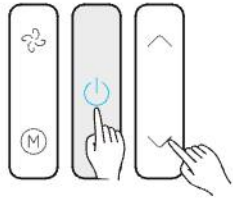


No.	Icon Name	Function
1	Invalid-instruction prompt	Indicate that the function instruction corresponding to the current button cannot be sent.
2	Lock	Display the locked state of the remote controller.
3	Battery level	Display the current battery level of the remote controller.
4	Signal prompt	Indicate that the remote controller is currently sending a instruction.
5	Fan speed	Display the current fan speed.
6	Mode	Display the current setting mode.
7	Turbo	Indicate that the turbo function is on.
8	ETA	Indicate that the ETA function is on.
9	Temperature	Display the temperature settings.
10	Louver selection	Display the air louver selection status.
11	Vertical swing	Indicate that the swing vertical swing function is on or display the vertical angle.
12	Horizontal swing	Indicate that the swing horizontal swing function is on.
13	On/Off timer	Display the time after which the indoor unit will be on/off.
14	Sleep	Indicate that the sleep function is on.
15	Sterilization	Indicate that the sterilization function is on.
16	Silent	Indicate that the silent function is on.
17	Follow Me	Indicate that the follow me function is on.
18	Self-cleaning	Indicate that the self-cleaning function is on.

5. Operation Methods

5.1 On/Off Operation

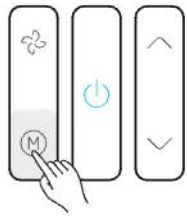
1) Press (⏻) . The indoor unit starts to run.



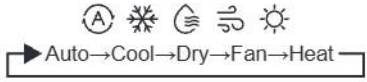
2) Press (⏻) again. The indoor unit stops running. In power-off status, modes are displayed.

5.2 Mode and Temperature Operation

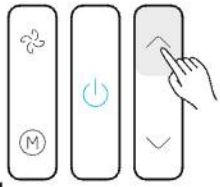
1) Press (Ⓜ) . The display screen shows the operating mode.

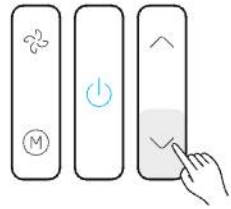


2) Press (Ⓜ) each time to change the operating mode according to the order shown.



3) In cool, dry or heat mode, press (∧) or (∨) to adjust the temperature settings. Press (∧) or (∨) to adjust the temperature by 1°C (default). Press and hold to change the temperature continuously.



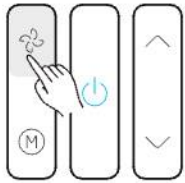


Note:

• Temperature settings cannot be adjusted in the fan mode.

5.3 Fan Speed Operation

Every time you press the button, the fan speed is changed in the following order.



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.

Auto Speed1 Speed2

Speed3 Speed4 Speed5

Speed6 Speed7

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

Auto

Low Mid High

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.
- In auto mode, the fan speeds are displayed cyclically.
- Fan speeds cannot be adjusted in dry mode.

5.4 Turbo Function

The Turbo function is used to turn the Turbo mode on/off.

1) In cool or heat mode, press to enter the turbo mode, and lights up.
2) When the indoor unit has turned on the turbo function, press again to turn off the function, and the light turns off.
3) After the turbo function is on for 30 minutes, it is turned off automatically and the light turns off.



Note:

- The turbo function cannot be turned on in fan, dry, and auto modes.
- The Sleep Silent Turbo and ETA functions cannot be implemented at the same time.

5.5 ETA Operation

The remote controller can send the signal to the indoor unit when the unit is operating in cool, heat or auto mode.

1) Press to send the ETA signal to the indoor unit, icon is displayed.
2) Then press or to exit the ETA function. The icon disappears.



Note:

- Once it has been running for 8 hours, will no longer light up, and the unit will exit the ETA mode.
- The Silent Sleep Turbo and ETA functions cannot be implemented at the same time.
- The ETA function cannot be turned on in fan and dry modes.

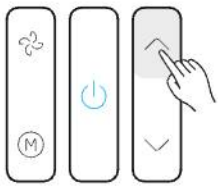
5.6 Timer On/Off Operation

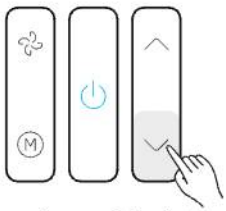
"Timer" is used to set the timed on/off state of the indoor unit.

1) Timer On Operation:

(1) In power-off state of the remote controller, press , and the remote controller displays the following icon: keeping flashing for 5s.

(2) Press the or button to adjust the turn on time.





(3) After the time is adjusted, press again or wait for 5s to send the specified time and startup mode to the indoor unit, the icon stop flashing.

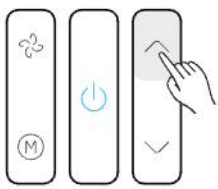


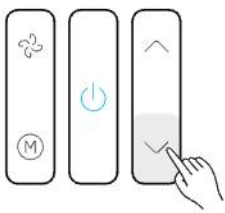
(4) When the on time is set and the timer on icon stop flashing, the remote controller can set the temperature, mode and fan speed to update those for the scheduled startup.

2) Timer Off Operation:

(1) In power-on state of the remote controller, press , and the remote controller displays the following icon: keeping flashing for 5s.

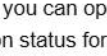
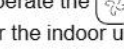
(2) Press the or button to adjust the turn off time.





(3) After the time is adjusted, press  again or wait for 5s to exit the timer off setting.

Note:

- When Timer On is being set, you can set the power-on mode, fan speed, and temperature.
- When the set timer exceeds 10 hours, the set pace will increase by 1 hour.
- To change the time: Press the button , change the time, and then press the button  again or wait for 5s to confirm the changes.
- Adjust the Timer on/off to 0.0h or press and hold for 2s to cancel the Timer on/off settings.
- The time setting mode exits if no operation is performed for more than 5s.
- When  is flashingall the other button operations except for  and  are invalid.
- Once the icon  stop flashing that means the on/off time has been fixed and you can operate the  and  button to set the target on status for the indoor unit.
- During these status settings, please keep the controller toward the indoor unit to make sure the commands can be received.

5.7 Louver Selection Operation

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



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

5.8 Swing Operation

5.8.1 Vertical Swing

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



(2) When the vertical swing is on, press to change the vertical angle.

Note:

- When the indoor unit is turned off, the button is invalid.
- When the vertical swing signal is sent, the icon keeps lighting up and show the vertical angle.

5.8.2 Horizontal Swing

(1) When the indoor unit is on, press . Start the horizontal swing function, and will light up, and the signal is sent to the indoor unit.



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

Note:

- When the indoor unit is turned off, the button is invalid.
- Each time the horizontal swing signal is sent, the icon keeps lighting up for 10s and then disappears. The indoor unit remains horizontal swing operation.

5.9 Sleep Mode Function

The Sleep function is used by the remote controller to send the sleep signal to the indoor unit. The indoor unit automatically optimizes the temperature it generates when it is in sleep mode.

1) when the unit is in the cool or heat mode, press to start the Sleep function. The screen displays .
2) In sleep mode, press to turn off the Sleep 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 Sleep mode.
- The Sleep Silent Turbo and ETA functions cannot be implemented at the same time.
- The sleep mode function cannot be turned on in fan, dry, and auto modes.

5.10 Silent Mode Function

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 Function.

1) When the indoor unit is in the cool or heat mode, press to start the Silent function. The screen displays .
2) In silent mode, press to turn off the Silent function, and the icon will disappear.

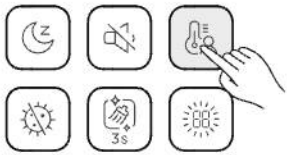


Note:

- In Silent modethe fan speed is set to Auto Mode, the airflow rate is set to a weak level.
- The Sleep Silent Turbo and ETA functions cannot be implemented at the same time.

5.11 Follow Me Operation

1) When the indoor unit is in the cool, heat or auto mode, press to start the Follow Me function. The screen will display .
2) The displayed temperature is the room temperature detected by the remote controller.
3) When the Follow Me function is on, press to turn off this function, and the icon will disappear from the display.

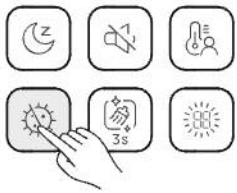


Note:

- The remote controller sends room temperature to the indoor unit every 7 min.

5.12 Sterilize Function Operation

Press to start the Sterilize function. The screen will display the icon .



Note:

- This function is available only if it is supported by the indoor unit.

5.13 Self-cleaning Operation

Press and hold for 3s to send the self-cleaning signal to the indoor unit. The icon is displayed.

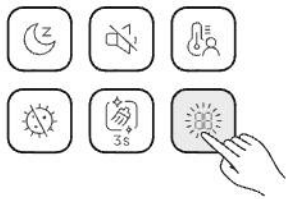


Note:

- This function is available only if it is supported by the indoor unit.

5.14 Display Lamp Control

The on/off state of the display lamp can be controled through the button .



5.15 Button Lock Operation

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



1) Press and hold and at the same time to lock the button, and the screen will display the lock icon .
2) Press and hold and at the same time, and the lock icon will disappear. The button is unlocked.

Parameter Settings

1. Initial Parameter Configuration for Remote Controller

1) Configuration Method:

(1) Press and hold (M) and (∨) on the remote controller at the same time for 5 seconds to go to the parameter settings status.

(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.

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, auto mode (default parameter)
01	3 fan speeds, temperature adjustment step of 1°C, auto mode
02	7 fan speeds, temperature adjustment step of 1°C, auto mode
03	3 fan speeds, temperature adjustment step of 0.5°C, auto mode
04	7 fan speeds, temperature adjustment step of 0.5°C
05	3 fan speeds, temperature adjustment step of 1°C
06	7 fan speeds, temperature adjustment step of 1°C
07	3 fan speeds, temperature adjustment step of 0.5°C

Note

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

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

If you enter the parameter setting interface for the first time, you will exit the parameter setting automatically without operation after 60-120 seconds. If there is operation in the parameter setting interface, you will exit the parameter setting after 60-120 seconds.

2. Advanced Parameter Configuration for Remote Controller

1) Configuration Method:

(1) Press and hold  and  on the remote controller at the same time for 5 seconds to go to the advanced parameter settings status,"C0" will be displayed in the temperature display area.

(2) Press  and  to adjust the parameter code;

(3) Press  to enter the parameter setting interface, then press the  and  buttons to adjust the parameter value, refer to the advanced parameter setting list to select the setting parameters.

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

(5) Parameter setting: press the  button to send the setting code;

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

(7) If you enter the parameter setting interface for the first time, you will exit the parameter setting automatically without operation after 60-120 seconds. If there is operation in the parameter setting interface, you will exit the parameter setting after 60-120 seconds.

Parameter Settings

2) See Table 4.2 for details.

Table 4.2 Advanced Parameters Setting.

Parameter Code	Parameter	Parameter Range	Default Value	Remarks						
C0	Performance parameters	/	/	The remote controller displays only C0. During sending, the display panel displays the HP of the current indoor unit.						
C1	Static pressure setting of indoor unit	00/01/02/03/04/05/06/07/08/09/~/19/FF	00	The indoor unit sets the corresponding static pressure. FF (Value specified before the main board of the indoor unit is changed)						
C2	Time to stop the fan of V6 indoor unit	00/01/02/03/04/FF	00	Parameter	00	01	02	03	04	FF
				Value description	4 min	8 min	12 min	16 min	0 fan on	Value before change
	Time to stop the fan of V8 indoor unit	00/01/02/03/04/FF	00	Parameter	00	01	02	03	04	FF
				Value description	Fan off	4 min	8 min	12 min	16 min	Value before change
C3	indoor unit's anti-cold wind temperature	00/01/02/03/FF	00	Parameter	00	01	02	03		FF
				Common indoor unit	15°C/59F	20°C/68F	24°C/75F	26°C/79F		Value before change
C4	indoor unit heating temperature compensation	00/01/02/03/04/FF	00	Parameter	00	01	02	03	04	FF
				VRF unit	6°C/43F	2°C/36F	4°C/39F	6°C/43F	0°C/32F	Value before change
				Parameter	00	01	02	03	04	FF
				Mini VRF unit	6°C/43F	2°C/36F	4°C/39F	8°C/46F	0°C/32F	Value before change
C5	indoor unit cooling temperature compensation	00/01/02/03/04/FF	00	Parameter	00	01	FF	02/03/04		
				VRF unit	0°C/32F	2°C/36F	Main board DIP of the indoor unit	Invalid		
			00	Parameter	00	01	02	03	04	FF
				Mini VRF unit	0°C/32F	1°C/34F	2°C/36F	3°C/37F	-1°C/30F	Invalid
C6	Whether the indoor unit has memory for power failure	00/01/FF	00	00: No 01: Yes FF: Value before indoor unit change						
C7	EXV opening selection during heating standby	00/01/02/FF	01	Parameter	00	01	02	FF		
				Value description	56	72	0	Value before indoor unit change		
C8	Outdoor temperature when auxiliary heater is enabled	40-90	80	Actual temperature x 2 + 50 (°C) [Range: 40 to 90, that is, −5°C to 20°C]. 80 (15°C) by default						
C9	Mode changeover time interval in auto mode	00/01/02/03	00	Parameter	00	01	02	03		
				Value description	15 min	30 min	60 min	90 min		
CA	Cooling return difference temperature	00/01/02/03	00	Parameter	00	01	02	03	04	
				Value description	1°C	2°C	0.5°C	1.5°C	2.5°C	

Note:

(1)C1When the indoor unit is set to constant speed, this setiing will take affect. The static pressure of each value please refer to the technical manual of the indoor unit.

(2)C2:This setting value means when the set temperature has been reached in heating mode, the fan will operate for * minutes then off 1 minute as a repeating cycle. * stand for the Value in C2.

(3) FF:

For V6 indoor unit FF means that this setting has a corresponding dial switch on the indoor unit PCB and the position of the switch determines the value of this parameter.

For V8 indoor unit V8 indoor unitFF signal is invalid.

(4) Default Value: It means this parameter does not have a dial switch on the main PCB and in case of no setting, the default value shall prevail;

(5) "The indoor unit fan stop time in heating mode" and the "Opening Degree of EXV" are two mutually exclusive settings. The setting which is done in the last would be effective. When set the heating EXV standby position later, the indoor unit fan switching time will automatically change to default value. When you set the fan stop time later, the default EXV opening will change to 72 p automaticallytime later, the default EXV opening will change to 72 p automatically.

(6) AHU includes two options: return air and fresh air control. If AHU is written only, it indicates that both of these controls are applicable simultaneously.

(7)When the interface displays C0, press the On/Off button for the remote controller to send the capability query instruction. The display panel displays the capability of the current indoor unit.This function is available only if it is supported by the indoor unit.

3. Indoor Units Parameter Check Function

While the device is powered on or off, press and hold  and  on the remote controller at the same time for 5 seconds to go to the advanced parameter settings status, then press  to send the command, and the indoor unit display will display the indoor unit current parameters corresponding to particular indoor unit model. For more information refer to indoor unit installation and operation instruction.

When the interface displays C3, is invalid for the V8 indoor unit.

Parameter Settings

4. Indoor Unit Address Query And Setting

In the powered-on or powered-off state, press and hold the  and  together for 5 seconds to enter the address query page, and then press the  to send the address query command.

On the Settings page, press  and  to adjust the address up and down, respectively. Press  to send the address to the indoor unit.

In setting page, press  to homepage.

5. Fahrenheit/Celsius Temperature Switching

In ON status of the remote controller, press and hold  and  for 5s to switch between Celsius and Fahrenheit temperature modes.

The remote controller uses the Celsius temperature mode by default.

6. Screen-On/Off Logic Setting

By default, screen-on/off logic is depending on a motion sensor. When you pick up the remote controller the screen will automatically light up. And when it is place down for 8 seconds the screen will darken . In OFF status of the remote controller, press and hold  and  for 5s to turn off this function. When the motion sensor function is off, you need to press the button to light up the display before operation and the screen will turn off if no button operation for 8 seconds.

16117000003281 V.C

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）

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）
V.A-V.B	许忠亮	2024.05.24	将所有RM23A/BGFE字样改为RM23A	1、封面 2、正文页码6页
V.B-V.C	许忠亮	2024.06.25	删除效果图上美的LOGO，中性化说明书，增加适用性	1、正文页码7页 2、封底版本号