

CITY MULTI Control System and Mitsubishi Mr. Slim Air Conditioners

MA Remote Controller PAR-31MAA

Simple Operation Manual

Français Español Italiano **Nederlands** Português Ελληνικά Русский Türkçe Český Slovenský Magyar Polski Slovenščina Svenska Hrvatski Български Română Dansk

English

Deutsch

Prior to use, thoroughly read the instructions in this manual to use the product correctly. Retain for future reference.

Make sure that this manual, CD-ROM, and the Installation Manual are passed on to any future users.

To ensure safety and proper operation of the remote controller, the remote controller should only be installed by qualified personnel.

Safety precautions

Thoroughly read the following safety precautions before using the unit.

Observe these precautions carefully to ensure safety.

Indicates a risk of death or serious injury.
Indicates a risk of serious injury or structural damage.

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• After reading this manual, pass it on to the end user to retain for future reference.

- Keep this manual for future reference and refer to it as necessary. This manual should be made available to those who repair or relocate the controller. Make sure that the manual is passed on to any future users.
- For information not contained in this booklet, please refer to the Instruction Book on the CD-ROM that is supplied with the Remote Controller.

General precautions

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Do not install the unit in a place where large amounts of oil, steam, organic solvents, or corrosive gases, such as sulfuric gas, are present or where acidic/alkaline solutions or sprays are used frequently. These substances can compromise the performance of the unit or cause certain components of the unit to corrode, which can result in electric shock, malfunctions, smoke, or fire.

To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not wash the controller with water or any other liquid.

To reduce the risk of electric shock, malfunctions, smoke or fire, do not operate the switches/buttons or touch other electrical parts with wet hands.

When disinfecting the unit using alcohol, ventilate the room adequately. The fumes of the alcohol around the unit may cause a fire or explosion when the unit is turned on. To reduce the risk of injury or electric shock, before spraying a chemical around the controller, stop the operation and cover the controller.

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To reduce the risk of injury or electric shock, stop the operation and switch off the power supply before cleaning, maintaining, or inspecting the controller.

If any abnormality (e.g., burning smell) is noticed, stop the operation, turn off the power switch, and consult your dealer. Continued use of the product may result in electric shock, malfunctions, or fire.

Properly install all required covers to keep moisture and dust out of the controller. Dust accumulation and water can cause electric shock, smoke, or fire.

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To reduce the risk of fire or explosion, do not place flammable materials or use flammable sprays around the controller.

To reduce the risk of damage to the controller, do not directly spray insecticide or other flammable sprays on the controller.

To reduce the risk of environmental pollution, consult an authorized agency for proper disposal of remote controller.

To reduce the risk of electric shock or malfunctions, do not touch the touch panel, switches, or buttons with a pointy or sharp object. To reduce the risk of injury and electric shock, avoid contact with sharp edges of certain parts.

To avoid injury from broken glass, do not apply excessive force on the glass parts.

To reduce the risk of injury, wear protective gear when working on the controller.

Precautions for moving or repairing the controller

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The controller should be repaired or moved only by qualified personnel. Do not disassemble or modify the controller.

Improper installation or repair may cause injury, electric shock, or fire.

To reduce the risk of shorting, electric shock, fire, or malfunction, do not touch the circuit board with tools or with your hands, and do not allow dust to accumulate on the circuit board.

Additional precautions

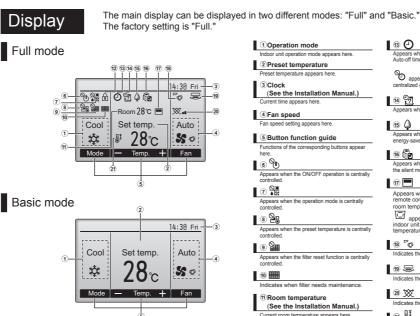
To avoid damage to the controller, use appropriate tools to install, inspect, or repair the controller.

This controller is designed for exclusive use with the Building Management System by Mitsubishi Electric. The use of this controller for with other systems or for other purposes may cause malfunctions. To avoid discoloration, do not use benzene, thinner, or chemical rag to clean the controller. To clean the controller, wipe with a soft cloth soaked in water with mild detergent, wipe off the detergent with a wet cloth, and wipe off water with a dry cloth.

To avoid damage to the controller, provide protection against static electricity.

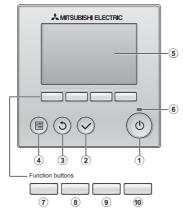
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Names and functions of controller components



* All icons are displayed for explanation.

Controller interface



- When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the $\boxed{\text{ON/OFF}}$ button) Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Menu screen.

	1 Operation mode	13 🕘	
	Indoor unit operation mode appears here.		Off timer, Night setback, or
	Preset temperature	Auto-off timer function is	s enabled.
	Preset temperature appears here.	O appears when the	e timer is disabled by the
1	3Clock	centralized control syste	
1	(See the Installation Manual.)		
	Current time appears here.	14 7	
	④Fan speed	Appears when the Wee	kly timer is enabled.
	Fan speed setting appears here.	15 🗳	
	5 Button function guide	Appears while the units energy-save mode.	are operated in the
	Functions of the corresponding buttons appear		
	here.	16 2	
	6 U	Appears while the outdo the silent mode.	oor units are operated in
_	Appears when the ON/OFF operation is centrally controlled.		
	~ © *	17	
. L			ilt-in thermistor on the ctivated to monitor the
	Appears when the operation mode is centrally controlled	room temperature (1	
	 (в) Рад 		the thermistor on the
	Appears when the preset temperature is centrally	indoor unit is activate	d to monitor the room
	controlled.	temperature.	
	9 🎦	18 °Q	
	Appears when the filter reset function is centrally	Indicates the vane settir	ıg.
_	controlled.	19 🛲	
1	10	Indicates the louver set	ing.
	Indicates when filter needs maintenance.		
	11 Room temperature	20 💥	
	(See the Installation Manual.)	Indicates the ventilation	setting.
	Current room temperature appears here.	2) 📲	
	12 🛱	Appears when the presi	et temperature range is
	Appears when the buttons are locked.	restricted.	
	1 ON/OFF button	The functions of the f change depending on	
	Press to turn ON/OFF the indoor unit.	to the button function at the bottom of the L	guide that appears
		they serve on a given	
	(2) SELECT button	When the system is c the button function g	
	Press to save the setting.	corresponds to the lo appear.	
I.	3 RETURN button	Main display	Main menu
	Press to return to the previous screen.	11:33 Fri	
		Room 2010 FF	Main Main menu 1/3 Vanis Louver Vent. (Lossnay) High power Tener
		Cool Set terms Auto	Timer Weekly timer

④ MENU button

5 Backlit LCD Operation settings will appear. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen

6 ON/OFF lamp This lamp lights up in green while the unit is in operation. It blinks while the remote

controller is starting up or when there is an error.

e On/Off timer, Night setback, or

Press to bring up the Main menu

⑦ Function button F1 Main display: Press to change the operation mode

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Main menu: Press to move the cursor down 8 Function button F2

7 8

Main display: Press to decrease temperature Main menu: Press to move the cursor up.

9 Function button F3 Main display: Press to increase temperature. Main menu: Press to go to the previous page.

10 Function button F4

Main display: Press to change the fan speed. Main menu: Press to go to the next page.

Basic operations

Operation mode icons

•				
🗱 Cool 🌢 Dry 😽 Fan 🛟 Auto				
Heat 🛟 🗱 Auto cool 🛟 🗨 Auto heat				
Turning ON and selecting operation mode				
1 Press button ① (ON/OFF).				
Press button () (F1) to go through the operation modes.				
$\begin{array}{c c} \hline & Cool & \longrightarrow & Dry & \longrightarrow & Fan & \longrightarrow & Auto & \longrightarrow & Heat \\ & & & & & & & & \\ & & & & & & & & & $				
*1 Operation modes that are not available to the connected indoor unit models will not appear on the display. *2 Single or dual set points will appear, depending on the indoor unit model. * Interlocked operation is performed in all the operation modes when the ventilation unit is interlocked.				
Preset temperature setting				
Preset temperature will be displayed either in Celsius in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.				
<cool, (single="" and="" auto="" dry,="" heat,="" point)="" set=""></cool,>				
Press button ⑧ (F2) to decrease the preset temperature. Press button ⑨ (F3) to increase the preset temperature.				
<auto (dual="" point)="" set=""></auto>				
 Press button (a) (F2) or (F3). Press button (c) (F1) or button (c) (F2) to move the cursor to the desired temperature setting (cooling or heating). Press button (c) (F3) to decrease the selected temperature, and (c) (F4) to increase. 				
Preset temperature				
Room 26'c				
Auto Auto Auto Auto Auto Preset temperature Main display: Cursor A – Temp. +				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				

Operation mode	Preset temperature range
Cool/Dry	19 ~ 30 °C (67 ~ 87 °F) *1
Heat	17 ~ 28 °C (63 ~ 83 °F) *1
Auto (Single set point)	19 ~ 28 °C (67 ~ 83 °F) *1
Auto (Dual set points)	[Cool] Preset temperature range for the Cool mode *2 [Heat] Preset temperature range for the Heat mode
Fan/Ventilation	Not settable

- The temperature range restriction setting will be applied preferentially, if any. If the setting value is outside of the range, a message "Temp. range locked" will appear. Refer to the Instruction Book of the remote controller for details.
- *1 The settable temperature range varies with the model of indoor units.
- *2 The preset temperature settings for cooling and heating in the Auto (dual set point) mode are used by the Cool/Dry and Heat modes.

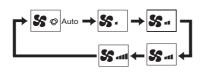
The preset temperatures for cooling and heating in the Auto (dual set point) mode can be set to meet the conditions below:

- · Preset cooling temperature is higher than preset heating temperature.
- The minimum temperature difference requirement between cooling and heating preset temperatures (varies with the models of indoor units connected) is met.

Fan speed setting

Press button 10 (F4) to go through the fan speed.

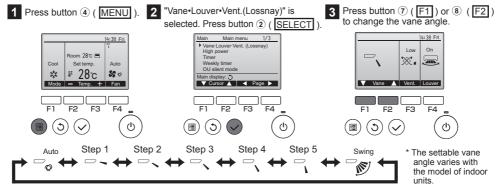
* The number of available fan speeds depends on the model.



<Note>

- The actual fan speed will be different from the fan speed displayed on the LCD when one of the following conditions is met.
- While "Standby" or "Defrost" is displayed · When the room temperature is higher than the preset temperature during the heating mode • Right after the heating operation (during stand by for switching the
- operation mode)
- During the dry mode

Vane setting



<Note>

The actual vane angle will be different from the vane angle displayed on the LCD when one of the following conditions is met. • While "Standby" or "Defrost" is displayed

• The room temperature is higher than the preset temperature during the heating mode

• Right after the heating operation (during stand by for switching the operation mode)

Automatic cooling/heating operation Press button ① (ON/OFF). Press button ⑦ ([-1]) to display the operation mode "Auto".

<Auto (dual set point)>

When the room temperature is higher than the preset cooling temperature, cooling operation starts. When the room temperature is lower than the preset heating temperature, heating operation starts.

* When the operation mode is set to the Auto (dual set point) mode, only "Auto" will appear on the display, even if the display setting of "Auto cool/Auto heat" is enabled.

Ventilation operation

When performing an interlocked operation of the ventilation unit with the indoor unit> Press button ① (ON/OFF) to turn both the indoor unit and the ventilation unit on.

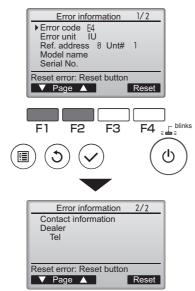
<When operating the ventilation unit individually>



Indoor unit fan may operate even when the ventilation unit is operated individually, depending on the models of the indoor unit and the ventilation unit.

Troubleshooting

When an error occurs, the following screen will appear. Check the error status, stop the operation, and consult your dealer.



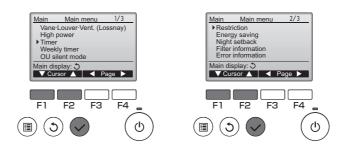
Error code, error unit, refrigerant address, unit model name, and serial number will appear. The model name and serial number will appear only if the information have been registered.

Press button (7) (F1) or (8) (F2) to go to the next page.

Contact information (dealer's phone number) will appear if the information have been registered.

Timer, Weekly timer, Energy saving

The settings for Timer, Weekly timer, and Energy saving operation can be made from the remote controller. Press button ((\underline{MENU})) to go to the Main menu, and move the cursor to the desired setting with button (\overline{T}) ($\underline{F1}$) or ($\underline{F2}$). Refer to the Instruction Book of the remote controller for further information.



Timer

On/Off timer

Operation On/Off times can be set in 5-minute increments.

Auto-Off timer

Auto-Off time can be set to a value from 30 to 240 in 10-minute increments.

Weekly timer

Operation On/Off times for a week can be set. Up to eight operation patterns can be set for each day.

Energy saving

· Automatic return to the preset temperature

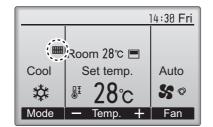
The units operate at the preset temperature after performing energy-save operation for a preset time period. The preset time can be set to a value from 30 to 120 in 10-minute increments.

- Setting the energy-saving operation schedule
 The start/stop times to operate the units in the energy-save mode for each day of the week and the energy-saving rate can be set.
 Up to four operation patterns can be set for each day.
 - The times can be set in 5-minute increments.

The energy-saving rate range is 0% and 50 to 90% in 10% increments.

Maintenance

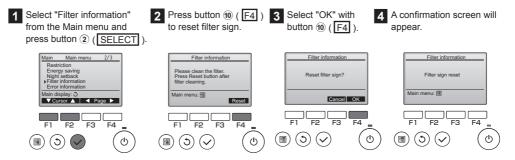
Filter information



will appear on the Main display in the Full mode when it

is time to clean the filters.

Resetting the filter sign



<Note>

- Make sure to clean the filters before resetting filter sign. When the filter sign is reset, the cumulative operation time of the unit will be reset.
- If two or more indoor units of different models are connected, the filter sign will appear when the filter on one of the indoor units is due for cleaning. (long life filter: 2500 hours, general filter: 100 hours)
- When the filter sign is reset, the cumulative operation time of all units will be reset.
- The filter sign is scheduled to appear after a certain duration of operation, based on the premise that the indoor units are installed in a space with ordinary air quality. Depending on the air quality, the filter may require more frequent cleaning.