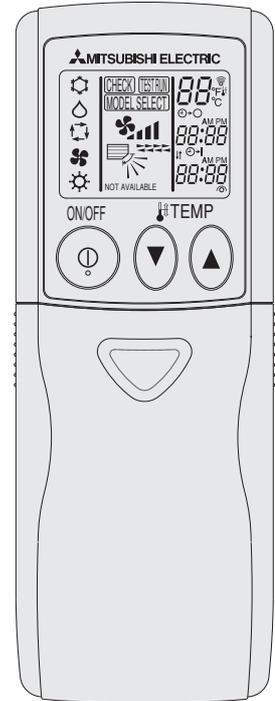


MITSUBISHI ELECTRIC CORPORATION

# Mitsubishi Electric Building Air Conditioning Control System

## Wireless Remote Controller      PAR-FL32MA

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### INSTRUCTION BOOK

- Read this manual thoroughly before using the remote controller.
- For those who carry out the installation work.  
After completing all the work, explain how to operate the remote controller to the customer referring to this manual, then hand the manual over to him.

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## 1. Safety Precautions

- Be sure to read these Safety precautions thoroughly and install the remote controller correctly.
- The following two symbols are used to denote dangers that may be caused by incorrect use. They are classified according to the degree of danger.

 **WARNING:** This symbol denotes what could lead to serious injury or death if you misuse the controller.

 **CAUTION:** This symbol denotes what could lead to personal injury or damage to your property if you misuse the controller.

- After reading this manual, be sure to forward it, together with the operation manual accompanying the indoor unit, to the user. Together with the operation manual for the indoor unit, this manual should be kept in a place where it can be referred to at anytime by the user. When the user changes, be sure to forward the manual to the final user.

### WARNING

- **Check the installation conditions.**
  - In order to prevent the controller falling down, make sure that it is installed in a place strong enough to withstand its weight.
- **Do not dispose of the controller by yourself.**
  - Consult your dealer in case of disposal.
- **Stop operation when an abnormality occurs.**
  - Continuing to operate under abnormal conditions can result in breakdown, electric shock or fire. When an abnormality occurs (burning smell etc.), stop operations, turn off the power switch and consult your dealer.
- **Never modify or repair the controller by yourself.**
  - Any deficiency caused by your modification or repair may result in an electric shock or fire. Consult your dealer about repairs.
- **Stop operation if the operation lamp on the controller's receiver blinks or if an abnormality occurs.**
  - Leaving the controller in these conditions can lead to fire or breakdown. Report such conditions to your dealer.
- **Never allow the alkaline batteries to short-circuit. Never disassemble, heat or place them in fire.**
  - Doing so can cause the strong alkaline liquid to leak and possibly enter your eyes or cause the batteries to explode or heat up, resulting in personal injuries, burning or mechanical breakdowns. If strong alkaline liquid comes in contact with your skin or clothes, wash it off with clean water. If it gets in to your eyes, wash them with clean water and consult a doctor immediately.

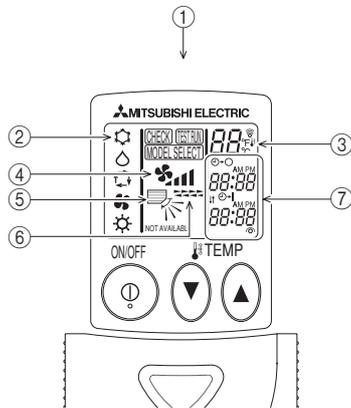
 CAUTION

- **Do not drop the controller.**
  - Doing so may cause the case to crack and may disable control.
- **Do not place any dangerous substances near the controller.**
  - Do not install in any place exposed to leakage of flammable gas. Flammable gases accumulated around the controller may cause fire or an explosion.
- **Do not wash with water.**
  - Doing so may cause an electric shock or breakdown.
- **Do not touch any control button with wet hands.**
  - Doing so may cause an electric shock or breakdown.
- **Do not disassemble the controller.**
  - Contact with internal circuitry may cause fire or breakdown.
- **Do not use in special environments.**
  - Using in places exposed to oil (including machine oil), steam or sulfur gas can reduce the performance or can cause damage to the components.
- **Do not spray insecticide or other flammable sprays.**
  - Do not place flammable sprays near the controller or spray directly at the controller. Doing so may result in fire or explosion.
- **Do not wipe the controller with benzine, thinner or chemical cloths etc.**
  - Doing so may cause discoloration or breakdowns. If the controller becomes extremely dirty, dampen a cloth with water-diluted neutral detergent and wipe the controller with it, then wipe with a dry cloth.
- **Do not press any control button with a sharp object.**
  - Doing so may cause an electric shock or breakdown.
- **Keep the temperature within the specified range.**
  - Use the controller within the specified operating temperature range. Using in temperature outside that range can cause serious breakdowns.
  - For the specified operating temperature range, refer to the specifications given on the operation manual.
- **Do not use for other special purposes.**
  - The controller has been designed for use with the MITSUBISHI Electric Building Air Conditioning Control System only. Do not use for other purposes such as controlling other air conditioners. Doing so may result in breakdown.
- **Incorrect use of batteries can cause liquid leakage, explosion or heating and may result in breakdown or personal injury. Adhere to the following.**
  - (1) Do not recharge the batteries.
  - (2) Insert the batteries in the correct direction.
  - (3) Do not mix a new battery with an old battery or batteries of different types.
  - (4) Remove the batteries immediately when they have run out.

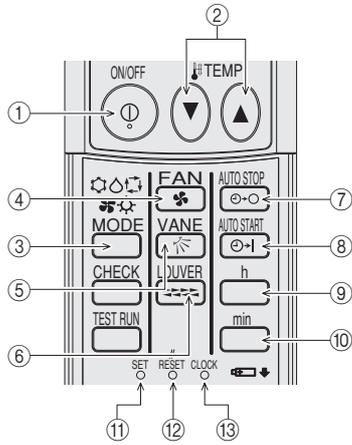
## 2. Name of Component

### 2.1. Wireless remote controller

\* The following example is for explanatory purposes only and shows the operating section when all the LCD displays are lit. It differs from the actual display. The LCD will remain dark while the remote controller is not in operation.

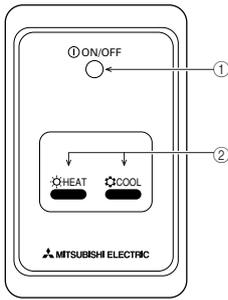


- ① Transmitter ..... Point this section to the Signal Receiving Unit
- ② Operation mode ..... P. 18
- ③ Pre-set temperature ..... P. 19
- ④ Fan ..... P. 20
- ⑤ Vane ..... P. 21
- ⑥ Louver ..... P. 22
- ⑦ Current time ..... P. 15, P. 23  
 Timer time ..... P. 24  
 ◯-◯ ◯-| display ..... P. 24



(When the Cover is Open.)

①	Power ON/OFF button .....	P. 17
②	Temperature adjusting button .....	P. 19
③	MODE button .....	P. 18
④	FAN button .....	P. 20
⑤	VANE button .....	P. 21
⑥	LOUVER button .....	P. 22
⑦	AUTO STOP button .....	P. 24
⑧	AUTO START button .....	P. 24
⑨	hour button .....	P. 23
⑩	minute button .....	P. 23
⑪	SET button .....	P. 15
⑫	RESET button .....	P. 15
⑬	CLOCK button .....	P. 15, P. 23



GB : Sold separately Type  
 D : Gesondert erhältlich Typ  
 F : De Type vendu séparément  
 E : Tipo vendido por separado  
 I : Tipo venduto separatamente  
 NL : Apart verkocht Type

## 2.2. Signal receiving unit

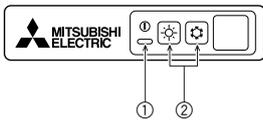
① **ON/OFF lamp** (lit when unit is operating; unlit when unit is not operating)

### ② **Emergency operation**

In cases where the remote control unit does not operate properly, use either the  COOL or  HEAT button on the wireless remote control signal receiver to toggle the unit on or off. On cooler only units, pushing the  HEAT button toggles the fan on and off.

Pressing the  COOL or  HEAT button selects the following settings.

Operation mode	COOL	HEAT
Preset temperature	24 °C/75 °F	24 °C/75 °F
Fan speed	High	High
Air Direction	Horizontal	Down



GB : Indoor unit Type  
 D : Innenanlagentyp  
 F : De Type appareil intérieur  
 E : Tipo unidad interior  
 I : Tipo unità interna  
 NL : Type van binnenapparaat

### 3. Before Operation

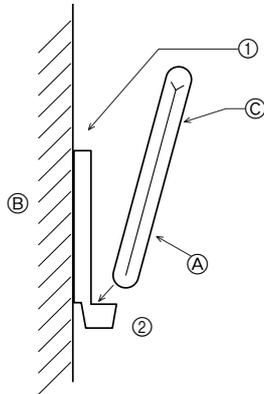
#### 3.1. Installing the remote controller

##### 1) Installation area

- Area in which the remote controller is not exposed to direct sunshine.
- Area in which there is no nearby heating source.
- Area in which the remote controller is not exposed to cold (or hot) winds.
- Area in which the remote controller can be operated easily.
- Area in which the remote controller is beyond the reach of children.

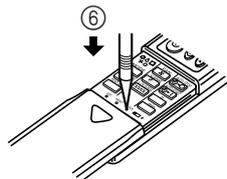
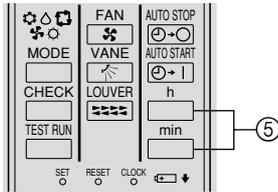
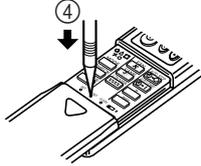
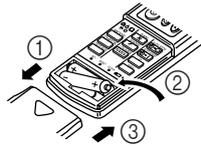
##### 2) Installation method

- ① Attach the remote controller holder to the desired location using two tapping screws ②.
  - ② Insert the remote controller into the holder.
    - Ⓐ Remote controller
    - Ⓑ Wall
    - Ⓒ Display panel
- The signal can travel up to approximately 5 m/16.5 feet (in a straight line) within 45 degrees to both right and left of the center line of the unit.



##### Note:

The remote control signal may not be received in a room which has a fluorescent lamp equipped with cycle-ignition stabilizer using high-voltage pulse or intermittent oscillation.



### 3.2. Replacing the batteries and how to set the current time

If no signal is transmitted and the indoor unit's lamp does not light up even if the remote controller is operated, the batteries may have run out, so replace them with new ones as described below.

- ① Remove the front lid.
- ② Replace the batteries with alkali batteries (size AAA). Make sure that the batteries are installed in the correct direction. (Insert the minus pole of the batteries first.)
- ③ Reattach the front lid.
- ④ Press the RESET button using a pointed but not sharp object.
- ⑤ Press the  and  button to set the current time.
- ⑥ Press the CLOCK button using a thin stick and close the front lid.

If you are not going to use the unit for a long period of time, remove the batteries to prevent damage which may occur due to leakage of electrolyte.

### 3.3. Setting the display

It is necessary to set the display before using this remote control unit.

- The remote control unit will not operate properly unless the display settings are correct.
- Customers should not perform the setting themselves, but rather should request that the settings be made during installation by qualified personnel.
- Refer to the installation manual for more information on the setting method.

## 4. Operation

### 4.1. Switching the unit on/off

- The power supply should not be turned off while the air conditioner is in use. This can cause the unit to break down.

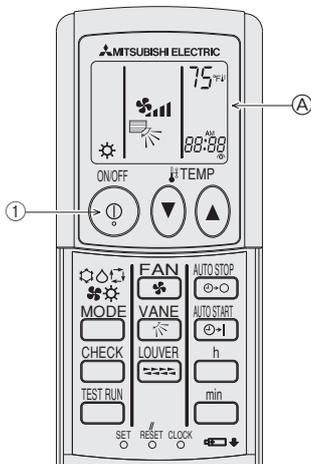
① Press the ON/OFF  button.

Ⓐ The ON indicator will be displayed.

- Do not operate multiple signal receiving units at the same time.

The transfer symbol  is displayed every time the ON/OFF signal is transferred. The signal receiving unit makes a sound when it receives a signal. When no sound is made, transfer the signal again.

- Even if you press the ON/OFF  button immediately after shutting down the operation in progress, the air conditioner will not start for about three minutes. This is to prevent the internal components from being damaged.
- If the operation stops due to a power failure, the unit will not automatically restart until the power has been restored. Press the ON/OFF  button to restart.



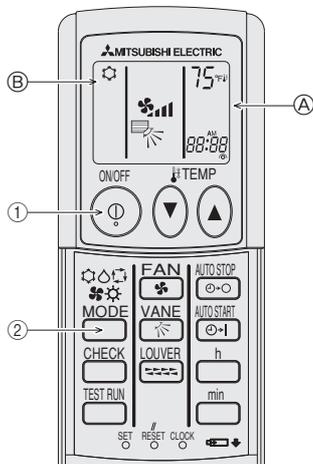
## 4.2. Mode select

- ① If the unit is off, press the ON/OFF  button to turn it on.
  - Ⓐ The ON indicator will be displayed.
- ② Press the operation mode (    ) button and select the operation mode.

- Ⓑ
-  Cooling mode
  -  Drying mode
  -  Automatic (cooling/heating) mode
  -  Fan mode
  -  Heating mode

**Note:**

The heating display and the automatic display does not appear in models that operate exclusively as cooling only air-conditioner.



### 4.3. Selecting a temperature

► To lower the room temperature:

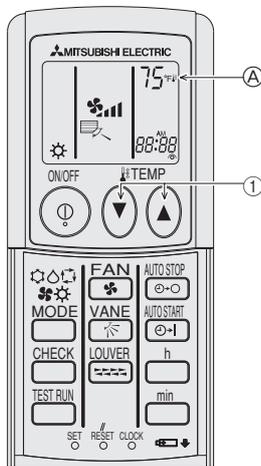
- ① Press  button to set the desired temperature.
- Ⓐ The selected temperature is displayed.
- Each time you press the button, the temperature lowers by 1 °C/2 °F or 1 °F.

► To raise the room temperature:

- ① Press  button to set the desired temperature.
- Ⓐ The selected temperature is displayed.
- Each time you press the button, the temperature raises by 1 °C/2 °F or 1 °F.
- Available temperature ranges are as follows:

	(In case of standard units)	(In case of medium temperature units)
Cooling & Drying:	19 - 30 °C/65 - 87 °F	14 - 30 °C/57 - 87 °F
Heating:	17 - 28 °C/61 - 83 °F	17 - 28 °C /63 - 83 °F
Automatic:	19 - 28 °C/65 - 87 °F	17 - 28 °C/63 - 83 °F
Circulation:	— (Not available)	— (Not available)

The temperature ranges vary depending on which unit is selected by the remote controller.



#### 4.4. Selecting a fan speed (FAN)

- ① Press  button to select a desired fan speed.
- Each time you press the button, available options change with the display  on the remote controller, as shown below.

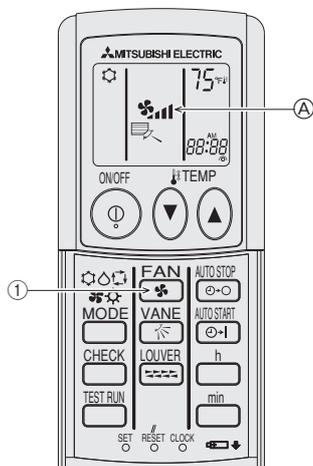
Fan speed	Remote controller display				
	(Auto)	Low	Middle 2	Middle 1	High
4-stage					
3-stage			 (Middle)		
2-stage					

The wind speeds that can be selected depend on the model.

Note that some units do not provide an "Auto" setting.

The display and the fan speed of the unit will differ in the following situations:

- When the unit is in STAND BY mode or in DEFROST mode.
- Just after the heating mode (while waiting to change to another mode).
- When the temperature of the room is higher than the temperature setting of the unit operating in the heating mode.
- In the dry operation, the indoor fan automatically turns to low-speed operation. Switching of fan speed is impossible.



#### 4.5. Adjusting vertical airflow direction (VANE)

The vertical air vane helps select the vertical direction of the airflow.

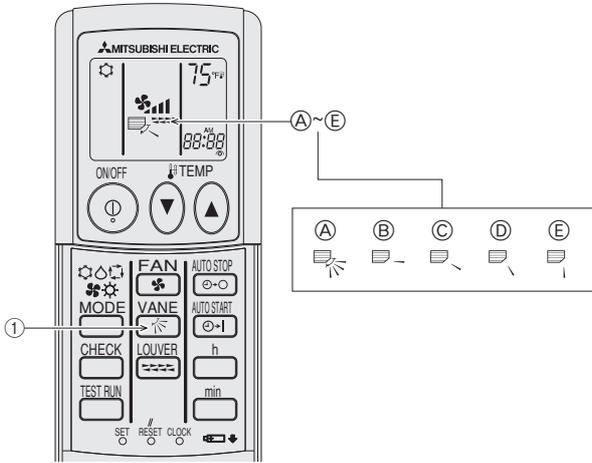
① Press **VANE** button to select the vertical airflow direction.

- Each time you press the button, the option changes are displayed on the remote controller, as shown below.

Ⓐ (swing) → Ⓑ → Ⓒ → Ⓓ → Ⓔ → Ⓐ

- If the room temperature is higher than the temperature set on the remote controller while the unit is defrosting or preparing for heating, the vertical air vane will move to the horizontal airflow position (Ⓑ).
- In either cooling or dry mode, if you select Ⓒ, Ⓓ or Ⓔ when the fan speed is low, middle 2. After one hour, the air conditioner will switch automatically to horizontal air mode (Ⓑ).
- When the heating thermostat is OFF, the louver automatically turns horizontally during defrosting or preparation for heating.

\* There may not be an airflow function, depending on the model.

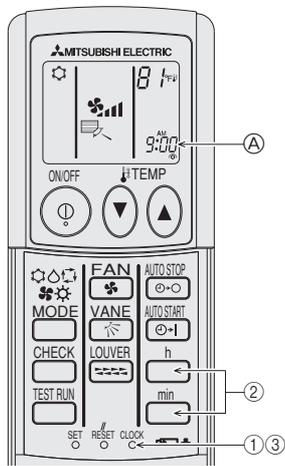


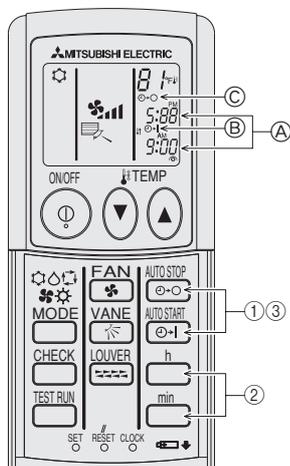


### 4.7. Using the timer

#### 1) Set the current time

- ① Press the CLOCK button using a thin stick and blink the time ①.
- ② Press the <sup>h</sup> and <sup>min</sup> button to set the current time.
- ③ Press the CLOCK button using a thin stick.





**2) Set the time to start the unit as follows**

- ① Press the button.
  - Time can be set while the following symbol is blinking.
  - On time: START is blinking.
  - The start times is displayed at **A**.
- ② Use the and buttons to set the desired time.
- ③ To cancel the ON timer, press the button.

**3) Set the time to stop the unit as follows**

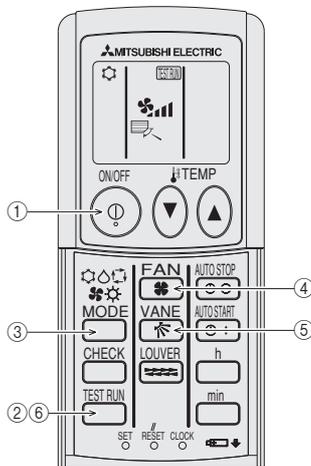
- ① Press the button.
  - Time can be set while the following symbol is blinking.
  - Off time: STOP is blinking.
  - The stop times is displayed at **A**.
- ② Use the and buttons to set the desired time.
- ③ To cancel the OFF timer, press the button.

**4) Changing the set times**

Press the or to cancel the timer and repeat from 2) or 3).

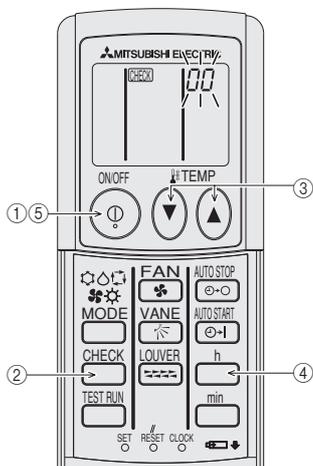
## 5. Test Run

- ① Stop the air conditioner using the wireless remote controller ON/OFF  button.
- ② Press the  button twice continuously.
  -  and current operation mode are displayed.
  - Start this operation from the status of remote controller display turned off.
- ③ Press the  button.
  - Operation mode switches between cooling mode and heating mode.  
Cooling mode ..... Check outlet of cool airflow.  
Heating mode ..... Check outlet of warm airflow. (This action takes some time.)
- ④ Press the  button.
  - Check if the fan speed changes.
- ⑤ Press the  button.
  - Check if the automatic vane is working.
- ⑥ Press the ON/OFF  button or press the  button twice continuously.
  - Test run will be canceled.



## 6. Self Check

- ① Stop the air conditioner using the wireless remote controller ON/OFF (Ⓢ) button.
- ② Press the  button twice continuously.
  -  begins to light and address display, "00" begins to blink.
  - Start this operation from the status of remote controller display turned off.
- ③ Press the TEMP (Ⓣ), (Ⓡ) buttons.
  - Set the address of the indoor unit that is to be self-diagnosed.
- ④ While pointing the remote controller toward the signal receiver, press the  button.
  - The operation cannot be performed when the unit is in trouble.
  - The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.
- ⑤ While pointing the remote controller toward the unit's receiver, press the ON/OFF (Ⓢ) button.
  - Self-check mode is canceled.



\* Check code table

Check code	Operation lamp	Buzzer sound
0000 ~ 0999	1 Sec. Flash × 8	Single beep × 8
1000 ~ 1999	1 Sec. Flash × 1	Single beep × 1
2000 ~ 2999	1 Sec. Flash × 2	Single beep × 2
3000 ~ 3999	1 Sec. Flash × 3	Single beep × 3
4000 ~ 4999	1 Sec. Flash × 4	Single beep × 4
5000 ~ 5999	1 Sec. Flash × 5	Single beep × 5
6000 ~ 6999	1 Sec. Flash × 6	Single beep × 6
7000 ~ 7999	1 Sec. Flash × 7	Single beep × 7
8000 over	1 Sec. Flash × 9	Single beep × 9

\* Refer to service handbook of outdoor unit for the detail.

## 7. Centrally Controlled

1. **In cases where local operation by wireless remote controller is prohibited.**
  - When remote operation is prohibited due to centralized control, the prohibited operations cannot be performed using a wireless remote controller.
    - There are 3 types of remote operation that are prohibited, starting and stopping, operating mode and temperature setting.
    - Operations other than the prohibited items are enabled.
2. **In cases where wireless remote controller are operated during Centrally Controlled.**
  - Signal Receiving Unit will respond as follows.
    - Unit will beep twice.
    - ON/OFF lamp will flash three times at 0.25 second intervals if the unit is ON or two times if it is OFF.

**Note:**

**In this case the operation of the air-conditioner and the display of the remote control may differ.**

## 8. Troubleshooting

**<When the operation lamp of the Signal Receiving Unit is blinking>**  
This means that an abnormality has occurred with the air conditioner. In this case, turn the power off and consult your dealer. Do not try to repair by yourself.

This product is designed and intended for use in a residential, commercial or light-industrial environment.  
The product at hand is based on the following EU regulations:

- Electromagnetic Compatibility Directive 89/336/EEC

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