

CITY MULTI Control System  
and Mitsubishi Mr. SLIM Air Conditioners



# MA Remote Controller

PAR-40MAA

## Instruction Book





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

Make sure that all the included manuals 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.

|   |  |
|---|--|
|  <b>WARNING</b> | Indicates a risk of death or serious injury.             |
|  <b>CAUTION</b> | Indicates a risk of serious injury or structural damage. |

- 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.

## General precautions

### **WARNING**

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 injury or electric shock, before spraying a chemical around the controller, stop the operation and cover the controller.

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

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.

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.

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.

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.

### **CAUTION**

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 environmental pollution, consult an authorized agency for proper disposal of remote 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 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 reduce the risk of injury, wear protective gear when working on the controller.

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

## Precautions for moving or repairing the controller

### **WARNING**

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.

### **CAUTION**

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.

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 mild detergent that is diluted with an appropriate amount of water, and wipe down with a wet cloth followed by a dry cloth. Do not use the detergent straight.

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 damage to the controller, provide protection against static electricity.

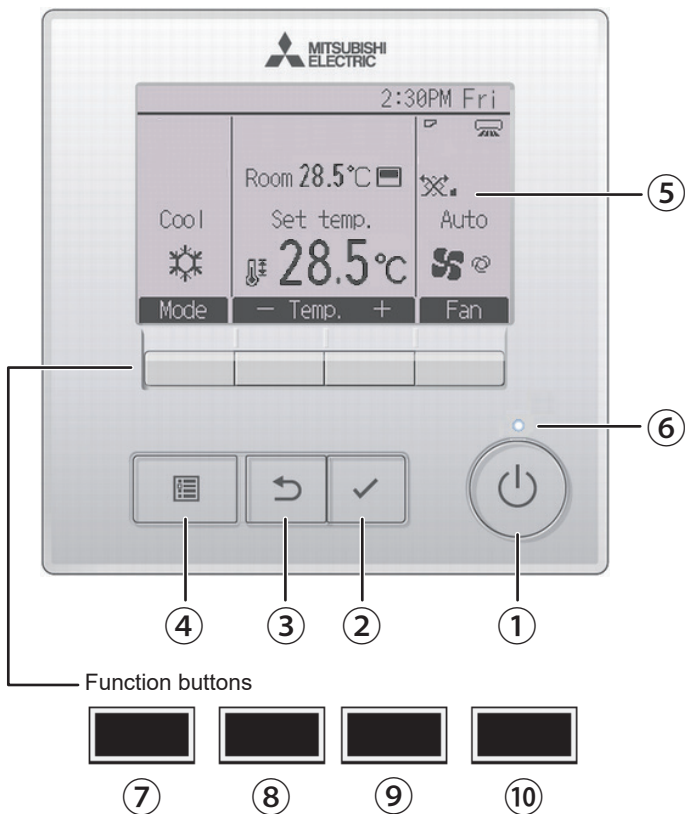
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

# Controller components

## Controller interface



### ① ON/OFF button

Press to turn ON/OFF the indoor unit.

### ② SELECT button

Press to save the setting.

### ③ RETURN button

Press to return to the previous screen.

### ④ MENU button

Press to bring up the Main menu.

### 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.

When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the ON/OFF button)

### 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.

### ⑦ Function button F1

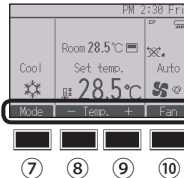
Main display: Press to change the operation mode.

Menu screen: The button function varies with the screen.

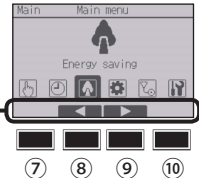
The functions of the function buttons change depending on the screen. Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen.

When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.

### Main display



### Main menu



### Menu screen



Function guide

### ⑧ Function button F2

Main display: Press to decrease temperature.

Main menu: Press to move the cursor left.

Menu screen: The button function varies with the screen.

### ⑨ Function button F3

Main display: Press to increase temperature.

Main menu: Press to move the cursor right.

Menu screen: The button function varies with the screen.

### ⑩ Function button F4

Main display: Press to change the fan speed.

Menu screen: The button function varies with the screen.

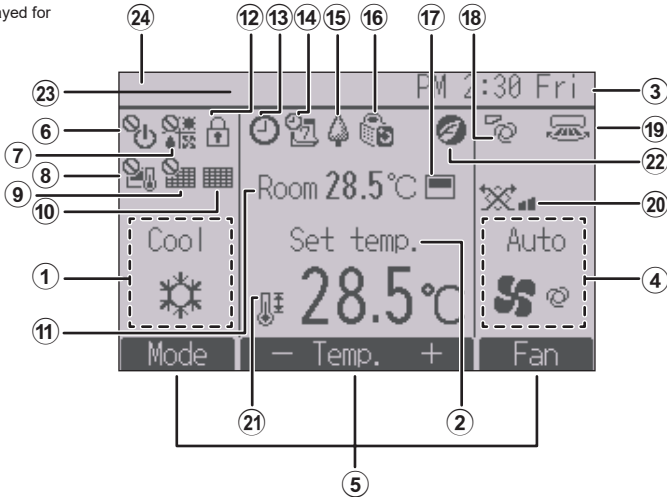
# Controller components

## Display

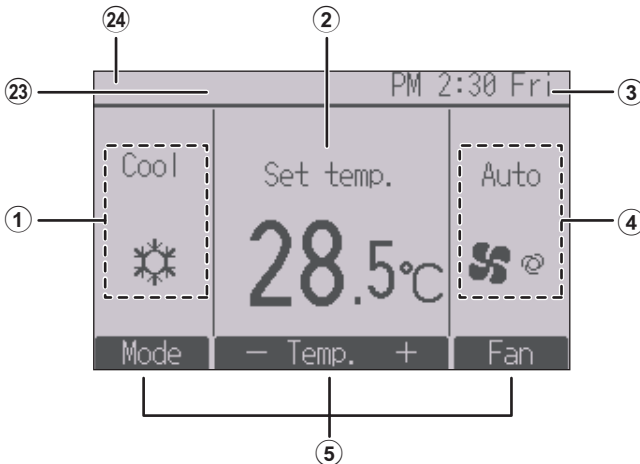
The main display can be displayed in two different modes: “Full” and “Basic.” The factory setting is “Full.” To switch to the “Basic” mode, change the setting on the Main display setting.

### Full mode

\* All icons are displayed for explanation.



### Basic mode



## ① Operation mode

## ② Preset temperature

## ③ Clock

See the Installation Manual.

## ④ Fan speed

## ⑤ Button function guide

Functions of the corresponding buttons appear here.



Appears when the ON/OFF operation is centrally controlled.



Appears when the operation mode is centrally controlled.



Appears when the preset temperature is centrally controlled.



Appears when the filter reset function is centrally controlled.



Indicates when filter needs maintenance.

## ⑪ Room temperature

See the Installation Manual.



Appears when the buttons are locked.



Appears when the On/Off timer, Night setback, or Auto-off timer function is enabled.



appears when the timer is disabled by the centralized control system.



Appears when the Weekly timer is enabled.



Appears while the units are operated in the energy-save mode. (Will not appear on some models of indoor units)



Appears while the outdoor units are operated in the silent mode.



Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature (⑪).



appears when the thermistor on the indoor unit is activated to monitor the room temperature.



Indicates the vane setting.



Indicates the louver setting.



Indicates the ventilation setting.



Appears when the preset temperature range is restricted.



Appears when an energy-saving operation is performed using a "3D i-See sensor" function.

## ⑳ Centrally controlled

Appears for a certain period of time when a centrally-controlled item is operated.

## ㉑ Error display

An error code appears during the error.

\* When an error code is displayed on the main display, an error is occurring but the indoor unit can keep its operation. Check the error code, and consult your dealer.

## Icon explanations

### Controller operation

Timer



The table below summarizes the square icons used in this manual.



The administrator or maintenance user password must be entered on the password input screen to change settings. There is no settings that can skip this process.



F1 F2 F3 F4

- F1** : Press to move the cursor left.
- F2** : Press to move the cursor right.
- F3** : Press to decrease the value by 1.
- F4** : Press to increase the value by 1.

\* Changes cannot be made unless the correct password is entered.



Indicates settings that can be made only from the main remote controller.



Indicates settings that can be changed only while the units are in operation.



Indicates settings that can be changed only while the units are not in operation.



Indicates settings that can be changed only while the units are operated in the Cool, Heat, or Auto mode.



Indicates functions that are not available when the buttons are locked or the system is centrally controlled.



# Basic operations

## Power ON/OFF



Button operation

### ON



Press the **ON/OFF** button.

The ON/OFF lamp will light up in green, and the operation will start.

When “LED lighting” is set to “No,” the ON/OFF lamp will not light up.

### OFF



Press the **ON/OFF** button again.

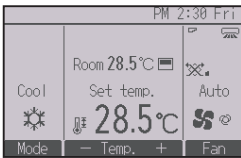
The ON/OFF lamp will come off, and the operation will stop.

# Operation mode, temperature, and fan speed settings



## Button operation

# Operation mode



Each pressing of the **F1** button cycles through the following operation modes.

Select the desired operation mode.



Cool



Dry



Fan



Auto



Heat

- Operation modes that are not available to the connected indoor unit models will not appear on the display.

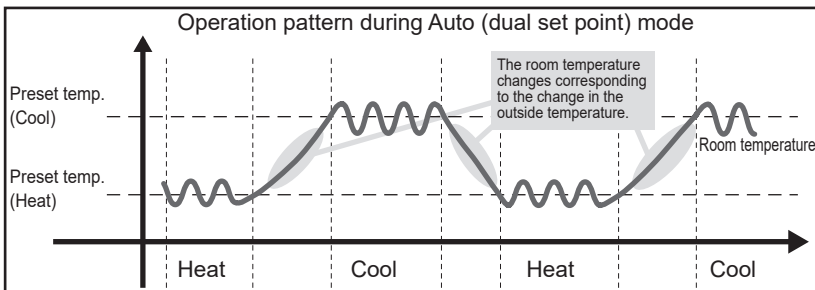
### What the blinking mode icon means

The mode icon will blink when other indoor units in the same refrigerant system (connected to the same outdoor unit) are already operated in a different mode. In this case, the rest of the unit in the same group can only be operated in the same mode.

## <Auto (dual set point) mode>

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

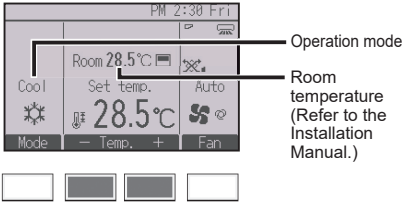
The graph below shows the operation pattern of indoor unit operated in the Auto (dual set point) mode.



# Basic operations

## Preset temperature

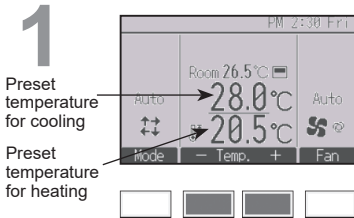
<Cool, Dry, Heat, and Auto (single set point)>



Press the **F2** button to decrease the preset temperature, and press the **F3** button to increase.

- Preset temperature range cannot be set for Fan/Ventilation operation.
- Preset temperature will be displayed either in Centigrade 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.

<Auto (dual set point) mode>



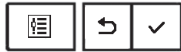
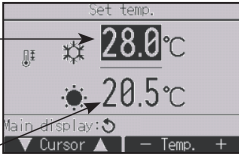
The current preset temperatures will appear.

Press the **F2** or **F3** button to display the Settings screen.

# 2

Preset temperature for cooling

Preset temperature for heating



Press the **[F1]** or **[F2]** button to move the cursor to the desired temperature setting (cooling or heating).

Press the **[F3]** button to decrease the selected temperature, and press the **[F4]** button to increase.

- Refer to the table below for the settable temperature range for different operation modes.
- The preset temperature settings for cooling and heating in the Auto (dual set point) mode are also used by the Cool/Dry and Heat modes.
- The preset temperatures for cooling and heating in the Auto (dual set point) mode must meet the conditions below:

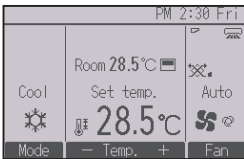
- Preset cooling temperature is higher than preset heating temperature.
- The minimum temperature difference requirement between cooling and heating preset temperatures (varies with the models of indoor units connected) is met.
- If preset temperatures are set in a way that does not meet the minimum temperature difference requirement, both preset temperatures will automatically be changed within the allowable setting ranges.

### Settable preset temperature range

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

**The settable temperature range varies with the model of indoor units.**

## Fan speed



Each pressing of the **[F4]** button cycles through the following fan speeds.



- The available fan speeds depend on the models of connected indoor units.

# Navigating through the menu

## Main menu list

| Main menu     | Setting items                  |                   | Setting details   |
|---------------|--------------------------------|-------------------|---|
| Operation     | Vane•Louver•Vent.<br>(Lossnay) |                   | <p><b>Use to set the vane angle.</b></p> <ul style="list-style-type: none"> <li>Select a desired vane setting from five different settings.</li> </ul> <p><b>Use to turn ON/OFF the louver.</b></p> <ul style="list-style-type: none"> <li>Select a desired setting from “ON” and “OFF.”</li> </ul> <p><b>Use to set the amount of ventilation.</b></p> <ul style="list-style-type: none"> <li>Select a desired setting from “Off,” “Low,” and “High.”</li> </ul> |
|               | High power                     |                   | <p><b>Use to reach the comfortable room temperature quickly.</b></p> <ul style="list-style-type: none"> <li>Units can be operated in the High-power mode for up to 30 minutes.</li> </ul>   |
|               | Comfort                        | Manual vane angle | <p><b>Use to fix each vane angle.</b></p>   |
| Timer         | Timer                          | On/Off timer      | <p><b>Use to set the operation On/Off times.</b></p> <ul style="list-style-type: none"> <li>Time can be set in 5-minute increments.</li> <li>* Clock setting is required.</li> </ul>  |
|               |                                | Auto-Off timer    | <p><b>Use to set the Auto-Off time.</b></p> <ul style="list-style-type: none"> <li>Time can be set to a value from 30 to 240 in 10-minute increments.</li> </ul>  |
|               | Weekly timer                   |                   | <p><b>Use to set the weekly operation On/Off times.</b></p> <ul style="list-style-type: none"> <li>Up to eight operation patterns can be set for each day.</li> <li>Two types of weekly schedules can be set.</li> <li>* Clock setting is required.</li> <li>* Not valid when the On/Off timer is enabled.</li> <li>* 1°C increments</li> </ul>   |
|               | OU silent mode                 |                   | <p><b>Use to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the Start/Stop times for each day of the week.</b></p> <ul style="list-style-type: none"> <li>Select the desired silent level from “Normal,” “Middle,” and “Quiet.”</li> <li>* Clock setting is required.</li> </ul>   |
|               | Night setback                  |                   | <p><b>Use to make Night setback settings.</b></p> <ul style="list-style-type: none"> <li>Select “Yes” to enable the setting, and “No” to disable the setting. The temperature range and the start/stop times can be set.</li> <li>* Clock setting is required.</li> <li>* 1°C increments</li> </ul>   |
| Energy saving | Restriction                    | Temp. range       | <p><b>Use to restrict the preset temperature range.</b></p> <ul style="list-style-type: none"> <li>Different temperature ranges can be set for different operation modes.</li> <li>* 1°C increments</li> </ul>  |
|               |                                | Operation locked  | <p><b>Use to lock selected functions.</b></p> <ul style="list-style-type: none"> <li>The locked functions cannot be operated.</li> </ul>  |
|               | Energy saving                  | Auto return       | <p><b>Use to get the units to operate at the preset temperature after performing energy-save operation for a specified time period.</b></p> <ul style="list-style-type: none"> <li>Time can be set to a value from 30 and 120 in 10-minute increments.</li> <li>* This function will not be valid when the preset temperature ranges are restricted.</li> <li>* 1°C increments</li> </ul>   |

| Main menu       | Setting items                 |  | Setting details  |
|-----------------|-------------------------------|--|--|
| Energy saving   | Energy saving                 | Schedule   | <p><b>Set the start/stop times to operate the units in the energy-save mode for each day of the week, and set the energy-saving rate.</b></p> <ul style="list-style-type: none"> <li>• Up to four energy-save operation patterns can be set for each day.</li> <li>• Time can be set in 5-minute increments.</li> <li>• Energy-saving rate can be set to a value from 0% and 50 to 90% in 10% increments.</li> </ul> <p>* Clock setting is required.</p> |
| Initial setting | Basic setting                 | Clock  | <b>Use to set the current time.</b>  |
|                 |                               | Daylight saving time   | <b>Sets the daylight saving time.</b>  |
|                 | Display setting               | Main display   | <p><b>Use to switch between "Full" and "Basic" modes for the Status display and the Main display.</b></p> <ul style="list-style-type: none"> <li>• The default setting is "Full."</li> </ul>   |
|                 |                               | Black and white inversion setting  | <b>Use to invert the colors of the display, turning white background to black and black characters to white.</b>   |
|                 |                               | Contrast-Brightness  | <b>Use to adjust screen contrast and brightness.</b>   |
|                 |                               | Language selection   | <b>Use to select the desired language.</b>   |
| Service         | Initialize remote controller  | <b>Use to initialize the remote controller to the factory shipment status.</b>   |  |
|                 | Remote controller information | <b>Use to display the remote controller model name, software version, and serial number.</b>   |  |
| Maintenance     | Error information             | <p><b>Use to check error information when an error occurs.</b></p> <ul style="list-style-type: none"> <li>• Error code, error source, refrigerant address, unit model, manufacturing number, contact information (dealer's phone number) can be displayed.</li> </ul> <p>* The unit model, manufacturing number, and contact information need to be registered in advance to be displayed.</p> |  |
|                 | Filter information            | <p><b>Use to check the filter status.</b></p> <ul style="list-style-type: none"> <li>• The filter sign can be reset.</li> </ul>  |  |

## Restrictions for the sub remote controller



The following settings cannot be made from the sub remote controller. Make these settings from the main remote controller. "Main" is displayed in the title of the Main menu on the main remote controller.

- **Timer**  
(On/Off timer, Auto-Off timer, Weekly timer, Night setback, OU silent mode)
- **Energy saving**  
(Auto return, Schedule)
- **Maintenance**  
(Manual vane angle)

# Navigating through the menu

## Navigating through the Main menu

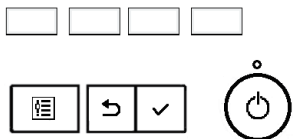
Button operation

### Accessing the Main menu

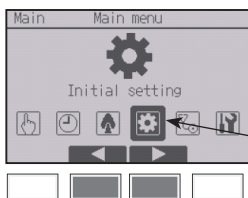


Press the **[Menu]** button on the Main display.

The Main menu will appear.

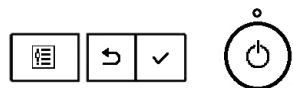


### Item selection



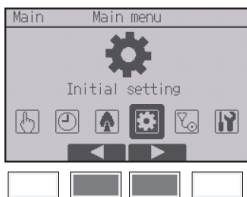
Press **[F2]** to move the cursor left.

Press **[F3]** to move the cursor right.



## Button operation

1



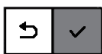
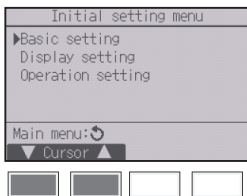
Select “Initial setting” from the Main menu and press the **SELECT** button.

**Clock setting is required before making the following settings.**

- On/Off timer
- OU silent mode
- Night setback
- Weekly timer
- Energy saving

If a given system has no system controllers, the clock time will not automatically be corrected. In this case, periodically correct the clock time.

2



Move the cursor to “Basic setting” with the **F1** or **F2** button, and press the **SELECT** button.

3



Select “Clock” with the **F1** or **F2** button, and press the **SELECT** button.



# Function settings

4



Move the cursor to "Clock" with the **[F1]** or **[F2]** button, and press the **[SELECT]** button.



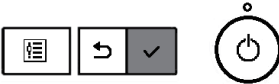
5



Move the cursor to the desired item with the **[F1]** or **[F2]** button out of year, month, date, hour, or minute.

Increase or decrease the value for the selected item with the **[F3]** or **[F4]** button, and press the **[SELECT]** button.

A confirmation screen will appear.



## Navigating through the screens

- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button

## Function description

The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.

- If a given system has a system controller, disable this setting to keep the correct time.
- At the beginning and the end of daylight saving time, the timer may go into action twice or not at all.
- This function will not work unless the clock has been set.

## Button operation

1



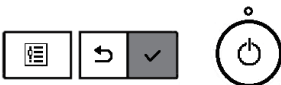
Select “Clock” from the Basic setting menu, and press the **[SELECT]** button.



2

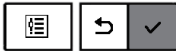
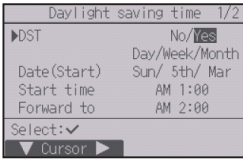


Move the cursor to “Daylight saving time” with the **[F1]** or **[F2]** button, and press the **[SELECT]** button.



# Function settings

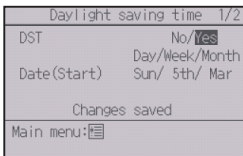
## 3



Move the cursor to the following items with the **[F1]** button to make the settings.

- **DST**  
Select “No” (disable) or “Yes” (enable) with the **[F2]** button. The default setting is “No.”
  - **Date(Start)\*1**  
Set the day of the week, week number, and month with the **[F3]** or **[F4]** button. The default setting is “Sun/5th/Mar.”
  - **Start time**  
Set the start time for daylight saving time with the **[F3]** or **[F4]** button.
  - **Forward to**  
Set the time when the clock is to be set forward to at the start time above with the **[F3]** or **[F4]** button.
  - **Date(End)\*1 (2nd page)**  
Set the day of the week, week number, and month with the **[F3]** or **[F4]** button. The default setting is “Sun/5th/Oct.”
  - **End time (2nd page)**  
Set the end time for daylight saving time with the **[F3]** or **[F4]** button.
  - **Backward to (2nd page)**  
Set the time when the clock is to be set backward to at the end time above with the **[F3]** or **[F4]** button.
- \*1 If “5th” is selected for the week number and the 5th week does not exist in the selected month of the year, the setting is considered to be “4th.”

Press the **[SELECT]** button to save the settings. A confirmation screen will appear.



### Navigating through the screens

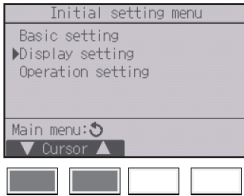
- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button

## Function description

The desired language can be set. The language options are English, French, German, Spanish, Italian, Portuguese, Swedish, Russian, Greek, Turkish, Dutch, Czech, Hungarian, and Polish.

## Button operation

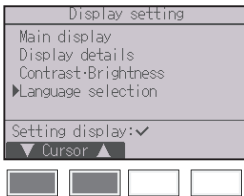
1



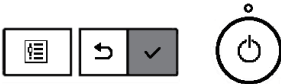
Select "Display setting" from the Initial setting menu, and press the **[SELECT]** button.



2



Move the cursor to "Language selection" with the **[F1]** or **[F2]** button, and press the **[SELECT]** button.



# Function settings

3



Move the cursor to the language you desire with the **[F1]** through **[F4]** buttons, and press the **[SELECT]** button to save the setting.

When the power is on for the first time, the Language selection screen will be displayed. Select a desired language. The system will not start-up without language selection.

A screen will appear that indicates the setting has been saved.

## Navigating through the screens

- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button

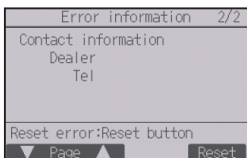
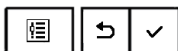
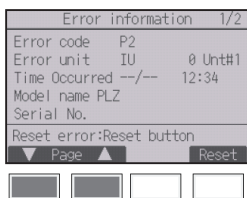
# Troubleshooting

## Error information

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

### Button operation

1



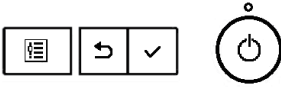
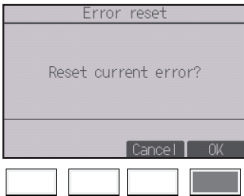
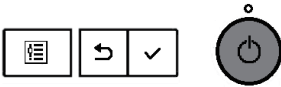
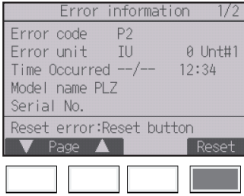
Error code, error unit, refrigerant address, unit model name, date and time on which an error occurred, and serial number will appear.

The model name and serial number will appear only if the information have been registered.

Press the **F1** or **F2** button to go to the next page.

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

2



Press the **[F4]** button or the **[ON/OFF]** button to reset the error that is occurring.

**Errors cannot be reset while the ON/OFF operation is prohibited.**

Select "OK" with the **[F4]** button.

A confirmation screen will appear.

**Navigating through the screens**

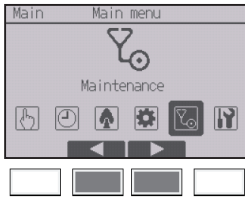
- To go back to the Main menu ..... **[MENU]** button

# Troubleshooting

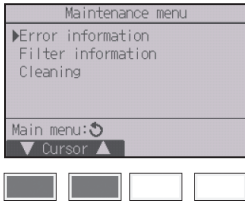
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## Checking the error information



While no errors are occurring, page 2/2 of the error information can be viewed from the menu operation. Select “Maintenance” menu from the Main menu, and press the SELECT button.



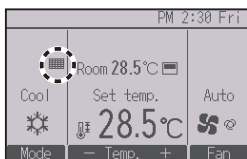
To display the error information screen, select “Error information” from the Maintenance menu. Errors cannot be reset.






# Maintenance

## Filter information



 will appear on the Main display in the Full mode when it is time to clean the filters.

**Wash, clean, or replace the filters when this sign appears.**

**Refer to the indoor unit Instructions Manual for details.**

### Button operation

1



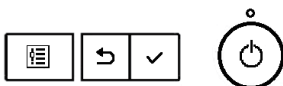
Select "Filter information" from the Maintenance menu, and press the **[SELECT]** button.



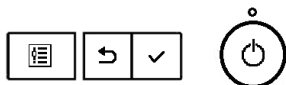
2



Press the **[F4]** button to reset filter sign.  
Refer to the indoor unit Instructions Manual for how to clean the filter.



3

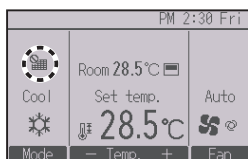



Select "OK" with the **[F4]** button.

A confirmation screen will appear.

#### Navigating through the screens

- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button




When the  is displayed on the Main display in the Full mode, the system is centrally controlled and the filter sign cannot be reset.

If two or more indoor units are connected, filter cleaning timing for each unit may be different, depending on the filter type.

The icon  will appear when the filter on the main unit is due for cleaning.

When the filter sign is reset, the cumulative operation time of all units will be reset.

The icon  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.

The cumulative time at which filter needs cleaning depends on the model.

This product is designed and intended for use in the residential, commercial, and light-industrial environment.

The product at hand is based on the following EU regulations:

- Electromagnetic Compatibility Directive 2014/30/EU

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