



CITY MULTI Control System

## **Smart ME Controller PAR-U02MEDA**

Instruction Book



English

Deutsch

Français

Español

Italiano

Nederlands

Português

Ελληνικά

Русский

Türkçe

Český

Slovenský

Magyar

Polski

Slovenščina

Svenska

Hrvatski

Български

Română

Dansk

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

Make sure that the CD-ROM, Installation Manual, and Simple Operation 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.

# **Product features**

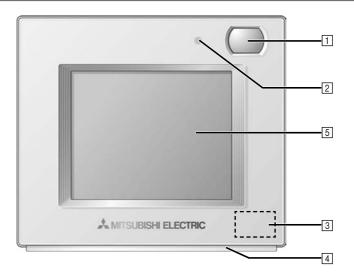
Smart ME Controller is a remote controller designed to control Mitsubishi Electric's air conditioning units and also allows for the control of other manufacturer's products connected via Mitsubishi Electric's AHC.

It can control up to sixteen indoor units and one AHC.

Smart ME Controller features such basic functions as operations and monitoring of air conditioning units and schedule-control functions and is equipped with four built-in sensors (temperature, humidity, occupancy, brightness), which enable an integrated control of the system, including the humidifiers and ventilation units connected to the system via AHC, to help create comfortable environment.

When the built-in occupancy sensor detects vacancy in a specific zone, the controller uses its internal function to reduce energy-consumption.

## Controller interface



## Occupancy Sensor

The occupancy sensor detects vacancy for energy-save control.

## 2 Brightness Sensor

The brightness sensor detects the brightness of the room for energy-save control.

## 3 Temperature & Humidity Sensor

The sensor detects the room temperature and the relative humidity.

## 4 LED Indicator

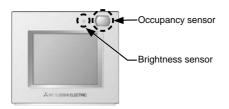
The LED indicator indicates the operation status in different colors.

The LED indicator lights up during normal operation, lights off when units are stopped, and blinks when an error occurs.

## 5 Touch panel & Backlit LCD

The touch panel shows the operation settings screen. When the backlight is off, touching the panel turns the backlight on, and it will stay lit for a predetermined period of time

## ■ Energy-save control with the use of the built-in occupancy sensor



- Energy-save control will be performed when the occupancy sensor detects vacancy.
- When the occupancy sensor detects no human movement for a certain period of time, this will be regarded as the vacancy.
- One of the following energy-save controls can be used at a time.

Energy-save control mode	Control when vacancy is detected
Non-use	-
ON/OFF	The unit will be turned off.
Set temperature offset	The set temperature will be offset.
Fan speed down	The fan speed will be set to "Low."
Thermo-off	The unit will go into the Thermo-off state.

• Energy-save control can be stopped according to the brightness level detected by the brightness sensor. (Example: While the occupants are sleeping at night)

## **LED** Indicator



- The LED indicator indicates the operation status by lighting and blinking with different colors and brightness (High/Low), or by turning off.
- Indicator colors: Blue, Light blue, Purple, Red, Pink, Orange, Yellow, Green, Lime, and White

Operation status	LED indicator
The unit is in operation.	Lights up in different colors according to the operation mode or the room temperature (three different levels). *1
The unit is stopped.	Turns off.
An error is occurring.	Blinks in the color it is illuminated in at the time.
Energy-save control is being performed.	Lights up in the predetermined color. *1
The occupancy sensor has sensed an occupant.	Inverts the brightness (High/Low) twice. *1
A button is touched on the Home screen.	Inverts the brightness (High/Low). *1

<sup>\*1</sup> The settings can be made on the LED Indicator setting screen.

### Default color setting

Color	Operation mode setting (default)	Room temperature
Blue	Cool (Auto_Cool)	0°C-21°C (32°F-69°F)
Light blue	Dry	Not used
Yellow	Fan	21.5°C-26°C (70°F-79°F)
White	Auto	Not used
Red	Heat (Auto_Heat)	26.5°C-40°C (80°F-104°F)
Green	Night setback	Not used
Lime	Energy-save control is in effect that has been performed when the occupancy sensor detected vacancy.	

<sup>\*</sup> Purple, pink, and orange are not used by default.

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# 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 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 touch panel 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.

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.

## **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 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 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.

## Relocation and repairs

## **↑** 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.

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.

Properly dispose of the packing materials. Plastic bags pose suffocation hazard to children.

To avoid damage to the controller, do not overtighten the screws.

## The CD-ROM that is supplied with Smart ME Controller



The CD-ROM can only be played on a CD-drive or a DVD-drive. Do not attempt to play the CD-ROM on an audio CD player as this may damage your ears and/ or speakers.

The CD-ROM that is supplied with the Smart ME Controller contains an Installation Manual and Instruction Book.

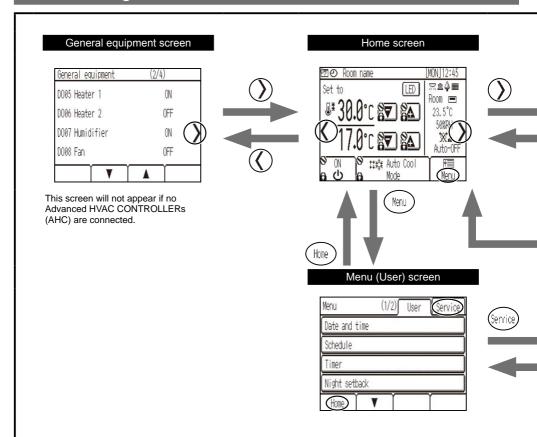
Each document is in PDF format.

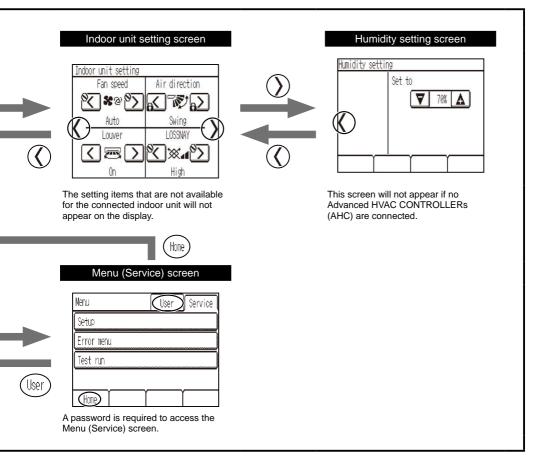
Viewing documents requires a computer with Adobe® Reader® or Adobe® Acrobat® installed.

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# Screen display

# Screen configuration



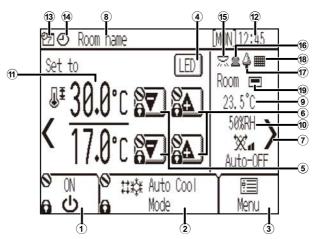


# Display

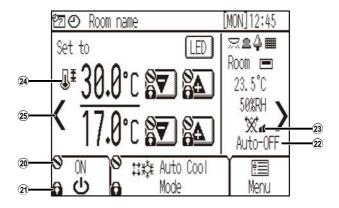
## Home screen

### - Basic -

\* All icons are displayed for explanation.



### Advanced



12

### 1 [ON/OFF] button

Touch to turn ON/OFF the indoor unit.

### 2 [Operation mode] button

Touch to change the operation mode.

### 3 [Menu] button

Touch to bring up the Menu screen.

### 4 LED Indicator ON/OFF button

Touch to turn ON/OFF the LED indicator.



Touch to decrease the set temperature.



Touch to increase the set temperature.



Touch to go to the Indoor unit setting screen.

### 8 Room name

Room name appears here.

### 9 Room temperature

Current room temperature appears here.

#### 10 Humidity

Current room humidity appears here.

### 11 Set temperature

The set temperature appears here.

The display varies with the selected operation mode.

#### 12 Day and time

Current day and time appear here.



Appears when the scheduled operation is being performed.

The icon \( \infty \) appears when the timer operation is prohibited.



Appears when the ON/OFF timer is activated or when the Night setback function is enabled.



Appears when the brightness sensor detects light brighter than a predetermined level.



Appears when the occupancy sensor senses an occupant.

## 17 🖣

Appears during the energy-save control (depending on the indoor unit model).



Appears when the filter needs maintenance.



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

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



Appears when the operation is centrally controlled.



Appears when the operation is locked.

### 22 Auto-OFF display

Appears when the Auto-OFF timer is activated.



Indicates the interlocked LOSSNAY unit (ventilator) setting.

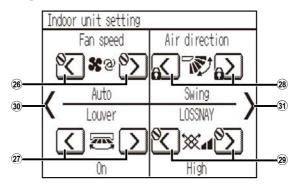


Appears when the set temperature range is restricted.

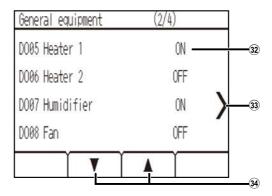


Touch to go to the General equipment screen.

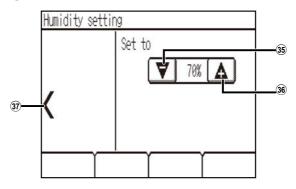
## Indoor unit setting screen



## General equipment screen



## Humidity setting screen



### 26 Fan speed

Touch to change the fan speed.

### 27 Louver

Touch to turn ON/OFF the louver.

### 28 Air direction

Touch to change the air direction.

### 29 LOSSNAY

Touch to change the fan speed of the LOSSNAY unit.



Touch to return to the Home screen.



Touch to go to the Humidity setting screen.

### 32 AHC input/output status

The input and output status of the general equipments connected to Advanced HVAC CONTROLLER (AHC) appear.



Touch to go to the Home screen.



Touch to go through the General equipment screen pages.



Touch to decrease the set humidity.

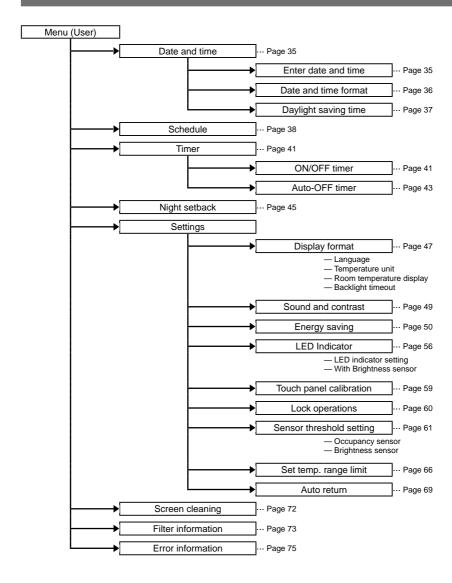


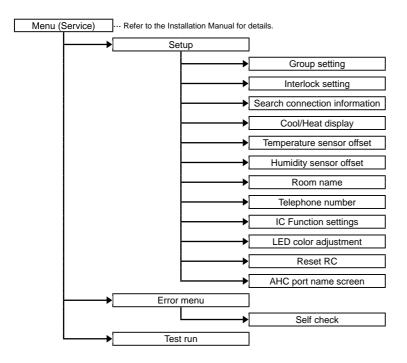
Touch to increase the set humidity.



Touch to go to the Indoor unit setting screen.

## Menu structure

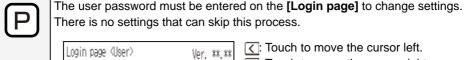


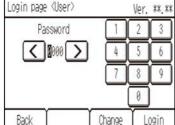


Not all functions are available on all models of indoor units.

## Icon explanations

## **Function settings** The table below Timer summarizes the square icons used in this manual.





- : Touch to move the cursor left.
- : Touch to move the cursor right. I - 9: Touch to input the number.
- \* Changes cannot be made unless the correct
- password is entered.



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



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/OFF



Touch the **[ON/OFF]** button to turn on or off the indoor unit.

- \* The LED indicator will light up when the indoor unit is turned on
- \* The LED indicator display depends on the settings for the function settings.
- \* When the operations of the LOSSNAY and indoor units are interlocked, LOSSNAY units will turn on (or off) when indoor units are turned on (or off).
- \* The unit will operate with the previously-set operation mode, set temperature, and fan speed.

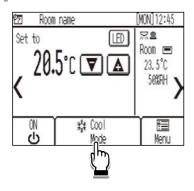
## Operation mode and Set temperature settings



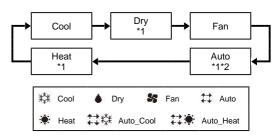


Button operation

# **Operation mode**



Touch the **[Operation mode]** button to go through the operation modes in the following order. Select the desired operation mode.



- \*1 Operation modes that are not available for the connected indoor unit will not appear on the display.
- \*2 Depending on the indoor unit model, either one or two set temperatures (single or dual set point(s)) can be set for Auto mode.
- \* LED indicator color changes according to the operation mode and the settings for the function settings.

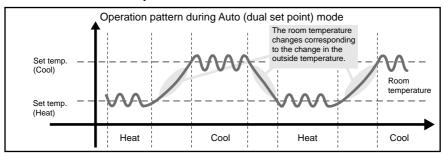
### What the blinking mode name means

The mode name 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.

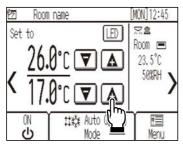
### Auto (dual set point) mode:

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

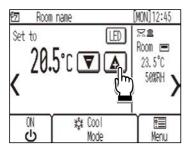
The set temperatures that are specified for the Cool/Dry mode and the Heat mode will be used to automatically control the room temperature to stay within the set temperatures. This mode is especially effective during the in-between seasons, when the temperature difference between the highest and the lowest is large and both heating and cooling modes are used within the same day.



# Set temperature



Auto (dual set point) mode



Cool, Heat, or Auto (single set point) mode

Touch ▼ or ▲ to decrease or increase the set temperature.

- Depending on the Temperature unit setting, temperatures will decrease or increase by 0.5°C, 1°C, 1°F, or 2°F increments. (See page 47.)
- Refer to the table on page 23 for the settable temperature range for different operation modes.
- Set temperature cannot be set for the Fan mode.

## Set temperature range

Operation mode	Set temperature range
Cool/Dry	19°C-35°C/67°F-95°F *1*5
Heat	4.5°C-28°C/40°F-83°F *1*5
Auto (single set point)	19°C-28°C/67°F-83°F *1*2*5
Auto (dual set points)	Cool: Same as the set temperature range for Cool mode Heat: Same as the set temperature range for Heat mode *2*3*4*5
Fan	Not settable

<sup>\*1</sup> The settable temperature ranges vary, depending on the indoor unit model.

- The cooling set temperature is greater than the heating set temperature.
- The difference between the cooling and heating set temperatures is equal or greater than the minimum temperature difference that varies with the indoor unit model.

<sup>\*2</sup> The set temperature for Auto mode (either single or dual set point(s)) will appear depending on the indoor unit model.

<sup>\*3</sup> The same values are used for the set temperature for Cool/Dry mode and the cooling set temperature for Auto mode (dual set points). Likewise, the same values are used for the set temperature for Heat mode and the heating set temperature for Auto mode (dual set points).

<sup>\*4</sup> The cooling and heating set temperatures can be set under the following conditions.

<sup>\*5</sup> Restrictions for the set temperature range will apply, if any. If the setting value is outside of the range, a message "Temp. range locked" will appear.

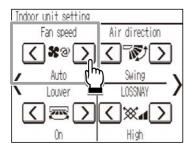
## Fan speed and Air direction settings





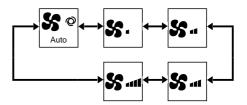
Button operation

# Fan speed



Touch (or ) to go through the fan speeds in the following order.

Select the desired setting.



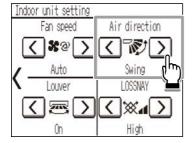
 The number of available fan speeds depends on the indoor unit model.

#### <Note>

The actual fan speed will differ from the fan speed displayed on the LCD when one of the following conditions is met.

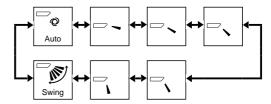
- · While "Standby" or "Defrost" is displayed
- When the room temperature is higher than the set temperature during the heating mode
- Immediately after the heating operation (during stand by for switching the operation mode)
- · During the Dry mode

## Air direction



Touch  $\bigcap$  or  $\bigcap$  to go through the airflow directions in the following order.

Select the desired setting.



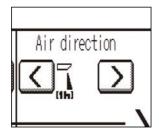
Select "Swing" to automatically swing the airflow direction.

 The settable air directions depend on the indoor unit model.

### <Note>

The actual air direction will differ from the air direction 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 set temperature during the heating mode
- Immediately after the heating operation (during stand by for switching the operation mode)



### [1h] icon

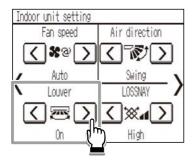
When this icon appears, the air direction setting will automatically change in an hour and the icon will go off (depending on the indoor unit model).

# Louver setting

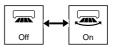


Button operation

## Louver



Touch  $\boxed{\ }$  or  $\boxed{\ }$  to turn on or off the louver swing.



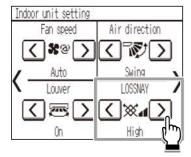
• The louver setting will not appear if the indoor unit does not feature the louver function.

## LOSSNAY setting



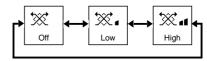
**Button operation** 

# LOSSNAY



Touch  $\bigcap$  or  $\bigcap$  to go through the fan speeds of the LOSSNAY unit in the following order.

\* Settable only when LOSSNAY unit is connected.

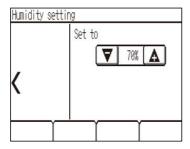


\* Indoor unit fan may operate even when the LOSSNAY unit is operated individually, depending on the models of the indoor unit and the LOSSNAY unit.

# **Humidity** setting

Button operation

# Humidity



Touch ▼ or ▲ to decrease or increase the humidity by 1%RH.

- The settable range is between 20% and 80% (RH).
- The Humidity setting screen will appear only when a humidifier is connected to AHC.

# Navigating through the Menu

# Menu list

Menu items		Setting items and details	Reference
IVIC		Octung nems and details	page
Date and time		Sets the current date and time.	35
		Selects the date and time format.	36
		Sets the daylight saving time.	37
Schedule	•	Schedules the operation ON/OFF times, operation modes, and set temperatures for a week.	38
Timer		Sets the ON/OFF timer.	41
Tilliel		Sets the Auto-OFF timer.	43
Night set	back	Sets the temperature range and start/stop times for the Night setback function.	45
		Display language setting	47
	Diaplay format	Temperature unit setting (0.5°C/1°C/°F)	47
	Display format	Show/Hide room temperature setting	47
		Backlight timeout setting	47
	Sound and	Sets the volume of the buzzer that sounds when the screen is touched.	49
	contrast	Sets the screen contrast.	49
		Turns off the unit for the energy-save control.	50
		Offsets the set temperature for the energy-save control.	50
	Energy saving	Sets the fan speed to "Low" for the energy-save control.	50
		Puts the unit into the Thermo-off state for the energy-save control.	50
		Specifies the days and the time periods when the energy-save control will be deactivated.	53
Cattinana		Sets the brightness sensor condition to deactivate the energy-save control.	53
Settings	LED Indicator	Sets the operation mode display setting. Sets the room temperature display setting.	56
		Selects the use or non-use of brightness sensor to switch LED indicator brightness.	56
	Touch panel calibration	Sets the calibration settings for the touch panel.	59
	Lock operations	Locks the ON/OFF, Operation mode, Set temperature, and Air direction settings.	60
	Sensor threshold setting	Sets the detection sensitivity level for the occupancy sensor.	61
		Sets the brightness/darkness detection thresholds for the brightness sensor.	64
	Set temp. range limit	Limits the settable temperature ranges for the Cool, Heat, and Auto modes.	66
	Auto return	Operates the unit at the specified temperature after the specified period of time.	69

Menu items	Setting items and details	Reference page
Screen cleaning	Temporarily makes the touch panel unresponsive to touch to allow for cleaning.	72
Filter information	Displays and resets the filter signs on the indoor and LOSSNAY units.	73
Error information	Displays the error status when an error occurs.	75

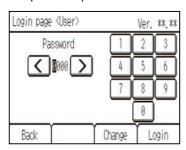
## About passwords

A password is required to access certain windows.

Two types of passwords are used as follows.

- Password that is used on the Menu (User)
- Password that is used on the Menu (Service)

## Example enter-password screen

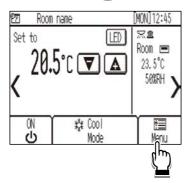


\* Refer to section 2 "Service Menu" in Chapter 2 "Initial Setting" in the Installation Manual for details about passwords.

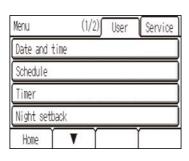
# Navigating through the Menu

**Button operation** 

# **Accessing the Menu**

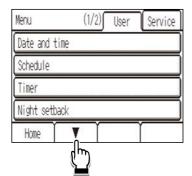


Touch the [Menu] button.



The Menu screen will appear.

# Navigating through the pages



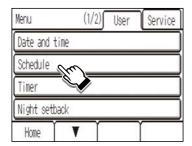


Touch ▼ or ▲ to switch between the pages.

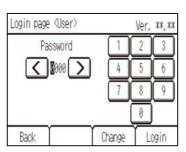
To access the Menu (Service) screen, touch the **[Service]** tab.

A maintenance access password will be required to access the Menu (Service) screen.

## Item selection

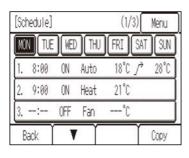


Touch the desired item on the Menu screen.



When an attempt is made to access a password-protected screen, a **[Login page]** will appear.

Enter a user password (default: 0000).

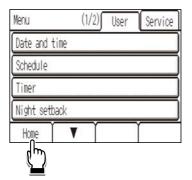


The settings screen for the selected item will appear.

### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# **Exiting the Menu screen**



Touch the **[Home]** button to exit the Menu screen and return to the Home screen.

If no buttons are touched for 10 minutes, the screen will automatically return to the Home screen. Any settings that have not been saved will be lost.

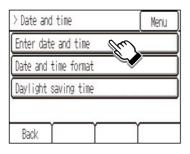
# Function settings

## Date and time

## Enter date and time

**Button operation** 

1



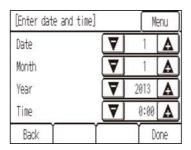
Select [Date and time] from the Menu.

Then, touch [Enter date and time] in the list.

Date and time setting is required before making the following settings.

- Schedule
- ON/OFF timer
- Night setback
- · Energy saving
- · Daylight saving time

2



Touch ▼ or ▲ to set the current date, month, year, and time.

Touch [Done] to save the settings.

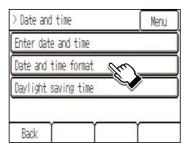
### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

## Date and time format

Button operation

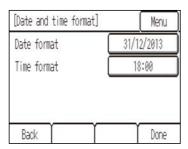
1



Select [Date and time] from the Menu.

Then, touch [Date and time format] in the list.

2



Touch the buttons to select date and time display formats.

Touch [Done] to save the settings.

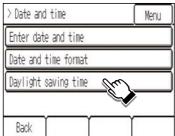
## Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# Daylight saving time

Button operation

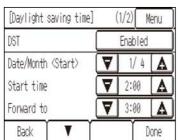
Σ

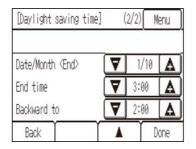


Select [Date and time] from the Menu.

Then, touch [Daylight saving time] in the list.

2





The default setting is "Disabled."

To activate the daylight saving time, touch the **[Disabled]** button to change it to **[Enabled]**.

- · Date/Month <Start>
- Start time
- · Forward to
- \* Set the time when the clock is to be set forward to at the Start time above.
- Date/Month < End> (2nd page)
- End time (2nd page)
- Backward to (2nd page)
  - \* Set the time when the clock is to be set backward to at the End time above.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

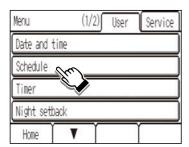
# Schedule



Operation ON/OFF times, operation modes, and set temperatures for a week can be scheduled. Up to eight operation patterns can be scheduled for each day.

### <Setting the schedules>

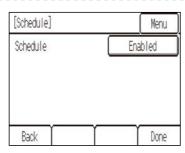
1



Select [Schedule] from the Menu.

The Schedule function will not work in the following cases: when the ON/OFF timer is enabled, during an error, during test run, when the clock is not set, when the ON/OFF operation, operation mode setting, set temperature setting, or timer execution is prohibited from the centralized controller.

2

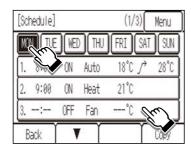


The default setting is "Disabled."

To activate the Schedule function, touch the [Disabled] button to change it to [Enabled].

Touch [Done] to access the settings screen.

3

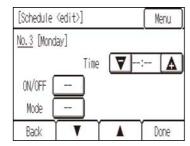


The current settings will appear.

Touch the day of the week button to see the schedule settings for the day.

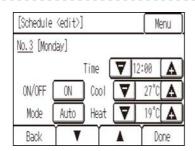
Up to eight operation patterns can be scheduled for each day. Touch ▼ to see patterns 4 through 8.

Touch the row of the pattern you want to edit.



The current settings for the selected day will appear.

5



Set the following items.

- Time
  - \* The time is settable in 5-minute increments.
  - \* Touch and hold  $\overline{\mathbf{v}}$  or  $\underline{\mathbf{A}}$  to rapidly advance the numbers.
- ON/OFF
- Mode
- Temperature
- \* The settable operation modes and temperature ranges vary, depending on the indoor unit model.

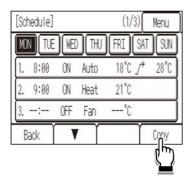
To continue setting schedules for other time periods, touch ▼ to access the settings screen.

When done making the settings, touch **[Done]**. A confirmation screen will appear. Touch **[OK]** to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

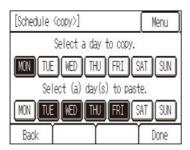
### <Copying a schedule>

1



To copy the schedule settings of a day to the schedule settings for another day of the week, touch [Copy].

2

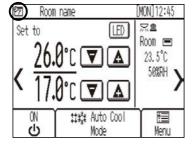


Touch the day whose schedule settings are to be copied and the day(s) to which the copied schedule settings are to be pasted.

When done making the settings, touch **[Done]**. A confirmation screen will appear. Touch **[OK]** to save the settings.

### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



will appear on the Home screen when the schedule setting for the current day exists.

The icon will not appear while the ON/OFF timer is enabled or the timer execution is prohibited from the centralized controller. In these cases, scheduled events will not be executed.

# Timer

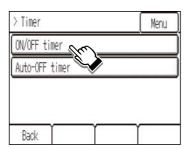


# ON/OFF timer

ON/OFF timer allows the user to set a timer to turn on or off the indoor unit at the specified times.

**Button operation** 

1

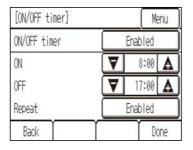


Select [Timer] from the Menu.

Then, touch [ON/OFF timer] in the list.

The ON/OFF timer will not work in the following cases: when ON/OFF timer is disabled, during an error, during test run, when the clock is not set, when the ON/OFF operation or timer execution is prohibited from the centralized controller.

2



To activate the ON/OFF timer, touch the [Disabled] button to change it to [Enabled].

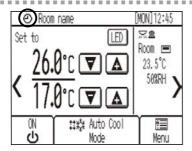
Specify the **[ON]**-time and **[OFF]**-time with the **V** buttons.

- The time is settable in 5-minute increments.
- \* Touch and hold ♥ or ▲ to rapidly advance the numbers.

To set the ON/OFF timer to repeat daily, set the [Repeat] setting to [Enabled].

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



② will appear on the Home screen when the ON/ OFF timer is enabled.

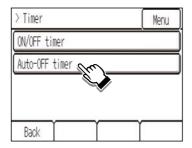
The timer will not be executed when the timer execution is prohibited from the centralized controller. ② will disappear.

# Auto-OFF timer

Auto-OFF timer allows the user to set a timer to turn off the indoor unit after the specified time has elapsed.

#### **Button operation**

1

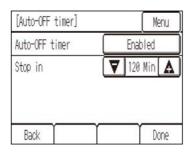


Select [Timer] from the Menu.

Then, touch [Auto-OFF timer] in the list.

The Auto-OFF timer will not work in the following cases: when Auto-OFF timer is disabled, during an error, during test run, when the ON/OFF operation or timer execution is prohibited from the centralized controller.

2



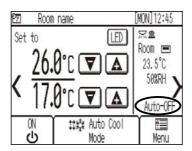
To activate the Auto-OFF timer, touch the **[Disabled]** button to change it to **[Enabled]**.

Specify the [Stop in]-time with the 🔻 🛕 buttons.

- \* Specify the time to elapse before the indoor unit is automatically turned off. The settable range is 30 to 240 minutes in 10-minute increments.
- \* Touch and hold ▼ or ▲ to rapidly advance the numbers.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



"Auto-OFF" will appear on the Home screen when the Auto-OFF timer is enabled.

When the timer execution is prohibited from the centralized controller, "Auto-OFF" will disappear.

# Night setback

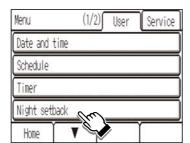


The Night setback function starts heating operation when a given group is stopped and the room temperature drops below the specified lower limit temperature. Also, this function starts cooling operation when a given group is stopped and the room temperature rises above the specified upper limit temperature.

\* If the room temperature is measured by the return air temperature sensor on the air conditioning unit, the measured value may not be an accurate representation of the temperature in the room, especially when the air conditioning unit is stopped and the room air is stagnant. When this is the case, use an external temperature sensor (PAC-SE40TSA/PAC-SE41TS-E) or remote controller sensor to measure the room temperature.

Button operation

1

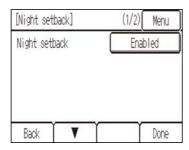


Select [Night setback] from the Menu.

The Night setback function will not work in the following cases: when the unit is in operation, when the Night setback function is disabled, during an error, during test run, when the clock is not set, when the ON/OFF operation, set temperature setting, or timer execution is prohibited from the centralized controller.

The Night setback function will be cancelled when the ON/OFF operation, operation mode setting, or set temperature setting is made from the remote controller while the Night setback function is executed.

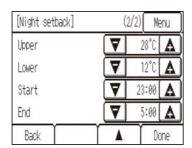
2



The default setting is "Disabled."

To activate the Night setback function, touch the **[Disabled]** button to change it to **[Enabled]**.

To continue making detailed settings, touch ▼ to access the settings screen.



The current settings will appear.

Set the following items.

- Temperature range
  - \* Set the upper limit temperature for cooling operation and the lower limit temperature for heating operation.
  - \* The difference between the lower and upper limit temperatures must be 4°C (8°F) or more.
  - \* The settable temperature range varies depending on the connected indoor unit model.
- · Start/Stop times
  - \* The time is settable in 5-minute increments.
  - \* Touch and hold  $\overline{\mathbf{v}}$  or  $\underline{\mathbf{A}}$  to rapidly advance the numbers.

Touch ▲ to access the previous screen.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

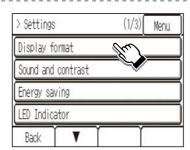
# Display format



- Language
- Temperature unit
- Room temperature display
- Backlight timeout

Button operation

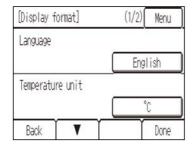
1



Touch [Settings] from the Menu.

Then, touch [Display format] in the list.

2



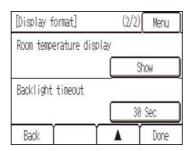
## Language

Touch the button to select the display language of your choice.

The language options are English, French, Spanish, German, Italian, Russian, Portuguese, and Swedish.

# Temperature unit

Touch the button to select the temperature unit from °C (0.5°C increments), 1°C (1°C increments), or °F.



# Room temperature display

Touch the button to select the desired room temperature display option to be used on the Home screen.

- Show: Room temperature appears on the Home screen.
- Hide: Room temperature does not appear on the Home screen.
- \* The indoor humidity display will also be shown or hidden according to the Show/Hide setting above.

### **Backlight timeout**

Touch the button to select the desired timeout of the backlight from 5, 10, 20, 30, and 60 seconds.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# Sound and contrast

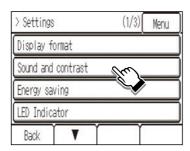


# Sound level

# Contrast

### Button operation

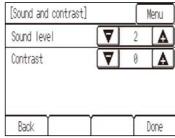
1



Touch [Settings] from the Menu.

Then, touch [Sound and contrast] in the list.

2



### Sound level

Set the volume of the buzzer that sounds when the screen is touched.

· Level 0-3 (Level 0: No sound)

### Contrast

Set the display contrast between -10 and +10. The greater the value, the higher the contrast.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# Energy saving (Assist function)

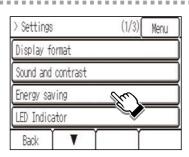


The energy-save control assist function can be set to activate when vacancy is detected while the air conditioning units are operated. (The default setting for this function is set to deactivate.)

# Selecting an energy-save control mode

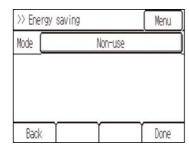
Button operation





 $\label{thm:condition} \mbox{Touch $[\textbf{Settings}]$ from the Menu.}$ 

Then, touch [Energy saving] in the list.



Touch the **[Mode]** button to select one of the following energy-save control modes that reduces energy-consumption during vacancy.

The default setting is "Non-use."

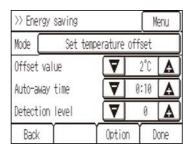
- Non-use: Deactivates the energy-save control assist function.
- Thermo-off\*1: Puts the unit into the Thermo-off state.
- Set temperature offset\*1\*2: Offsets the set temperature.
- Fan speed down\*3: Sets the fan speed to "Low."
- ON/OFF: Turns off the unit.
- \*1 When using the energy-save function of other system controllers in combination with the energy-save control assist function of the Smart ME Controller, do not select "Thermo-off" or "Set temperature offset."
- \*2 When the units are operated in the Fan mode, or when the set temperature setting is prohibited from the centralized controller, the set temperature will not be offset.
- \*3 If the connected indoor unit does not support the fan speed adjustment function, this item will not be displayed.

When the occupancy sensor detects occupancy during the energy-save control, the original operating status will be restored.

However, when the operating status is changed by other controllers or by the scheduled or timercontrolled events, the current operating status will be retained even if the occupancy sensor detects occupancy.

#### <Note>

 To use the energy-save control assist function in a system with both main and sub remote controllers, activate the function only on the remote controller whose coverage area is the largest.



Set the following items with the 🔽 🛕 buttons.

- Offset value (Effective only when "Set temperature offset" mode is selected)
  - \* Set the temperature value to be offset by from the set temperature during vacancy. The settable value range is between 1°C (2°F) and 4°C (8°F).
- Auto-away time (Effective when any mode is selected)
  - \* When no human movement is detected for the period of the time specified here, the energy-save control will be performed. The settable time range is between 0:00 and 24:00.
- Detection level (Effective when any mode is selected)
  - \* Adjust the detection sensitivity level according to the surrounding environment. (Recommended setting for ordinary use: Level 0) The greater the value, the higher the sensitivity. The settable levels are -2, -1, 0, 1, and 2.
  - \* A higher detection level can lead to false detection because the sensor tends to detect more noise.

As option settings, the energy-save control assist function can be set to deactivate during vacancy at the specified time periods on the specified days or when the brightness sensor detects "Light" or "Dark." (See page 53 for details.)

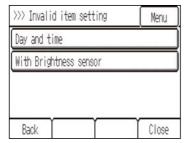
When done making the settings and if no settings need to be made for the option settings, touch **[Done]** to save the settings.

To make option settings, touch [Option].

# Invalid item setting (option settings)

Button operation



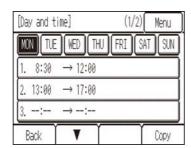


The energy-save control assist function can be set to deactivate during vacancy at the specified time periods on the specified days or when the brightness sensor detects "Light" or "Dark."

To specify time periods and days, touch **[Day and time]** from the list. (See step 2 below.)

To set the detection conditions for the brightness sensor, touch [With Brightness sensor] from the list. (See step 3 below.)

These two different types of settings can be made in combination. The energy-save control assist function will be deactivated when one of the conditions for the above items is met.



# Day and time

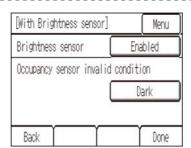
Specify the days and the time periods when the energy-save control assist function will be deactivated.

The settings of a day can be copied to the settings for another day of the week.

The setting details are the same as those for the schedule settings. Refer to page 38 for details.

\* To deactivate the function for an entire day, set the setting to "0:00→0:00."

3



# With Brightness sensor

To use the brightness sensor for the energy-save control, touch the **[Disabled]** button to change it to **[Enabled]**.

Touch the [Occupancy sensor invalid condition] button to select [Light] or [Dark].

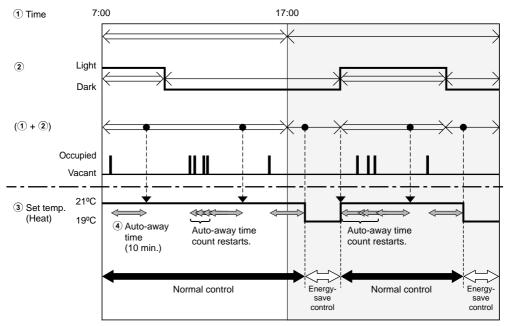
- Light: When the brightness sensor detects "Light" during vacancy, the energy-save control assist function will be deactivated.
- Dark: When the brightness sensor detects "Dark" during vacancy, the energy-save control assist function will be deactivated.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

## Example of the energy-save control assist function settings

Set	ting item	Setting example			
Invalid item setting (option settings)	Day and time	① 7:00 → 17:00			
	With Brightness sensor	2 Light			
Energy-save control mode		3 Set temperature offset (Offset value: 2°C)			
Auto-away time		4 0:10 (10 minutes)			



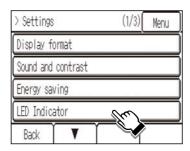
- Period during which energy-save control can not be performed even when vacancy is detected
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ 
  - ▼ Because the settings for the items under [Invalid item setting] are made, the energy-save control will not be performed at these times even when the occupancy sensor detects vacancy.

# LED Indicator



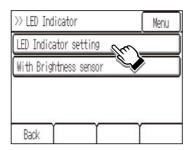
### Button operation

1

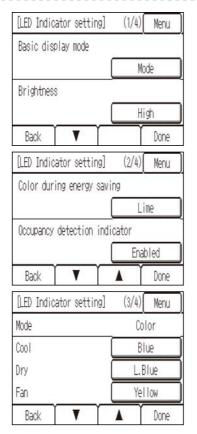


Touch [Settings] from the Menu.
Then, touch [LED Indicator] in the list.

2



Touch [LED Indicator setting] in the list.



The default setting for [Basic display mode] is "Mode."

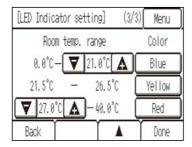
Touch the button to select the Basic display mode from "Mode," "Room temp.," or "Non-use."

Setting items common to "Mode" and "Room temp."

- Brightness
  - \* Select "High" or "Low."
  - \* This setting is effective only when the "With Brightness Sensor" setting (explained on the next page) is disabled.
- Color during energy saving (2nd page)
- \* Select the desired color to be used during energysave control.
- Occupancy detection indicator (2nd page)
- \* Select "Enabled" or "Disabled."
  When "Enabled" is selected, the LED indicator blinks once every 30 seconds when the occupancy sensor detects occupancy.

# Setting item specific to "Mode"

- Mode color (3rd and 4th pages)
  - \* Select the desired LED color for each operation mode.

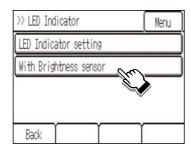


Setting item specific to "Room temp."

- Room temp. range and LED color (3rd page)
- \* Set the desired temperature ranges and the LED colors for low, medium, and high temperature range groups.

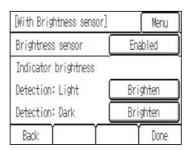
Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



To select the brightness level of the LED indicator to be used when the brightness sensor detects "Light" or "Dark," touch the **[With Brightness sensor]** in the list.

5



To use the brightness sensor for switching the brightness of the LED indicator, touch the **[Disabled]** button to change it to **[Enabled]**.

Set the following items.

- Detection: Light
- \* Select the brightness level of the LED indicator to be used when the brightness sensor detects "Light." Select "Brighten," "Darken," or "OFF"
- · Detection: Dark
  - \* Select the brightness level of the LED indicator to be used when the brightness sensor detects "Dark." Select "Brighten," "Darken," or "OFF"

Touch [Done] to save the settings.

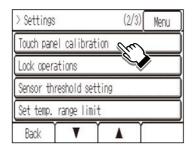
- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# Touch panel calibration



#### Button operation

1



Touch [Settings] from the Menu.

Then, touch [Touch panel calibration] in the list.

A confirmation screen will appear.

Touch [OK].

2

Touch the black dots in the order they appear on the screen.
There will be nine of them all together.

Touch the black dots with a touch pen in a minute, starting from the top left corner.

Touch the black dots in the order they appear, starting from the top left corner.

After all nine squares are touched, the screen will return to the previous screen.

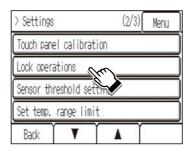
- If each square is not touched within one minute after the last square is touched, calibration will be canceled and the screen will return to the previous screen.
- To calibrate the screen properly, use a pointy, but not sharp object to touch the black dots.
  - \* Sharp objects may scratch the touch panel.

# Lock operations



#### Button operation

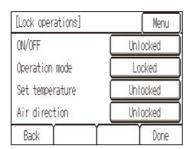
1



Touch [Settings] from the Menu.

Then, touch [Lock operations] in the list.

2



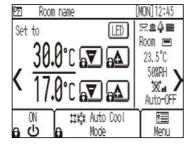
To lock the following operation items, touch the **[Unlocked]** button to change it to **[Locked]**.

- ON/OFF
- · Operation mode
- · Set temperature
- · Air direction

Touch [Done] to save the settings.

### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



will appear on the Home screen when the operation is locked.

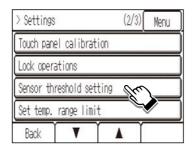
# Sensor threshold setting



# Occupancy sensor

Button operation

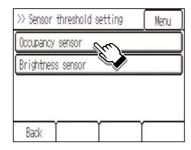
1



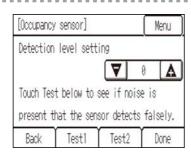
Touch [Settings] from the Menu.

Then, touch [Sensor threshold setting] in the list.

2



To set the detection sensitivity level of the occupancy sensor, touch [Occupancy sensor] in the list.



Set the detection sensitivity level with the ▼ 🛕 buttons.



- Level: -2, -1, 0 (default), 1, 2
- \* The detection level setting made here will also be reflected on the detection level setting on the "Energy saving" screen.

The larger the value, the more sensitive the sensor will be to light.

Use the default conditions under normal conditions. If the sensor is oversensitive or undersensitive, adjust the detection sensitivity level.

Use the following tests to adjust the detection sensitivity to the appropriate level: A vacancy test (Test 1) and an occupancy test (Test 2).

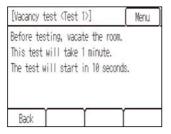
A higher detection sensitivity level can lead to false detection because the sensor tends to detect more noise.

Touch [Done] to save the settings.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

## Performing sensor detection sensitivity tests

Test 1: Vacancy test



To start Test 1, touch [Test 1].

Ten seconds later, the vacancy detection test will automatically begin.

This test will test for the presence of noise that leads to false detection.

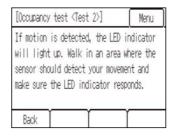
Leave the room within 10 seconds after touching the button, and leave the room unoccupied for 1 minute until the test is completed.

When the test is complete, the result will be displayed in color on the LED indicator.

- Blue: Normal (The sensor correctly detected vacancy without being interfered with by noise.)
- Red: Error (The sensor falsely detected occupancy due to noise.)

If the sensor failed to correctly detect vacancy, lower the detection sensitivity level and try again.

Test 2: Occupancy test



To start Test 2, touch [Test 2].

When movements are detected, the LED indicator will light up in blue.

Walk away from the remote controller, and walk around in areas where you want the sensor to detect motions to see if it will respond correctly.

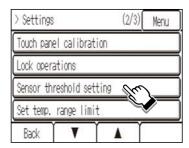
If the sensor does not respond, raise the detection sensitivity level and try again.

The sensor detection area is as follows: 110° to either side, 10 meters (32 feet). Some conditions will render the sensor susceptible to false detection. Refer to "How To Install" in chapter 1 in the Installation Manual.

# Brightness sensor

**Button operation** 

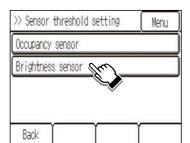
1



Touch [Settings] from the Menu.

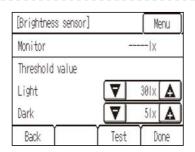
Then, touch [Sensor threshold setting] in the list.

2



To set the threshold value of the brightness sensor, touch [Brightness sensor] in the list.

3



The lux values to be used to determine the "Dark" state and "Light" state can be set.

These statuses are used as parameters for energy-save control and LED indicator control. Set the lux values to an appropriate values suitable for a given environment.

Try changing the brightness in a given space (e.g., by drawing curtains) while adjusting the lux levels.

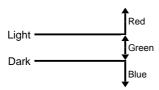
Set the values and touch [Done].

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

# Performing a test

When **[Test]** is touched, the current lux level in a given space will appear next to "Monitor" on the screen.

The LED indicator will indicate the brightness status of a given space in colors.

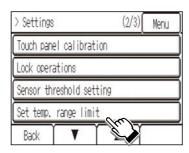


# Set temperature range limit



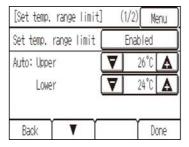
### Button operation

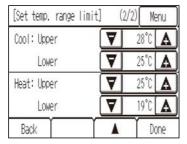




Touch [Settings] from the Menu.

Then, touch [Set temp. range limit] in the list.





The default setting is "Disabled."

To limit the settable temperature ranges for the Auto, Cool (Dry), and Heat modes, touch the **[Disabled]** button to change it to **[Enabled]**.

Set the upper and lower limit temperatures for the following operation modes in the table below with the \(\nabla\) \(\Delta\) buttons. (The temperatures will decrease or increase by 1°C or 1°F increments.)

 If the connected indoor unit does not feature the Auto mode, the items related to the Auto mode will not be displayed.

### Settable upper and lower limit temperatures

Operation mode	Lower limit	Upper limit		
Auto (Single)	19°C-28°C (67°F-83°F)	28°C-19°C (83°F-67°F)		
Cool/Dry, Auto (Dual)_Cool	19°C-35°C (67°F-95°F)	35°C-19°C (95°F-67°F)		
Heat, Auto (Dual)_Heat	5°C-28°C (40°F-83°F)	28°C-5°C (83°F-40°F)		

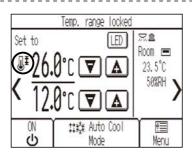
<sup>\* &</sup>quot;Auto (single set point)" is referred to as "Auto (Single)" in the table. "Auto (dual set points)" is referred to as "Auto (Dual)" in the table.

- \* The settable operation modes and temperature ranges vary, depending on the indoor unit model.
- \* The cooling and heating temperature ranges can be set under the following conditions.
  - The difference between the cooling and heating upper limit temperatures is equal or greater than the minimum temperature difference that varies with the indoor unit model.
  - The difference between the cooling and heating lower limit temperatures is equal or greater than the minimum temperature difference that varies with the indoor unit model.

When done making the settings, touch **[Done]** to save the settings.

# Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



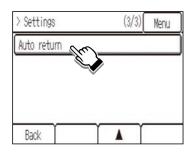
# Auto return



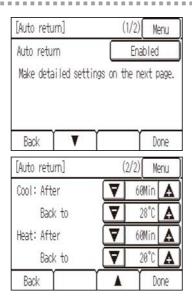
The Auto-return function allows the user to operate the unit at the specified temperature after the specified period of time.

### Button operation





Touch **[Settings]** from the Menu. Then, touch **[Auto return]** in the list.



The default setting is "Disabled."

To activate the Auto-return function, touch the **[Disabled]** button to change it to **[Enabled]**.

Set the following items with the \( \bar{\bar{\Bar}} \) \( \bar{\Bar} \) buttons.

The temperatures will decrease or increase by 1°C or 1°F increments.

- Cool
  - \* Specify the time to elapse before the set temperature automatically changes to the set temperature specified below during cooling operation. The settable time range is 10 to 120 minutes in 10-minute increments.
  - \* Specify the set temperature to be used after the period of time specified above. The settable temperature range is 19°C to 35°C (67°F to 95°F) (depending on the indoor unit model).
  - \* "Cool" includes the "Dry" and "Auto\_Cool" modes.
- Heat
  - \* Specify the time to elapse before the set temperature automatically changes to the set temperature specified below during heating operation. The settable time range is 10 to 120 minutes in 10-minute increments.
  - \* Specify the set temperature to be used after the period of time specified above. The settable temperature range is 5°C to 28°C (40°F to 83°F) (depending on the indoor unit model).
  - \* "Heat" includes the "Auto Heat" modes.

When done making the settings, touch **[Done]** to save the settings.

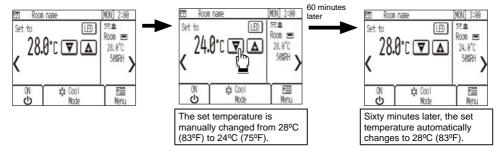
### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button

The Auto-return function settings will not be effective when the set temperature range is restricted and when the set temperature setting or timer execution is prohibited from the centralized controller.

### <Sample screens when the Auto-return function is enabled>

Example: Lower the set temperature to 24°C (75°F). Sixty minutes later, the set temperature will automatically change to 28°C (83°F).

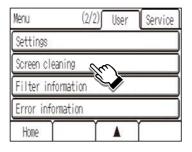


# **Maintenance**

# Screen cleaning

#### Button operation

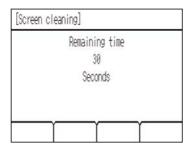
1



Touch [Screen cleaning] from the Menu.

A confirmation screen will appear. Touch **[OK]**.

2

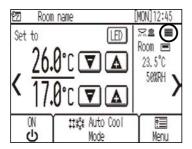


Clean the touch panel within 30 seconds. The touch panel is deactivated for 30 seconds and then returns to the Menu screen.

\* The buzzer will sound while the touch panel is being touched.

Wipe with a soft dry cloth, a cloth soaked in water with mild detergent, or a cloth dampened with ethanol. Do not use acidic, alkaline, or organic solvents.

# Filter information



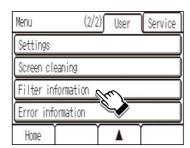
will appear on the Home screen when it is time to clean the filters.

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

Refer to the indoor unit Instructions Manual for how to clean the filters.

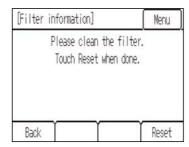
### Button operation

1



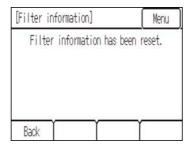
Touch [Filter information] from the Menu.

2



Touch [Reset] to reset the filter sign.

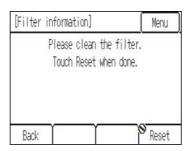
A confirmation screen will appear. Touch **[OK]**.



A message indicating that the filter information has been reset will appear.

### Navigating through the screens

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



When this screen appears, 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.

will appear when the filter on one of the units is due for cleaning.

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

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.

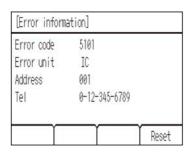
# **Troubleshooting**

# **Error** information

When an error occurs, the **[Error information]** screen will appear. Check the error status, stop the operation, and consult your dealer.

#### Button operation

1



Error code, error unit, and address will appear. Dealer's phone number will appear if the information has been registered in the settings screen under the Menu (Service).

\* The LED indicator will blink at 1-second intervals while the error is occurring.

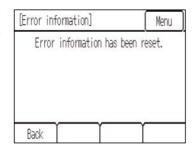
Touch [Reset] to reset the error that is occurring. A confirmation screen will appear.

Touch [OK].

\* When an error occurs with the AHC, [Home] button will appear. The Home screen will be accessible without the need for an error reset.

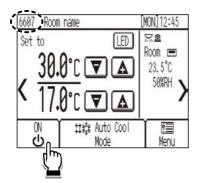
Errors cannot be reset when the ON/OFF operation is prohibited from the centralized controller.

2



A message indicating that the error information has been reset will appear.

- To return to the Menu screen: [Menu] button
- To return to the previous screen: [Back] button



If a type of error occurs that allows the units to continue their operation, only an error code will appear in the schedule display area (enclosed in dotted line) on the Home screen.

When this type of error occurs, the LED indicator will not blink.

To reset the error, press the **[ON/OFF]** button.

# **Specifications**

# Controller specifications

Specifications						
Power Source		17–32 VDC *1 (for connection to M-NET only)	Receives power from outdoor units via the M-NET transmission cable. The power consumption coefficient*2 of the Smart ME Controller is "0.5".			
Operating conditions	Temperature	Operating temperature range	0°C - +40°C (+32°F - +104°F)			
		Storage temperature range	-20°C - +60°C (-4°F - +140°F)			
	Humidity	20%–90% RH (Non-condensing)				
Weight		0.3 kg (11/16 lbs)				
External dimensions (W x H x D)		140 x 120 (123) x 25 (28.8) mm 5-17/32 x 4-3/4 (4-27/32) x 1 (1-5/32) in				
		* The numbers in the parenthesis indicate the dimensions including the protruding parts.				

<sup>\*1</sup> Not for use with a generic DC power supply device.

<sup>\*2 &</sup>quot;Power consumption coefficient" is a coefficient to calculate the relative power consumption of the devices that receive power through the M-NET transmission cable. Refer to section 4 "System diagram" in Chapter 1 in the Installation Manual.

# List of functions that can/cannot be used in combination

	Schedule	ON/OFF timer	Auto-OFF timer	Auto return	Set temp. range limit	Lock operations	Night setback	Centrally controlled	Energy saving (Assist function)
Schedule		<b>X</b> <sub>1</sub>	0	0	0	0	<b>Δ</b> 5	O *1	0
ON/OFF timer	<b>X</b> 1		0	0	0	0	<b>Δ</b> 3	O *1	0
Auto-OFF timer	0	0		0	0	0	<b>A</b> 4	O *1	0
Auto return	0	0	0		<b>X</b> 2	0	<b>\( \Lambda \)</b> 7	O *1	Δ1
Set temp. range limit	0	0	0	<b>X</b> 2		0	Δ6	0	0
Lock operations	0	0	0	0	0		0	0	0
Night setback	<b>\( \Delta \)</b> 5	<b>Δ</b> 3	<b>A</b> 4	<b>\( \Delta \)</b> 7	Δ6	0		<b>Δ</b> 1	Δ8
Centrally controlled	O *1	O *1	O*1	O *1	0	0	<b>Δ</b> 1		Δ2
Energy saving (Assist function)	0	0	0	Δ1	0	0	<b>A</b> 8	<b>\( \Lambda</b> 2	

- O: The functions can be used in combination.
- ▲: Restricted X: The functions cannot be used in combination.
- X1 : The "Schedule" setting is not effective because "ON/OFF timer" has the higher priority.
- X2 : The "Auto return" function cannot be used because the "Set temp. range limit" setting has the higher priority.
- △1 : The "Auto return" function will not be executed when the units are operated in the "Set temperature offset"
- $\Delta$ 2 : The units cannot be operated in the energy-saving mode if the operation is prohibited from the centralized
- △3 : The "Night setback" function will not be executed when the unit has been turned on by "ON/OFF timer."
- △4: The "Auto-OFF timer" function will not be executed while the "Night setback" function is executed.
- △5 : The "Night setback" function will not be executed when the unit has been turned on by "Schedule" settings.
- △6 : The "Set temp. range limit" settings will not be effective while the "Night setback" function is executed.
- △7 : The "Auto return" function will not be executed while the "Night setback" function is executed.
- △8 : The "Energy saving" function will not be executed while the "Night setback" function is executed.

<sup>\*1 :</sup> The events that are prohibited from the centralized controller will not be executed.

#### Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 2004/108/EC
- Restriction of Hazardous Substances 2011/65/EU