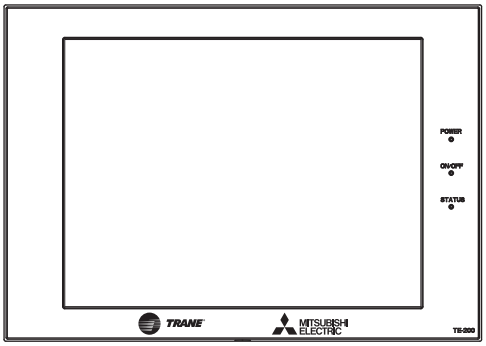
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TRANE®

MITSUBISHI ELECTRIC

Air Conditioning Control System
Centralized Controller
TE-200A/TE-50A

Instruction Book



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Before using the controller, please read this Instruction Book carefully to ensure proper operation.
Retain this manual for future reference.

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1. Safety precautions

► **Observe these precautions carefully to ensure safety.**

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

► **The user should 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 units. Make sure that the manual is passed on to any future air conditioning system user.**

⚠ WARNING	: indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	: indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
CAUTION	: addresses practices not related to personal injury, such as product and/or property damage.

1-1. General precautions

⚠ WARNING

Do not install the controller in areas where large amounts of oil, steam, organic solvents, or corrosive gases (such as ammonia, sulfuric compounds, or acids), or areas where acidic/alkaline solutions or special chemical sprays are used frequently. These substances may significantly reduce the performance and corrode the internal parts, resulting in electric shock, malfunction, smoke, or fire.

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

To reduce the risk of electric shock, malfunction, smoke, or fire, do not touch the electrical parts, USB memory, or touch panel with wet fingers.

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, keep children away while installing, inspecting, or repairing the controller.

If you notice any abnormality (e.g., burning smell), stop the operation, turn off the controller, and consult your dealer. Continuing the operation may result in electric shock, malfunction, or fire.

Properly install all required covers to keep moisture and dust out of the controller. Dust accumulation and the presence of water may result in 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 electric shock or malfunction, do not touch the touch panel, switches, or buttons with a sharp object.

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

To reduce the risk of injury, electric shock, or malfunction, avoid contact with the sharp edges of certain parts.

Consult your dealer for the proper disposal of the controller. Improper disposal will pose a risk of environmental pollution.

1-2. Precautions for relocating or repairing the unit

⚠ WARNING

The controller must be repaired or moved only by qualified personnel. Do not disassemble or modify the controller. Improper installation or repair may result in injury, electric shock, or fire.

1-3. Additional precautions

CAUTION

To avoid discoloration, do not use benzene, thinner, or chemical rag to clean the controller. When the controller is heavily soiled, wipe the controller with a well-wrung cloth that has been soaked in water with mild detergent, and then wipe off with a dry cloth.

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.

2. Introduction

TE-200A/TE-50A is a centralized controller.
TW-50A is an LCD-less total management system.
Any connected air conditioning systems can be operated or monitored on the TE-200A/TE-50A's LCD or the Integrated Centralized Control Web.
By using a PI controller that is built-in on the TE-200A/TE-50A/TW-50A, the energy-control-related status can be displayed and Peak Cut control can be performed without a use of a PI controller (PAC-YG60MCA).
Each TE-200A/TE-50A can control up to a total of 50 indoor units and other equipment. By connecting TE-200A (main controller) and TE-50A/TW-50A (expansion controllers), up to 200 indoor units and other equipment can be controlled.
TE-200A/TE-50A/TW-50A and Mitsubishi Electric's AE-200A/AE-50A/EW-50A have the same functions.
"AE-200," "AE-50," or "EW-50" is displayed instead of "TE-200A," "TE-50A," or "TW-50A" on the TE-200A/TE-50A/TW-50A's LCD or the Integrated Centralized Control Web.

2-1. Terms used in this manual

- "Centralized Controller TE-200A" is referred to as "TE-200."
- "Centralized Controller TE-50A" is referred to as "TE-50."
- "Centralized Controller TW-50A" is referred to as "TW-50."

2-2. Required licenses

The required licenses vary, depending on the functions to be used. Refer to the License Classification List for details. Purchase the required licenses from your dealer. Refer to section 5-2-4 for license registration.

2-3. "Group", "Block", "EM block", and "Floor" definitions

The terms "Group", "Block", "EM block", and "Floor" used in this manual are defined as follows.

Group: Group is a group of air conditioning units and controllers and is the smallest unit that the TE-200/TE-50 can control. The maximum number of units that each group can contain is 16.

Block: Each block consists of one or more groups. Multiple groups of units in a given block can be monitored or operated collectively.

EM block: EM block stands for Energy management block, and this groups multiple blocks. Use for charge apportioning units and for settings of blocks spanning TE-200 and TE-50/TW-50.

Floor: Floor is one or more groups of units on each floor that are treated as one unit.

2-4. About this manual

This manual explains how to make basic operations of the LCD and the Integrated Centralized Control Web, and also how to make settings required when the controller is installed. For settings methods when the controller is installed, refer to section 5 "Initial startup settings". For further information of operation methods and function settings such as how to monitor and operate the units other than air conditioning units, refer to the following Instruction Books. Ask your dealer for how to obtain these Instruction Books.

AE-200A/AE-50A/EW-50A Instruction Book (Initial Settings)
AE-200A/AE-50A Instruction Book (Detailed operations)
AE-200A/AE-50A/EW-50A Instruction Book (Integrated Centralized Control Web)

* TE-200A/TE-50A/TW-50A and Mitsubishi Electric's AE-200A/AE-50A/EW-50A have the same functions. Use these instruction books, replacing the model names AE-200A/AE-50A/EW-50A to TE-200A/TE-50A/TW-50A.

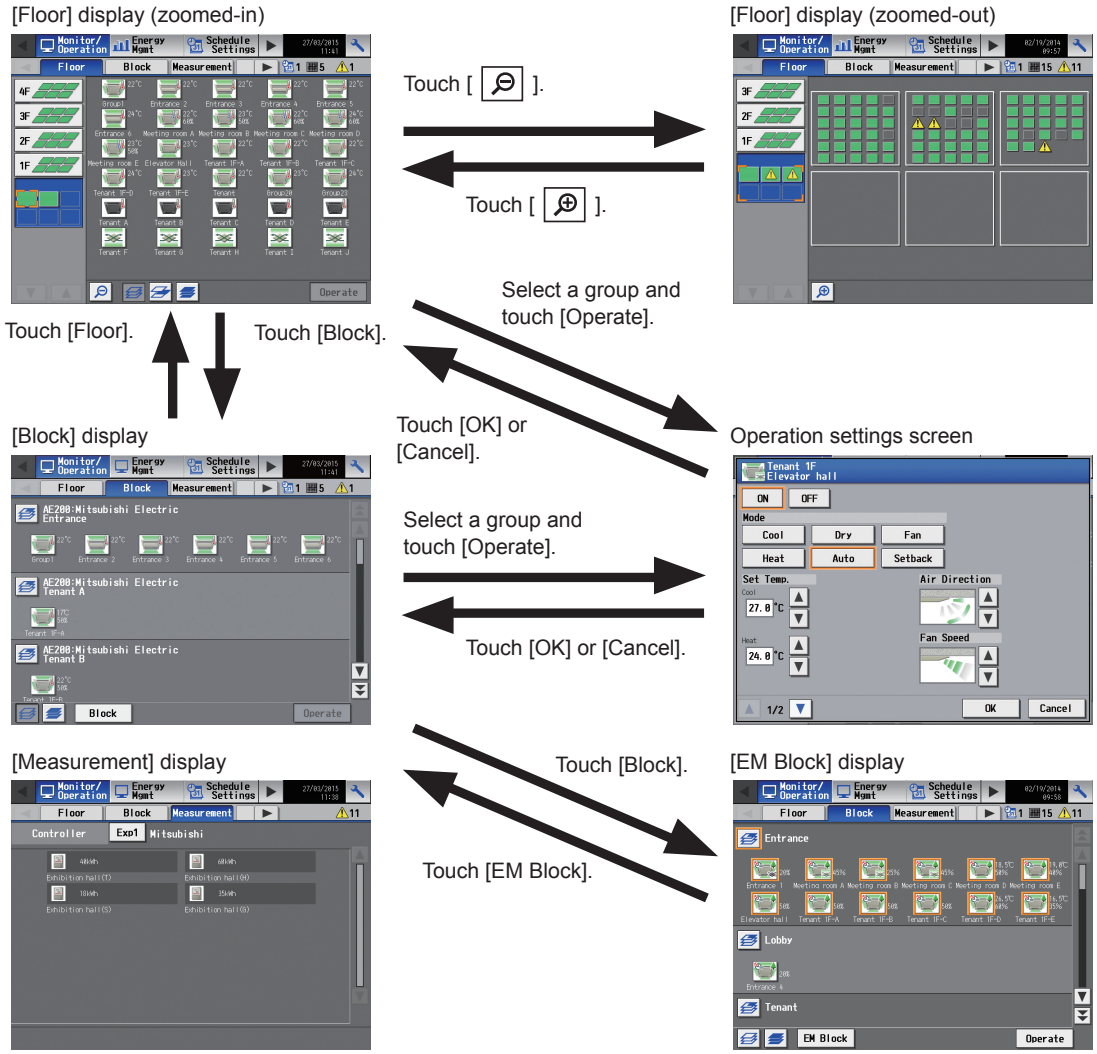
3. Basic operations

3-1. Monitor/Operation

Unit groups can be monitored and operated on the TE-200/TE-50's LCD or the Integrated Centralized Control Web. This section explains how to monitor and operate the unit groups.

3-1-1. Screen sequence

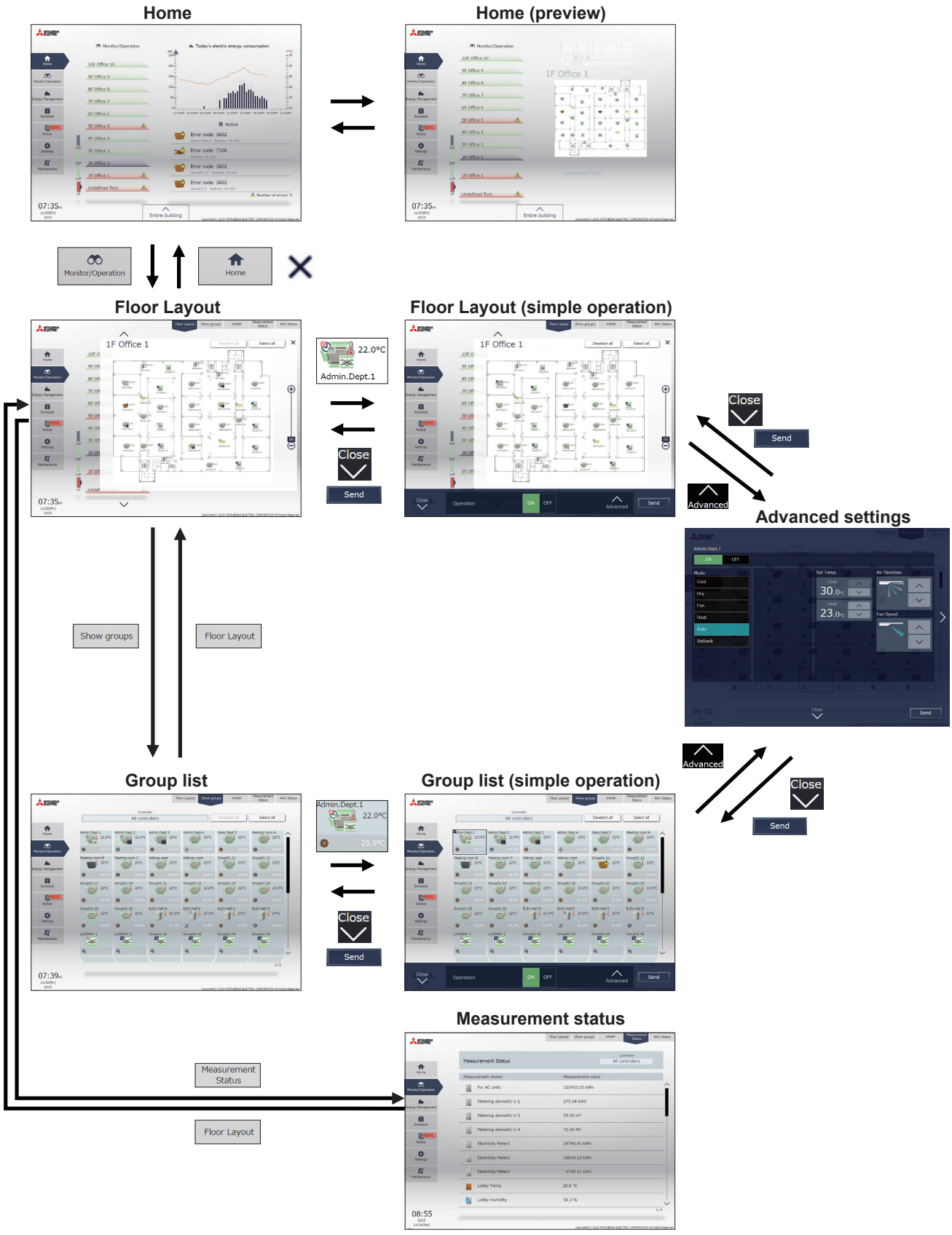
3-1-1-1. LCD



* The [Measurement] tab will appear only when an AI or PI controller is connected or when the TE-200 built-in PI controller is enabled.

For further information of operation methods for each function, refer to the Instruction Book (Detailed operations).

3-1-1-2. Integrated Centralized Control Web



3-1-2. Group icons

Each group icon indicates the operation condition of the group. Touch the icon, and then touch [Operate] to bring up the operation settings screen.

Air conditioning unit group

ON	OFF	Error	Schedule set
			

Note: Refer to the Instruction Book (Detailed operations) or Instruction Book (Integrated Centralized Control Web) for details and other icons.

3-1-3. Checking the operation conditions

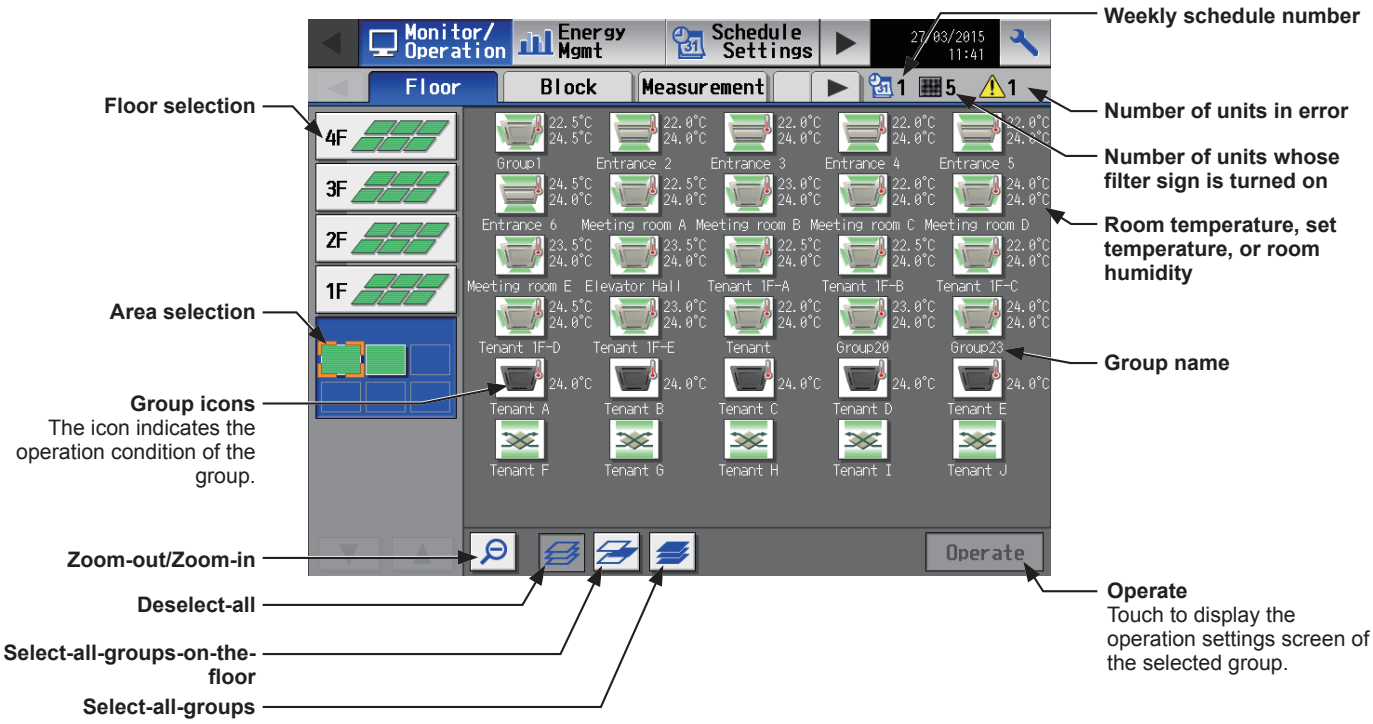
This section explains how to display the operation conditions of units.

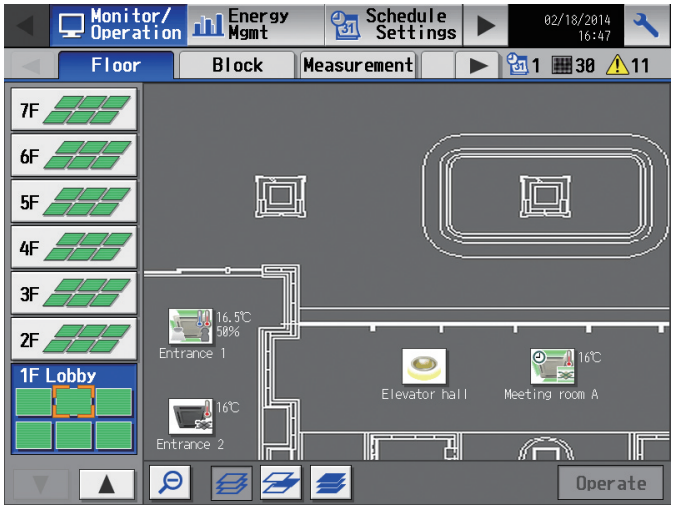
3-1-3-1. LCD

[1] [Floor] display

Touch [Monitor/Operation] in the menu bar, and then touch [Floor].

Note: The unit groups that are under the control of TE-200, TE-50, and TW-50 can be displayed.



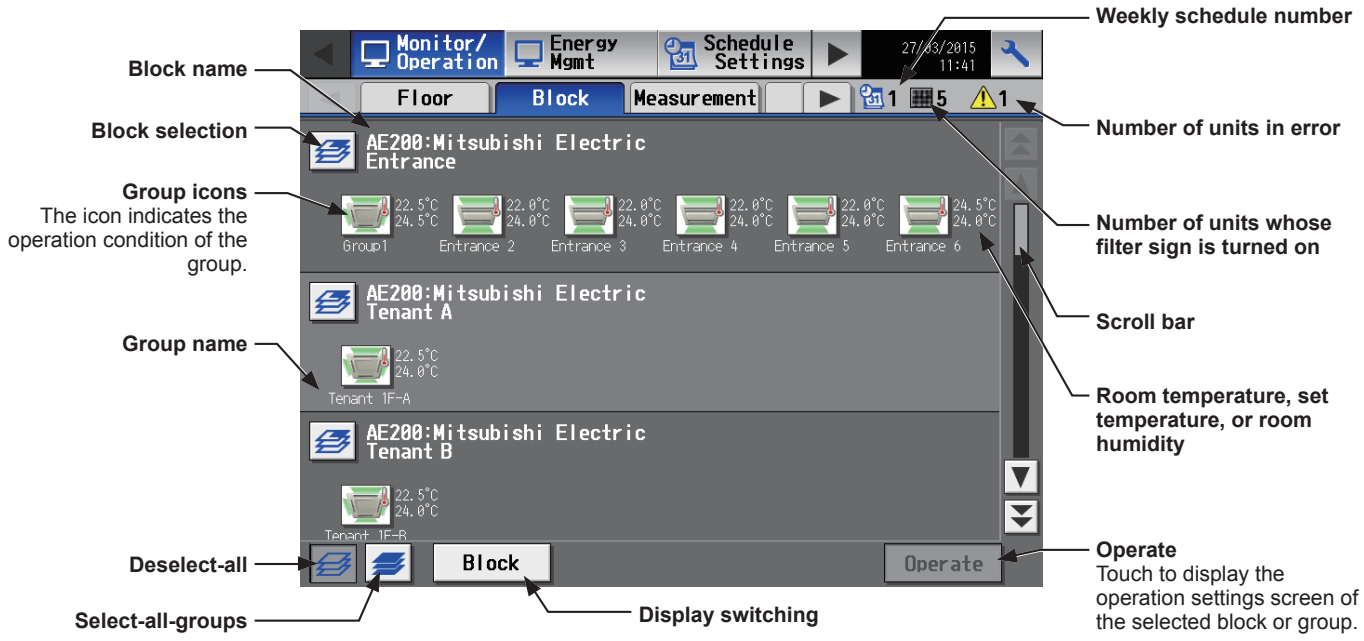


Item	Description
Floor selection	Select a floor you want to monitor.
Area selection	Select an area of the selected floor you want to monitor.
Group name	The name of the group will appear.
Room temperature, set temperature, or room humidity	Indoor unit return air temperature, set temperature, or room humidity will appear. Note: The outlet air temperature is displayed for the room temperature of outlet air temperature control units.
Weekly schedule number	The weekly schedule number that is currently effective will appear.
Number of units whose filter sign is turned on *1	The number of units whose filter sign is currently turned on will appear. Touching "▦" will bring up the [Filter Sign] screen. (See section 3-4-2 "Filter Sign List".)
Number of units in error *1	The number of units that are currently in error will appear. Touching "⚠" will bring up the [Malfunction] screen. (See section 3-4-1 "Malfunction List".)
Deselect-all	Touch to cancel all group selections.
Select-all-groups-on-the-floor	Touch to select all groups on the currently selected floor.
Select-all-groups	Touch to select all groups.
Zoom-out	Touch to display the status of the whole floor.
Zoom-in	Touch to go to the zoomed-in screen.

*1 The item will not appear if the number of units is "0."

[2] [Block] display

Touch [Monitor/Operation] in the menu bar, and then touch [Block].

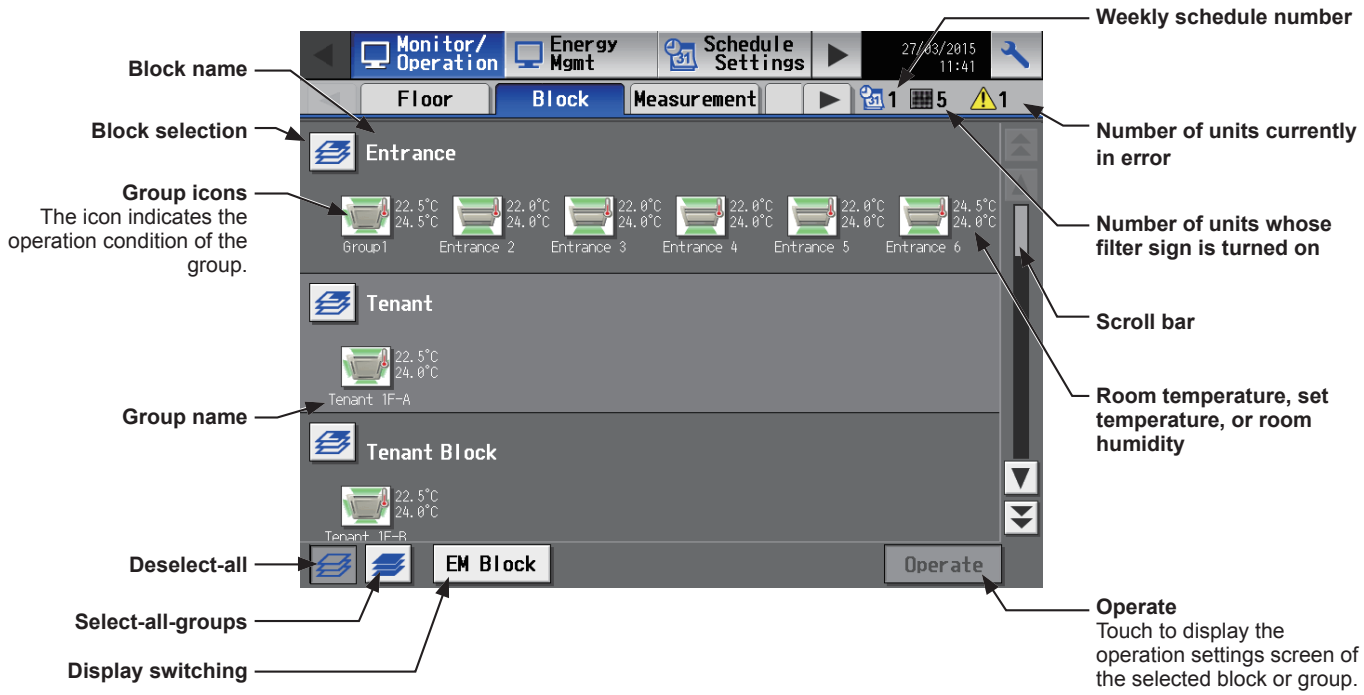


Item	Description
Block selection	Select a block you want to monitor. (Refer to the Instruction Book (Detailed operations) for details.)
Group name	The name of the group will appear.
Block name	The name of the block will appear. Note: ["Exp" (TE-50/TW-50 No.): Block name] will appear for the name of the block connected to TE-50/TW-50.
Room temperature, set temperature, or room humidity	Indoor unit return air temperature, set temperature, or room humidity will appear. Note: The outlet air temperature is displayed for the room temperature of outlet air temperature control units.
Weekly schedule number	The weekly schedule number that is currently effective will appear.
Number of units whose filter sign is turned on *1	The number of units whose filter sign is currently turned on will appear. Touching "▦" will bring up the [Filter Sign] screen. (See section 3-4-2 "Filter Sign List".)
Number of units in error *1	The number of units that are currently in error will appear. Touching "⚠" will bring up the [Malfunction] screen. (See section 3-4-1 "Malfunction List".)
Deselect-all	Touch to cancel all group selections.
Select-all-groups	Touch to select all groups.
Display switching	Switch between Block display and EM Block display.

*1 The item will not appear if the number of units is "0."

[3] [EM Block] display

Touch [Monitor/Operation] in the menu bar, and then touch [Block].



Item	Description
Block selection	Select a block you want to monitor.
Group name	The name of the group will appear.
Block name	The name of the block will appear.
Room temperature, set temperature, or room humidity	Indoor unit return air temperature, set temperature, or room humidity will appear. Note: The outlet air temperature is displayed for the room temperature of outlet air temperature control units.
Weekly schedule number	The weekly schedule number that is currently effective will appear.
Number of units whose filter sign is turned on *1	The number of units whose filter sign is currently turned on will appear. Touching "▦" will bring up the [Filter Sign] screen. (See section 3-4-2 "Filter Sign List".)
Number of units currently in error *1	The number of units that are currently in error will appear. Touching "⚠" will bring up the [Malfunction] screen. (See section 3-4-1 "Malfunction List".)
Deselect-all	Touch to cancel all group selections.
Select-all-groups	Touch to select all groups.
Display switching	Switch between Block display and EM Block display.

*1 The item will not appear if the number of units is "0."

3-1-3-2. Integrated Centralized Control Web

[1] Group display

Click [Monitor/Operation] in the menu, and then click [Show groups] to display the operation status of unit groups.



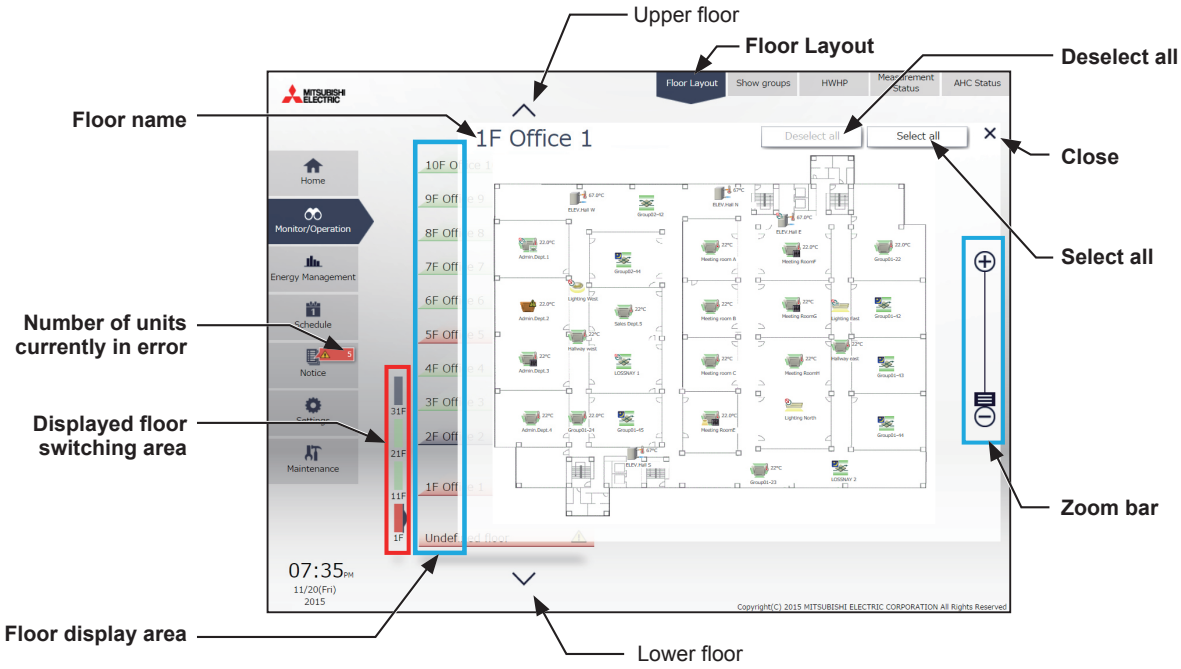
Item	Description
Controller	Click to narrow down the unit groups to display into “Centralized controller units,” “Block units,” and “Energy management block units.”
Number of units currently in error	The number of units that are under the control of TE-200/TE-50/TW-50 and currently in error will appear. Clicking [Notice] > [Error List] will bring up the Error List screen. (See section 3-4-1 “Malfunction List”.)
Select all	Click to select all unit groups that are displayed.
Deselect all	Click to cancel all selections at once.
Group icon	Type and status of units that belong to the group will appear.

[2] Floor Layout display

Click [Monitor/Operation] in the menu, and then click [Floor Layout] or “Floor display area” to display the operation status of unit groups on the floor layout. The floor layout to be displayed can be changed by clicking “Floor display area” and “Displayed floor switching area” while the floor layout is displayed.

Note: If you click “Floor display area” in the Home screen, the menu changes to [Monitor/Operation] and the floor layout of the clicked floor is displayed.

Note: If a floor layout is not registered, a floor layout will not be displayed.



Item	Description
Displayed floor switching area	Switches the floors displayed in the floor display area in units of 10 floors. It simply displays the status of the air conditioning units registered to the floors. (Green): One or more units on the floor are in operation. (Gray): All units on the floor are stopped. (Red): One or more units on the floor are in error. Note: The number of buttons for switching displayed floors that are shown differs depending on the settings configured in “Floor settings” of Initial Setting Tool.
Floor display area	Displays the operation status of the air conditioning units for 10 floors. It simply displays the status of the air conditioning units registered to the floors. Green : One or more units on the floor are in operation. Gray : All units on the floor are stopped. Red : One or more units on the floor are in error.
Number of units currently in error	The number of units that are under the control of TE-200/TE-50/TW-50 and currently in error will appear. Clicking [Notice] > [Error List] will bring up the Error List screen. (See section 3-4-1 “Malfunction List”.)
Floor name	The name of the floor shown is displayed.
Upper floor	Click to move to the upper floor.
Lower floor	Click to move to the lower floor.
Select all	Click to select all unit groups that are displayed.
Deselect all	Click to cancel all selections at once.
Close	Click to close the Floor Layout screen.
Zoom bar	Click to zoom in/out the floor layout.

3-1-4. Selecting the icons of the groups to be operated

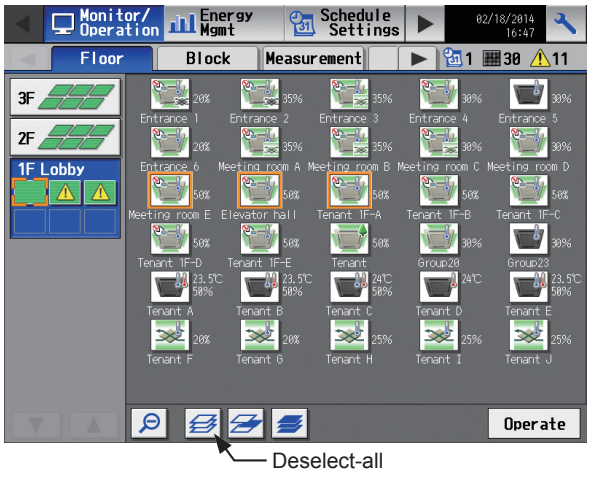
On the [Floor] or [Block] display under the [Monitor/Operation] menu, select the icon(s) of the group(s) to be operated as explained below, and then touch [Operate] (click [Advanced] on the Integrated Centralized Control Web) to bring up the operation settings screen.

3-1-4-1. LCD

[1] Selecting group icons

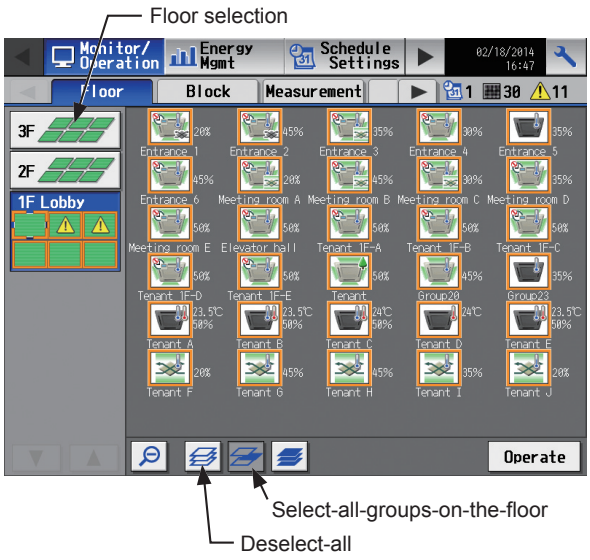
(1) Selecting a group

On the [Floor] or [Block] display, touch the icon(s) of the group(s) you want to operate. The selected group icon(s) will appear with an orange frame.
Touch again to deselect.
To cancel all group selections, touch the “Deselect-all” button.



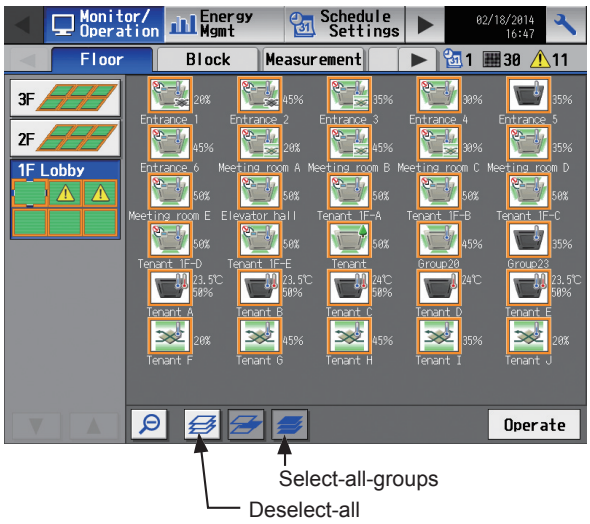
(2) Selecting all groups on the selected floor

On the [Floor] display, touch the floor(s) you want to operate, and then touch the “Select-all-groups-on-the-floor” button. The selected floor and group icons will appear with an orange frame.
To cancel all group selections, touch the “Deselect-all” button.



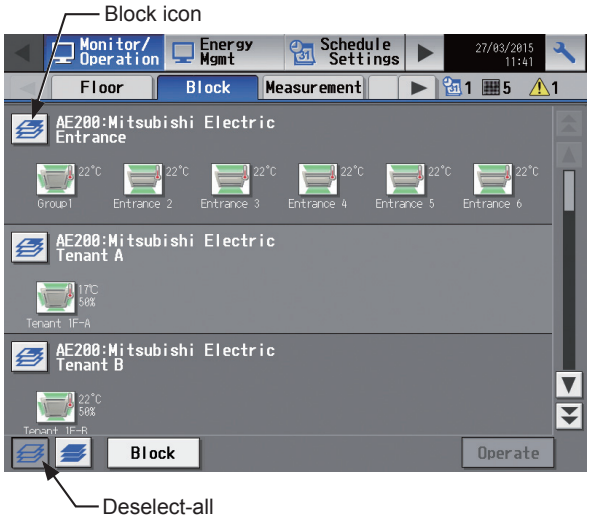
(3) Selecting all groups on all floors

On the [Floor] or [Block] display, touch the “Select-all-groups” button. All floor and group icons will appear with an orange frame.
To cancel all group selections, touch the “Deselect-all” button.



(4) Selecting all groups in the selected block

On the [Block] or [EM Block] display, touch the block(s) you want to operate. The selected block and group icons will appear with an orange frame.
Touch again to deselect.
To cancel all group selections, touch the “Deselect-all” button.



[2] Selecting equipment type

(1) When the equipment types of all selected groups are the same

Selecting the group icons and touching [Operate] will bring up the operation settings screen for the selected groups.
Refer to section 3-1-5 “Operation settings screen” for details about the operation settings.

(2) When the equipment types of the selected groups are different

Selecting the group icons and touching [Operate] will bring up the equipment type selection screen.
Touch the equipment type(s) you want to operate, and then touch [OK] to bring up the operation settings screen for the selected equipment groups.
Refer to section 3-1-5 “Operation settings screen” for details about the operation settings.

Note: When two or more equipment types are selected, only the [ON/OFF], [Schedule], and [Hold] settings will appear on the operation settings screen.

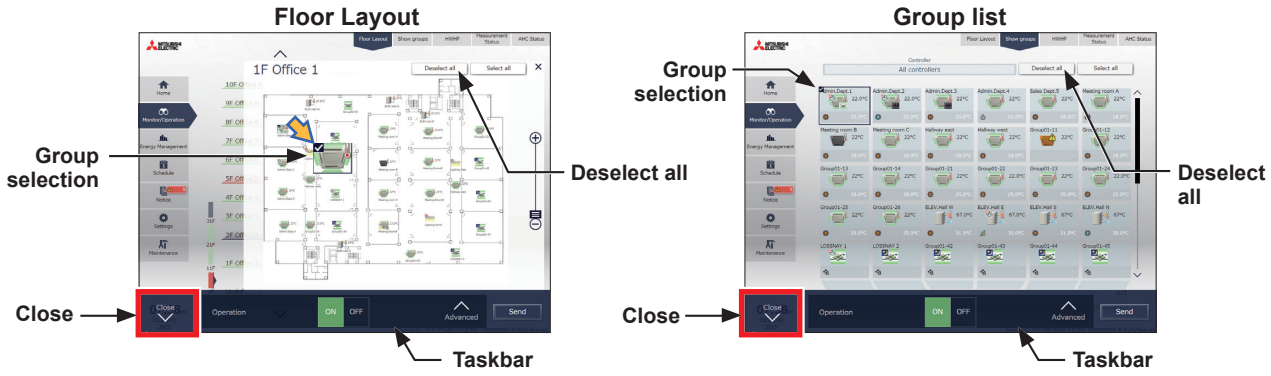


3-1-4-2. Integrated Centralized Control Web

[1] Selecting group icons

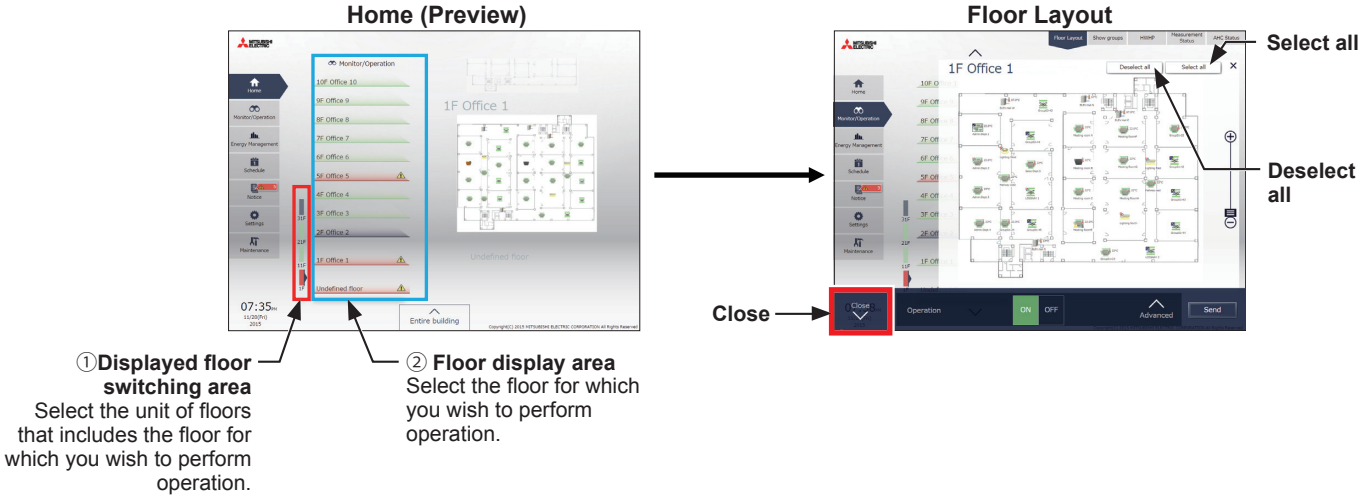
(1) Selecting unit group(s)

(1) In the Floor Layout screen or group list, click the icon(s) of the group(s) you want to operate.
The selected group icon(s) will appear with a checkmark and a dark blue frame.
Click again to deselect.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(2) Selecting all unit groups on the selected floor

(1) Select the floor for which you wish to perform operation by making a selection in “Displayed floor switching area” and then “Floor display area” on the Home (Preview) screen, and then click [Select all] on the [Floor Layout] screen.
All icon(s) on the selected floor will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(3) Selecting all groups

(1) In the group list, click [Select all].
The all icon(s) will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(4) Selecting all groups of a given centralized controller

(1) In the group list, click [Controller]. In the controller selection screen, select a centralized controller.
The unit groups that are under the control of the selected centralized controller will appear.
In the group list (centralized controller units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



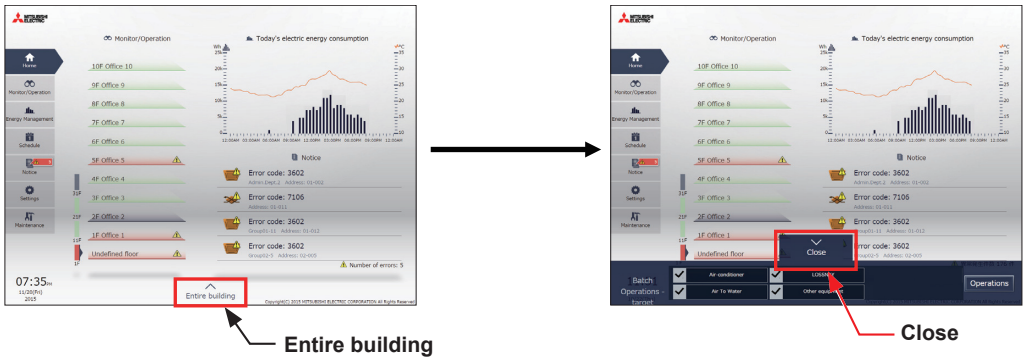
(5) Selecting all groups in a given block/energy management block

(1) In the group list, click [Controller]. In the block selection screen, select a block.
The unit groups that belong to the selected block will appear.
In the group list (block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(6) Selecting all groups in the entire building

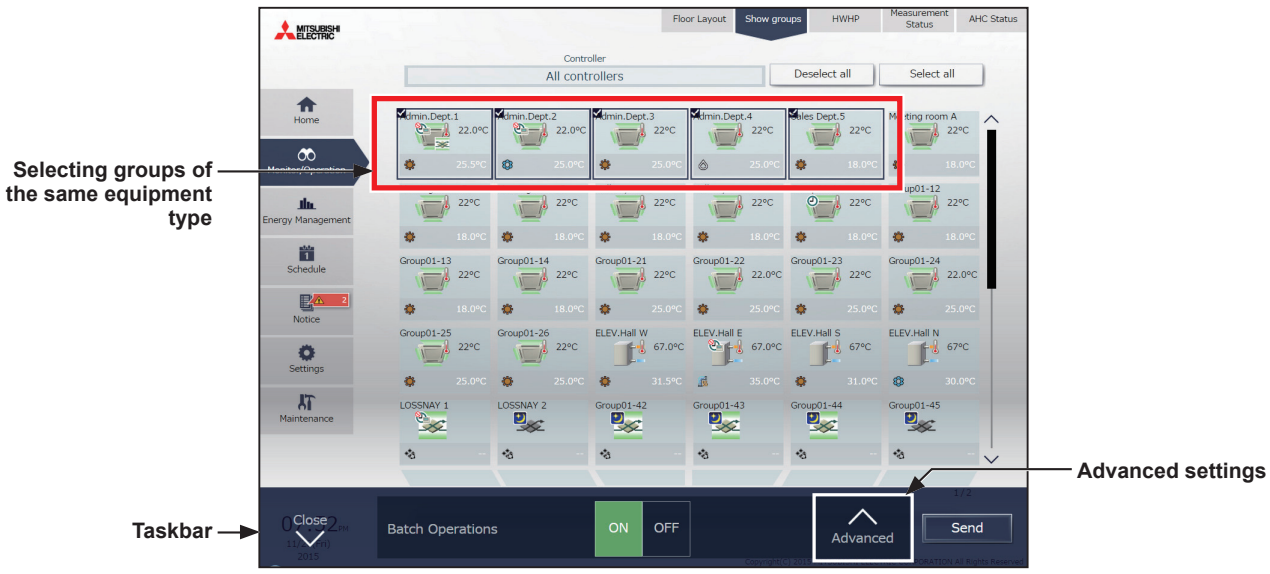
(1) In the Home screen, click [Entire building].
To cancel all group selections, click [Close] in the taskbar.



[2] Selecting equipment type

(1) When the equipment types of all selected groups are the same

Selecting the group icons to operate and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected groups.
Refer to section 3-1-5 “Operation settings screen” for details about the advanced settings.



Note: [ON] and [OFF] operations can be performed on the taskbar for the selected unit groups.

(2) When the equipment types of the selected groups are different

Selecting the group icons to operate will bring up the equipment type selection options in the taskbar.
Select an equipment type, and click [Operations] to display the operation settings screen.
Refer to section 3-1-5 “Operation settings screen” for details about the advanced settings.



Note: When two or more equipment types are selected, only the [ON/OFF] and [Schedule] settings can be configured.
Note: [Other equipment] in the taskbar indicates general equipment.

3-1-5. Operation settings screen

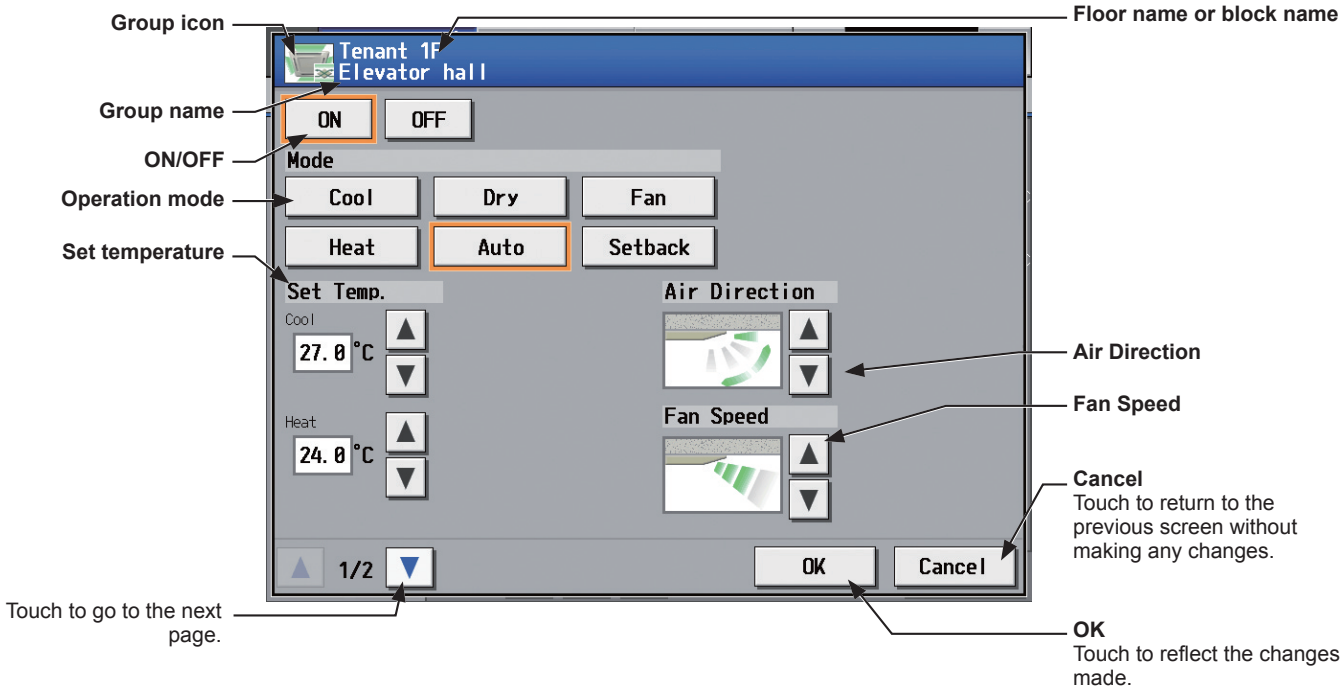
On the screen under the [Monitor/Operation] menu, selecting the group icon and touching [Operate] (click [Advanced] on the Integrated Centralized Control Web) will bring up the operation settings screen for the selected group. The current operation conditions will appear.

Change necessary operation settings, and then touch [OK] (click [Send] on the Integrated Centralized Control Web) to save the settings. Touch [Cancel] (click [Close] on the Integrated Centralized Control Web) to return to the previous screen without making any changes.

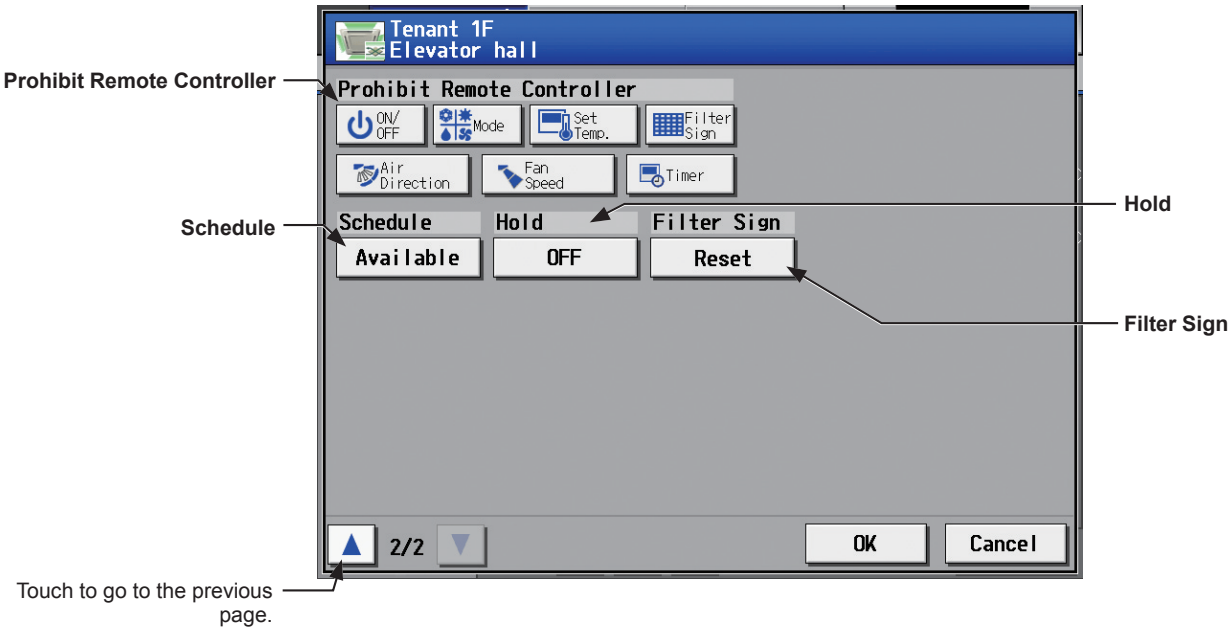
Note: When the setting is changed from other controllers, the operation conditions shown on the screen will not be updated while the screen is open.

3-1-5-1. LCD

1st page

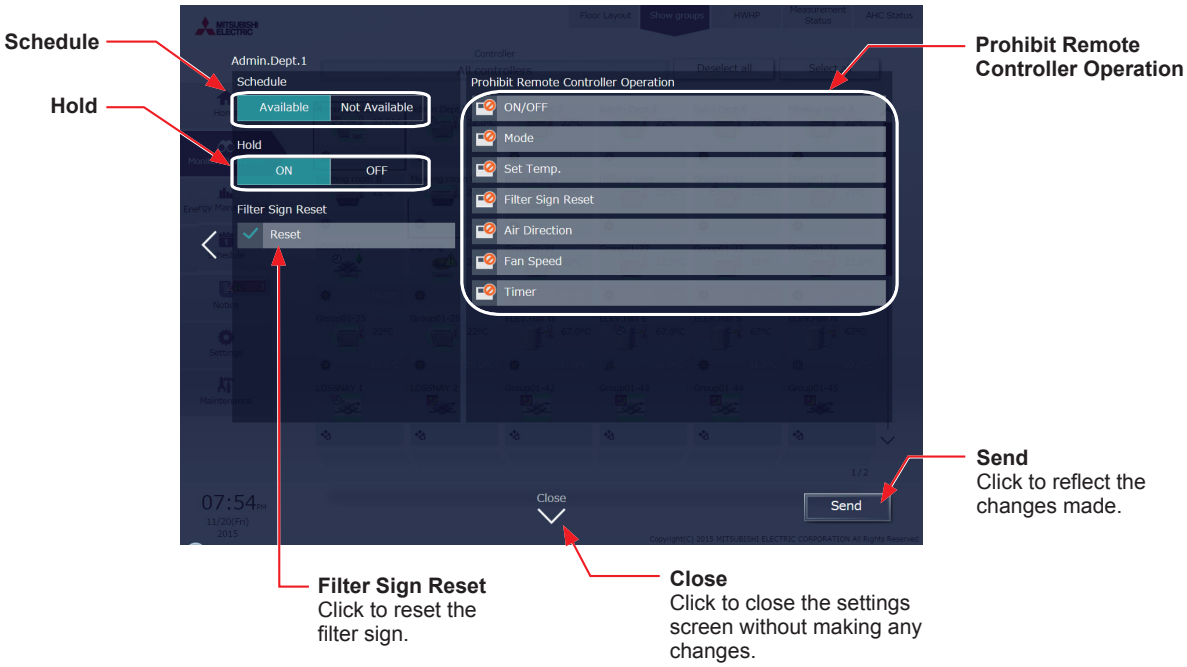


2nd page



3-1-5-2. Integrated Centralized Control Web





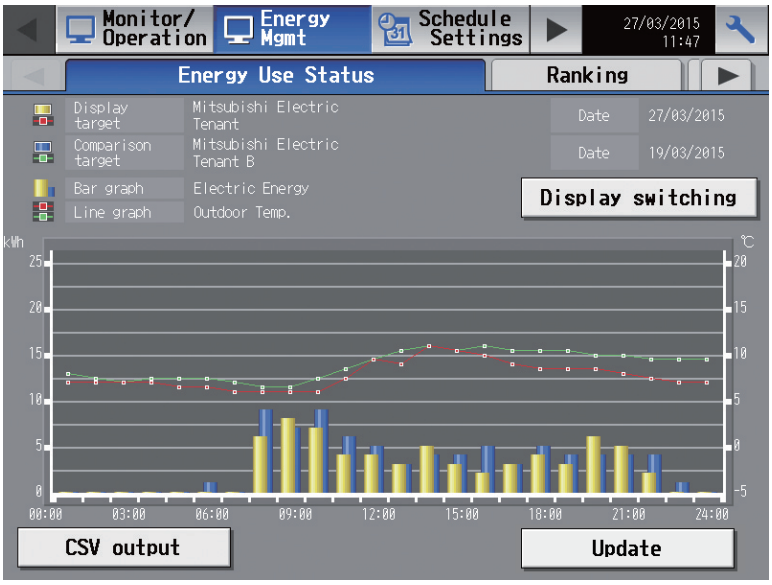
3-2. Energy Management

Only the outline of energy management function is given in this manual. For details on how to use the function, refer to the AE-200/AE-50 Instruction Book (Detailed operations) or the AE-200/AE-50/EW-50 Instruction Book (Integrated Centralized Control Web).

3-2-1. Energy Use Status

On the [Energy Use Status] screen, the energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph.

3-2-1-1. LCD



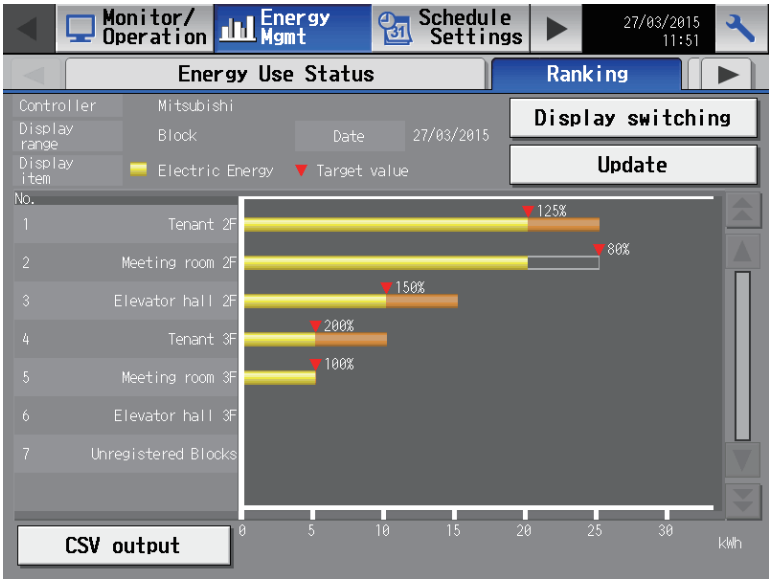
3-2-1-2. Integrated Centralized Control Web



3-2-2. Ranking

On the Ranking screen, the rankings in electric energy consumption, fan operation time, and Thermo-ON time (Total/ Cool/Heat) of given indoor units can be displayed per block, group, and unit address in descending order in the bar graph.

3-2-2-1. LCD



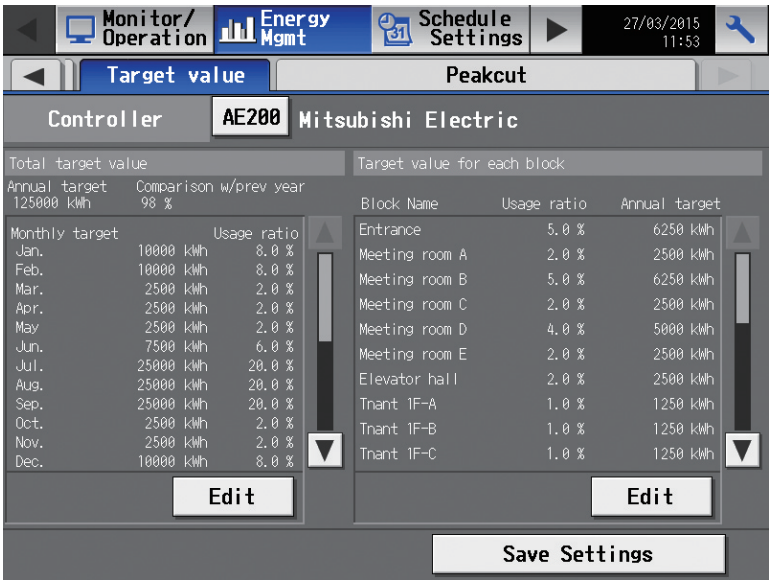
3-2-2-2. Integrated Centralized Control Web



3-2-3. Target value

This section explains how to set the target electric energy consumption values for the entire system for the current year, each month, each day of the week, and each block.

3-2-3-1. LCD



3-2-3-2. Integrated Centralized Control Web



Note: Target values can only be displayed on the Integrated Centralized Control Web.

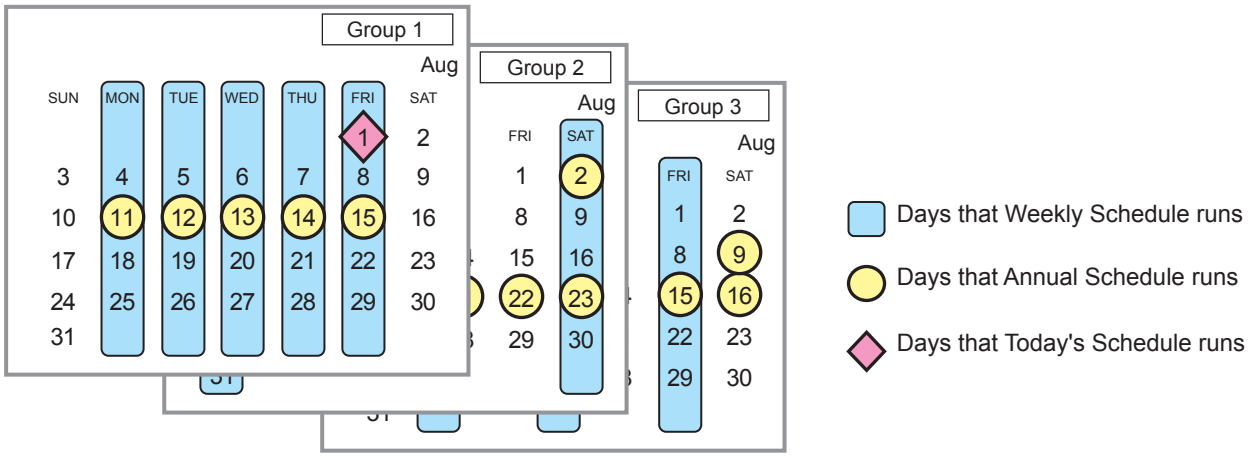
3-3. Schedule

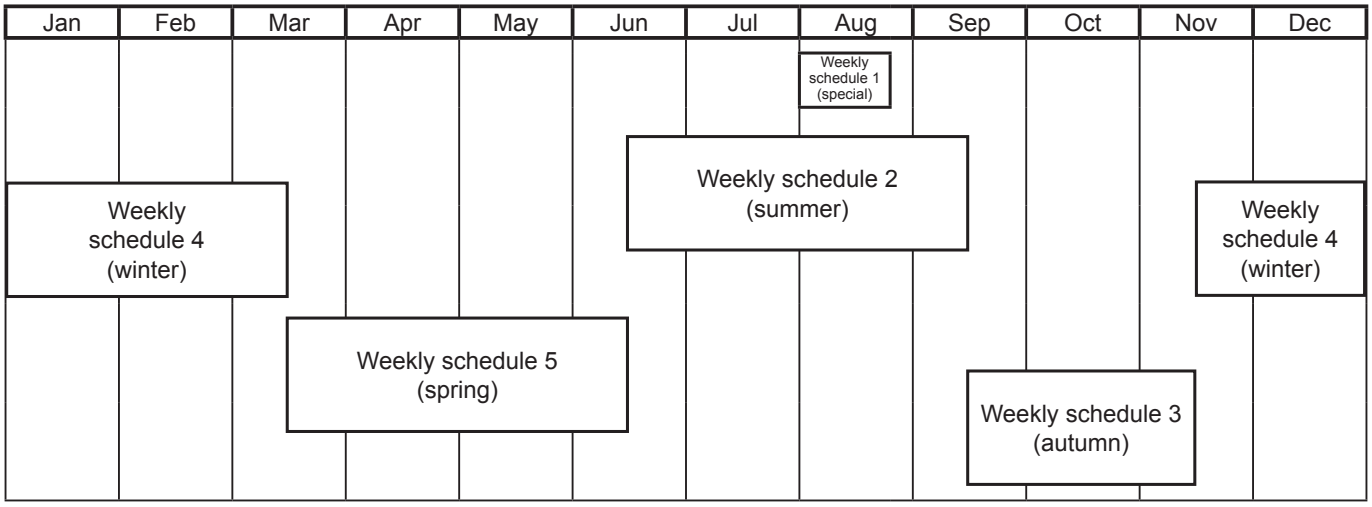
Weekly (5 types), annual (5 types), and current day scheduling are available. Schedules can be set for each group, each floor, each block, or all groups.

Important

- When one or more TE-50/TW-50 controllers are connected, the schedule settings must be made with the TE-50/TW-50 properly connected to ensure proper settings.
- Set the [Schedule] setting on the operation settings screen to [Available] to enable the scheduled events. (Refer to section 3-1-5 “Operation settings screen” for details.)

Schedule setting example

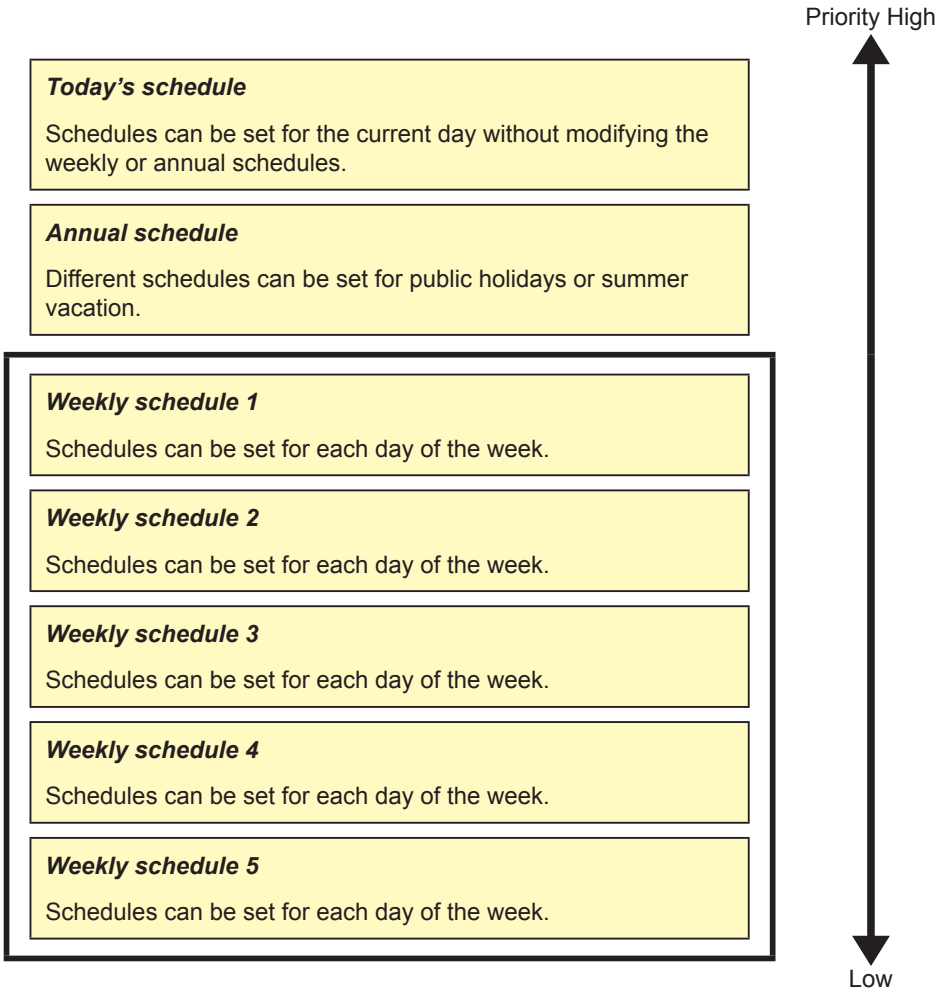




Note: The figure above shows the setting example of weekly schedules where the date period for each Weekly Schedule is set to the followings.
Weekly Schedule 1: Aug 1 - Aug 20
Weekly Schedule 2: Jun 16 - Sep 15
Weekly Schedule 3: Sep 16 - Nov 15
Weekly Schedule 4: Nov 16 - Mar 15
Weekly Schedule 5: Mar 16 - Jun 15

Note: When any of the Weekly Schedules 1, 2, 3, 4, and 5 overlap, the schedule with the lower number takes priority. For example, Weekly Schedule 1 takes precedence over Weekly Schedule 2.

Note: When the schedules overlap, schedule with the highest priority will run as shown below.



3-3-1. Weekly Schedule

Schedules can be set for each day of the week.

Note: When today's schedule and weekly schedule are set for the same day, today's schedule settings take precedence over weekly schedule settings.

Note: When the "Schedule: Season setting" setting is set to [Available] (default setting), weekly schedule date range settings can be configured. Be sure to set the "Schedule: Season setting" setting ([Available] or [Not Available]) with the TE-200. (Do not set with the expansion controller (TE-50/TW-50).) For the "Schedule: Season setting" setting, refer to the Instruction Book (Initial Settings).

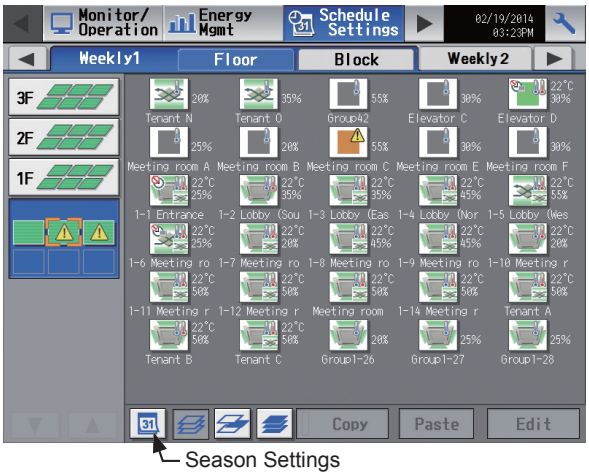
3-3-1-1. LCD

Touch [Schedule Settings] in the menu bar, and then touch [Weekly1], [Weekly2], [Weekly3], [Weekly4], or [Weekly5]. On the Weekly Schedule settings screen, schedules can be set for each day of the week.

[1] Setting the date periods

(1) Touch the "Season Settings" button on the [Floor] or [Block] display.

Note: For the Integrated Centralized Control Web, the setting is made on the "Date range setting" screen.



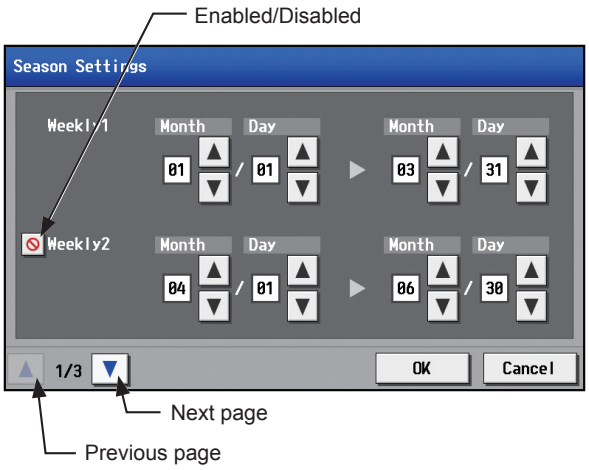
(2) Enter the date periods in which each weekly schedule will be effective.
Touch the "Enabled/Disabled" buttons on the left side to enable or disable each weekly schedule.

: Enabled
: Disabled (default)

Note: When any of the Weekly Schedules 1, 2, 3, 4, and 5 overlap, the schedule with the lower number takes priority. For example, Weekly Schedule 1 takes precedence over Weekly Schedule 2.

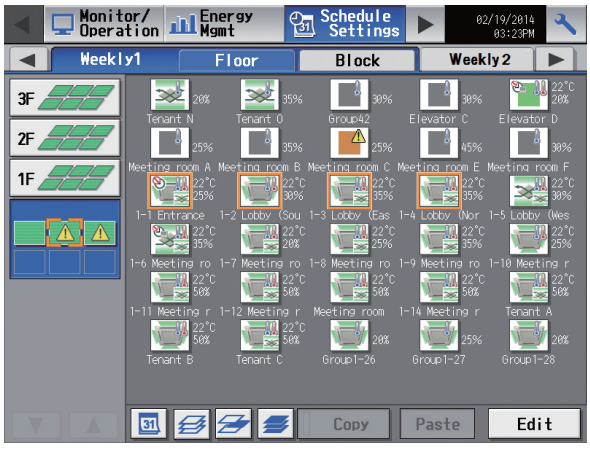
Note: The date period over the next year (such as 11/01 - 03/31) can be set.

Note: The settings made on this screen on the TE-200 will be reflected to the TE-50/TW-50.



[2] Selecting a target to which the schedule will be applied

(1) On the [Floor] or [Block] display, select a group(s), block(s), or floor(s) to which the schedule will be applied. (Refer to 3-1-4 "Selecting the icons of the groups to be operated" for details.)

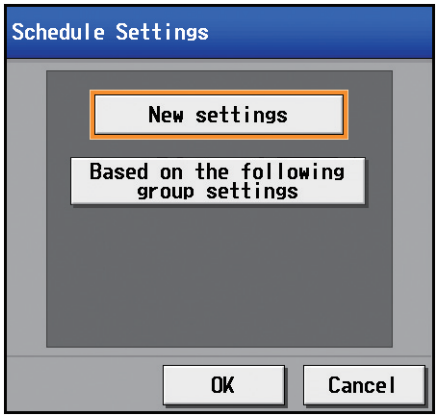


(2) If different equipment types exist together, a screen to select an equipment type will appear.
Touch one of the equipment types to set the schedule.



(3) A [Schedule Settings] screen will appear.
To create a schedule for the given block from scratch, touch [New settings] and touch [OK].
To create a schedule based on the existing setting of another group, touch [Based on the following group settings], select the name of the group whose schedule is to be based on, and touch [OK]. The contents of the schedule that have been set for the selected group will appear in the “Contents of Schedule” section on the screen that will appear next.

Note: [Based on the following group settings] cannot be selected when the operation group contains both free-plan units and outlet air temperature control units.

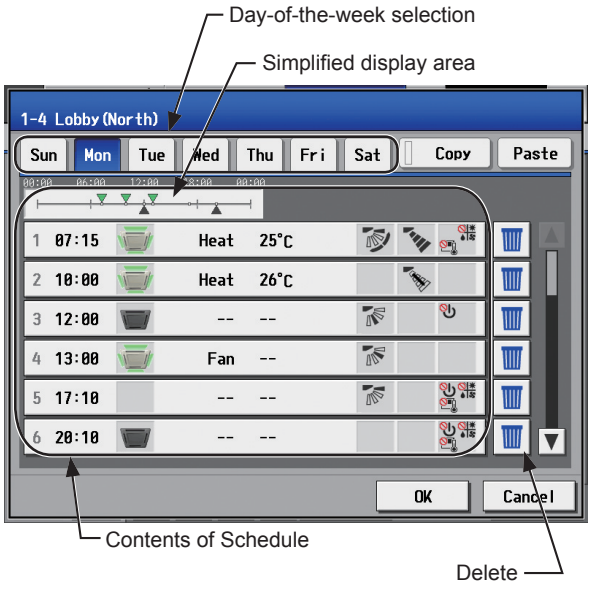


[3] Selecting a day of the week

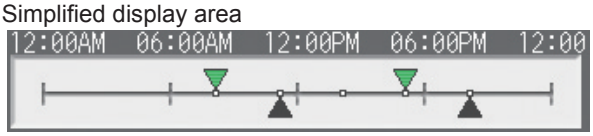
(1) Touch the day to set the schedule.
The icons of the events that have been set for the selected group will appear in the “Contents of Schedule” section.

Icons in the simplified display area
: ON
: OFF
: Other scheduled events

Note: To delete each scheduled events, touch the “Delete” button in the row of the schedule to be deleted.



Simplified display area



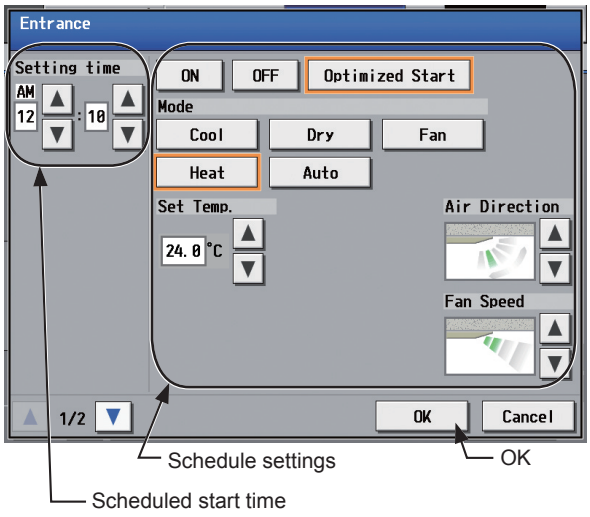
[4] Setting the contents of the schedule

(1) Touch the row of the schedule to be set in the “Contents of Schedule” section to display the schedule settings screen.
Set the start time to apply to the schedule, set the operations to be scheduled, and then touch [OK].

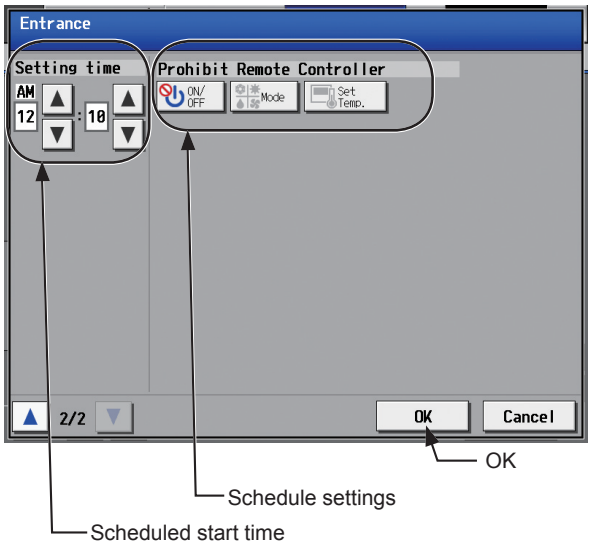
Note: If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well.

To copy the schedule settings between groups, see [7] below.
To copy the schedule settings between days of the week, see [5] below.

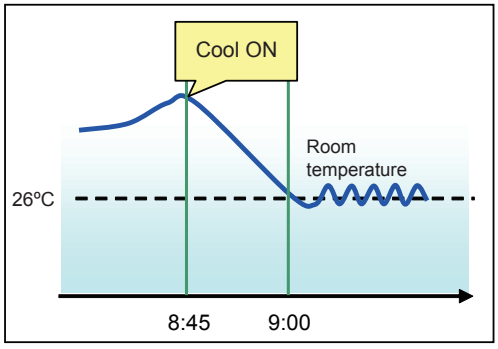
1st page (Air conditioning unit group)



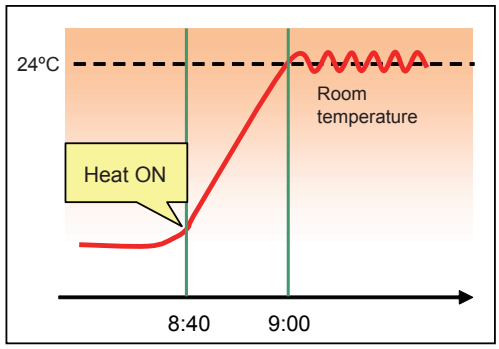
2nd page (Air conditioning unit group)



Note: About Optimized Start function



Operation mode: Cool
Start time: 9:00
Set temperature: 26°C



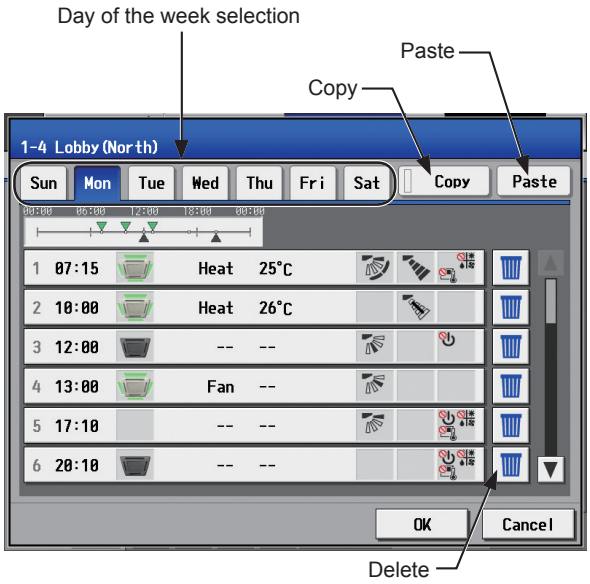
Operation mode: Heat
Start time: 9:00
Set temperature: 24°C

- If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well. The Optimized Start function will start the units 5 to 60 minutes prior to the scheduled start time to reach the set temperature at the scheduled start time, based on the operation data in the past. (When the units start the first time after a power reset, the units will start operation 30 minutes before the scheduled start time.)
- [Optimized Start] can be selected for air conditioning units and Air To Water units, but cannot be selected for the outlet air temperature control units.
- 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. The temperature shown may be higher than the actual temperature especially when the unit is stopped during the Heat mode. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.
- If [Optimized Start] is selected and the [Prohibit Remote Controller] setting is set to Prohibit or Permit at the same time, the operations from the remote controllers will be prohibited or permitted at the scheduled start time.

[5] Copying a schedule to another day of the week

(1) To copy the schedule settings of a day to the schedule settings for another day of the week, select the day whose schedule settings are to be copied, touch [Copy], select the day to which the copied schedule settings are to be pasted, and touch [Paste].

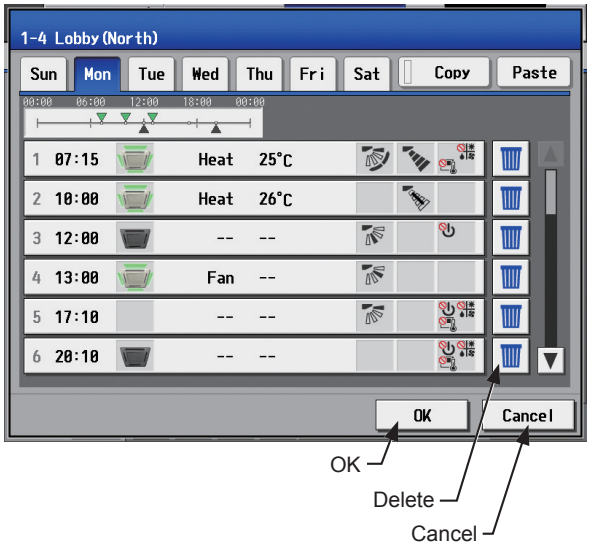
Note: To delete each scheduled events, touch the “Delete” button in the row of the schedule to be deleted.



[6] Saving the schedules

(1) To undo the changes made, touch [Cancel] before saving the schedules.
After completing the settings, touch [OK] to save the schedules.

Note: To delete each scheduled events, touch the “Delete” button in the row of the schedule to be deleted.

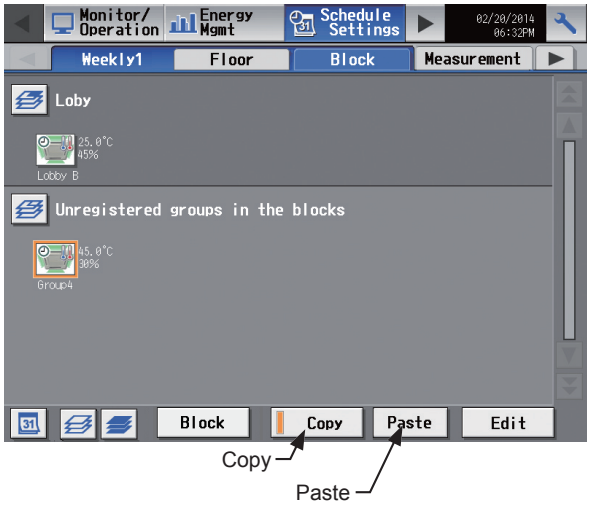


[7] Copying a schedule to another group

(1) To copy the schedule settings of a group to the schedule settings for another group, select the group whose schedule settings are to be copied, touch [Copy], select the group to which the copied schedule settings are to be pasted, and touch [Paste].

Note: Schedules of a group cannot be copied to a different type of group. For example, the schedules of an air conditioning unit group cannot be copied to the schedules for a LOSSNAY unit group.

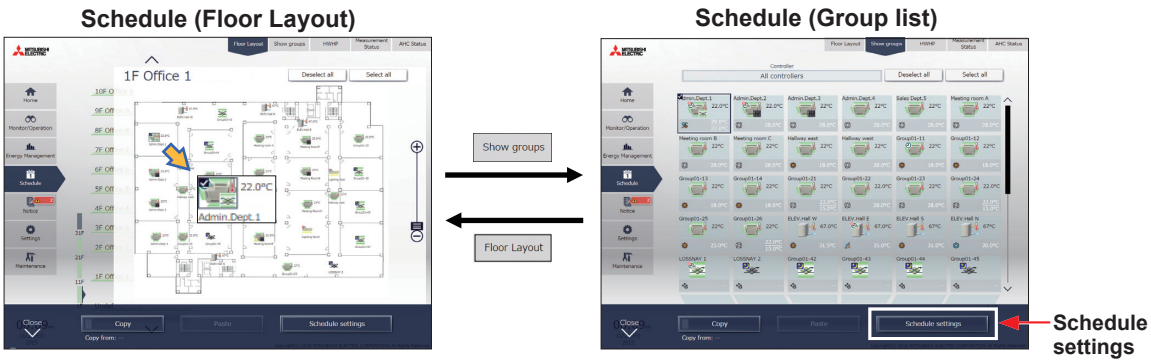
Note: The operation mode and set temperature may not be copied because the available operation modes or operable set temperature range differ among the units. When the group whose operation mode is set to “Optimized Start” is copied to the outlet air temperature control unit, the operation ON/OFF setting will be “ON.”



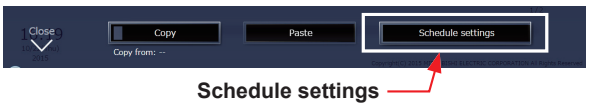
3-3-1-2. Integrated Centralized Control Web

[1] Selecting a target to which the schedule will be applied

In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied, and click [Schedule settings]. A screen to set a schedule for the selected group(s) will appear.
Refer to section 3-1-4 “Selecting the icons of the groups to be operated” for how to select group icons.



(1) Select a group icon(s) to which the schedule will be applied, and click [Schedule settings] in the taskbar.



(2) If different equipment types exist together, a screen to select an equipment type will appear.
Select one of the equipment types to set the schedule.

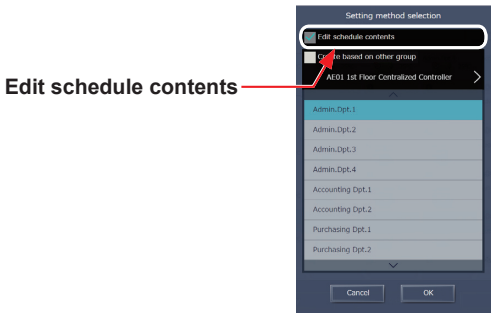


(3) Select a setting method.

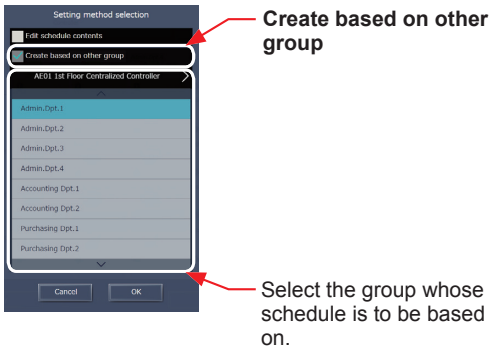
(A) To create a new schedule or to edit an existing schedule, click [Edit schedule contents] and click [OK].

(B) To create a schedule based on the existing setting of other group, select [Create based on other group], select the group whose schedule is to be based on, and click [OK]. The contents of the schedule that have been set for the selected group will appear on the screen that will appear next.

(A) Creating newly or editing



(B) Creating based on the setting of other group



Note: If the group whose schedule is to be based on has no schedule settings, no contents of the schedule will appear on the screen that will appear next.

[2] Setting the date range for each schedule

Five types of weekly schedules can be set. (One year is divided into the maximum of five periods.)

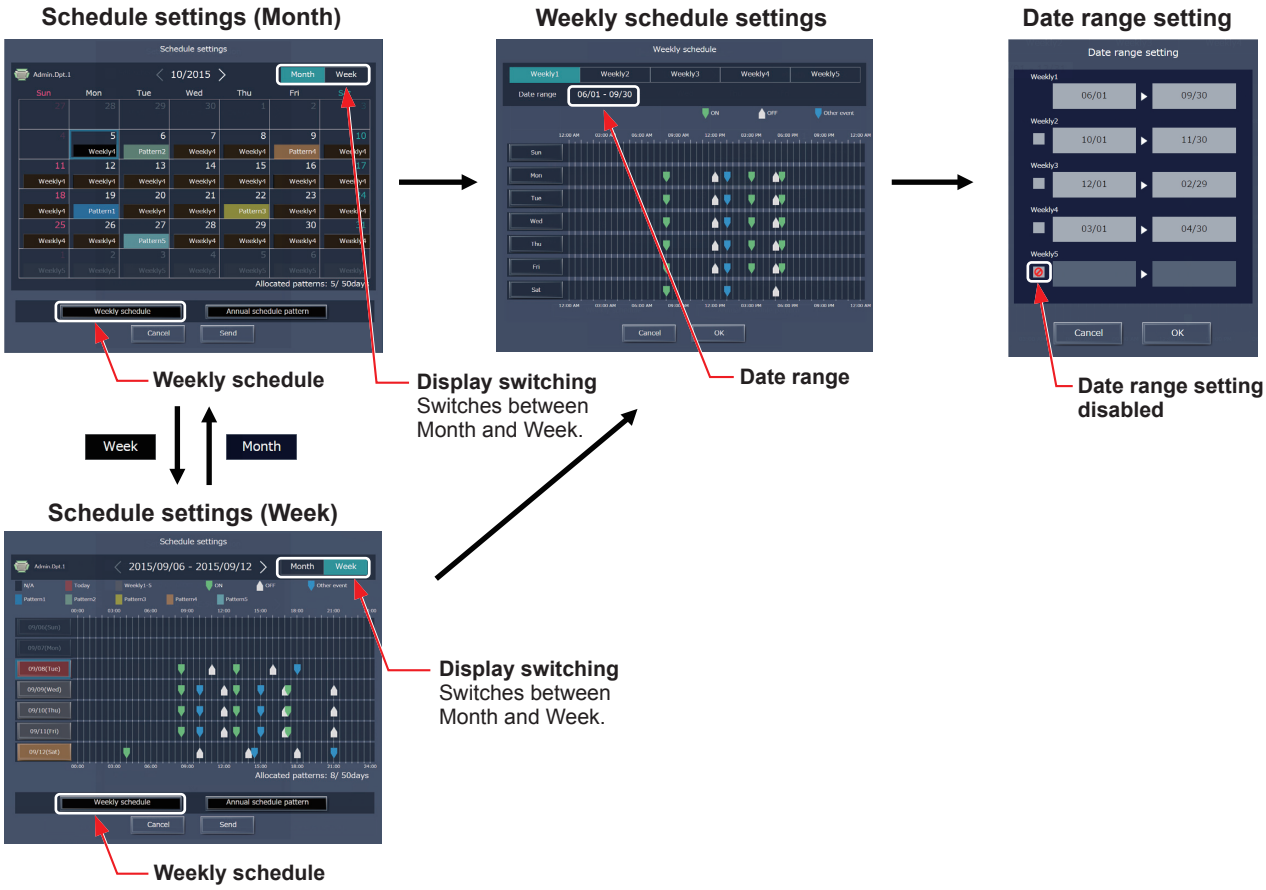
Note: This setting is “Season Settings” on the LCD.

Note: The weekly schedule date ranges are set for each centralized controller (TE-200/TE-50/TW-50). When the weekly schedule date ranges are set with Integrated Centralized Control Web, the same settings will be sent to all the centralized controllers that are control targets of Integrated Centralized Control Web.

(1) In the Schedule settings screen (Month or Week display), click [Weekly schedule].

(2) In the Weekly schedule settings screen, click [Date range].

(3) In the date range settings screen, enter the date ranges in which each weekly schedule (Weekly 1 to 5) will be effective.



Note: On the date range setting screen, check the checkbox ( ) to disable the date range setting of the checked weekly schedule.

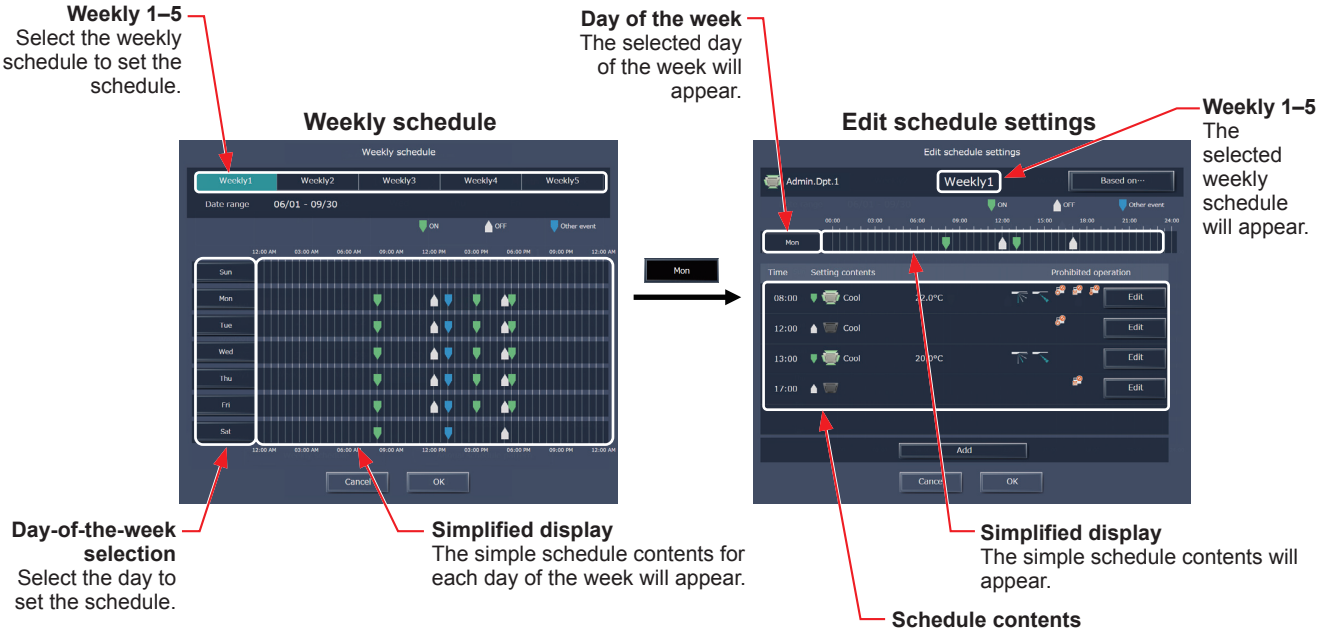
Note: If the “Schedule: Season setting” setting is set to “Not Available” in the initial settings, the date range settings cannot be used. For initial settings, refer to the Instruction Book (Initial Settings).

[3] Selecting a day of the week

Schedules can be set for each day of the week for each weekly schedule (Weekly 1 to 5).

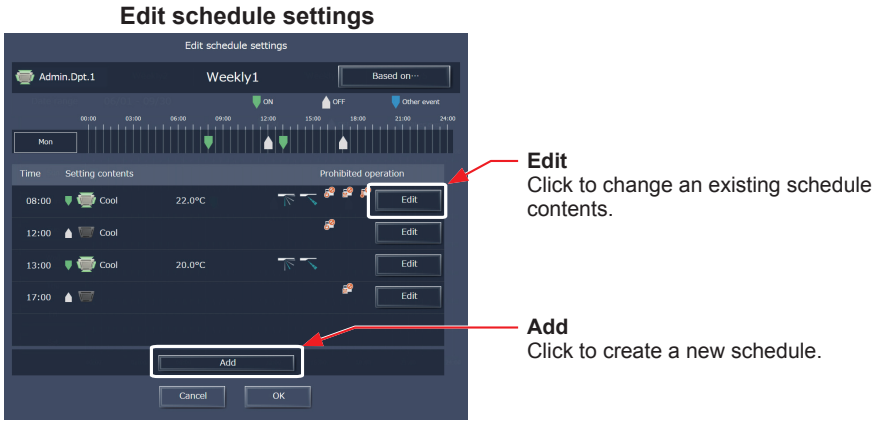
(1) In the Schedule settings screen, select one of the weekly schedule (Weekly 1 to 5).

(2) Click the day to set the schedule.
A screen to edit the schedules of the selected weekly schedule and the selected day of the week will appear.

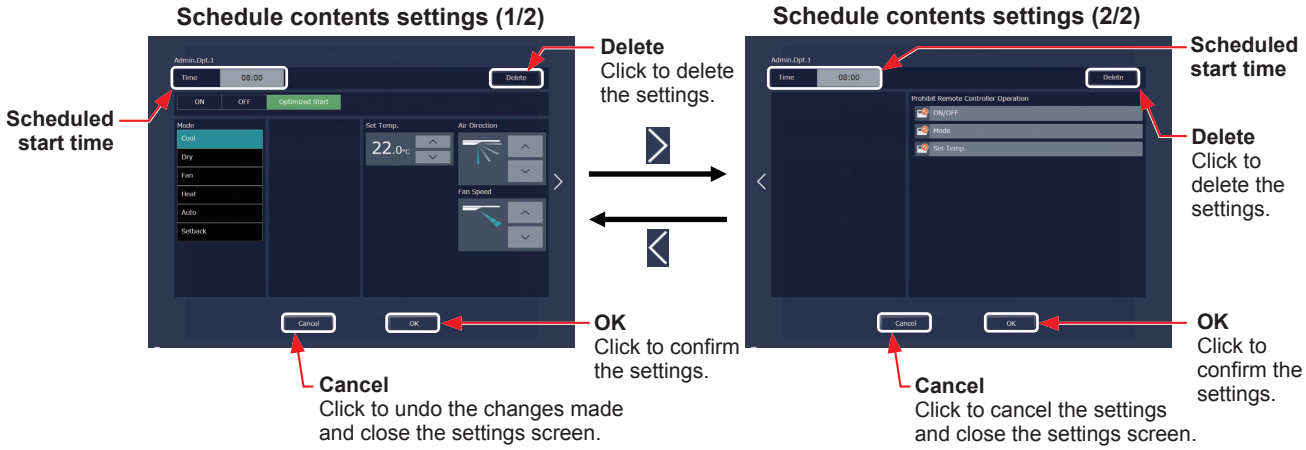


[4] Creating or changing the schedule contents

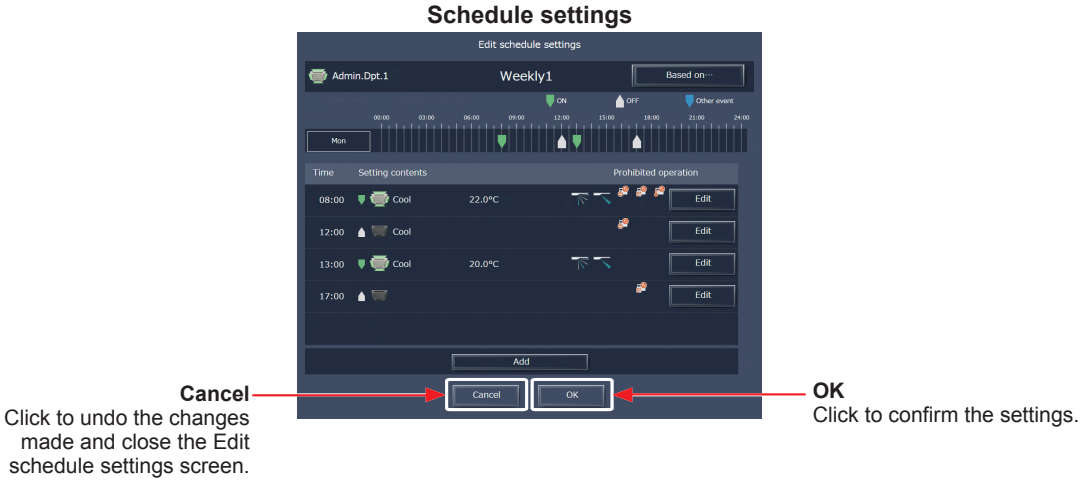
(1) In the Edit schedule settings screen, click [Add] to create a new schedule, or click [Edit] to change an existing schedule. A schedule contents settings screen will appear.



(2) In the schedule contents settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well.



(3) After all schedule settings are completed, click [OK] on the Edit schedule settings screen.

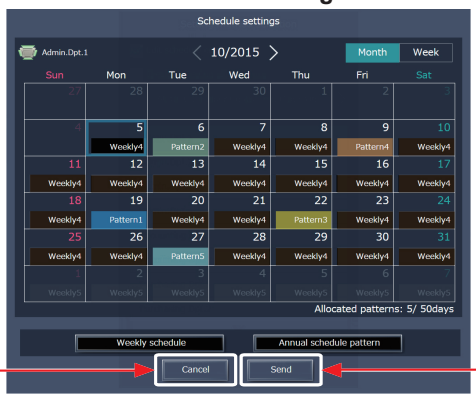


Note: When setting a schedule for a block or all groups collectively, all operation modes are available for selection, but the available operation modes depend on the unit model. The units will not operate in the selected mode not supported by the units.
Note: No need to set schedules for all operations. Set one or more necessary operations.
Note: The operation items that will appear on the screen vary, depending on the equipment type.
Note: For details about settings of each operation, refer to section 3-1-5 “Operation settings screen”.

[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].

Schedule settings



Cancel
Click to undo the changes made and close the Schedule settings screen.

Send
Click to save the settings.

Note: Clicking [Send] will send the schedule settings to the centralized controllers (TE-200/TE-50/TW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

[6] Copying existing settings of other group

The schedule settings can be copied among groups.

(1) In the Floor Layout screen or group list, select the group whose schedule settings are to be copied, and then click [Copy] in the taskbar.

(2) The schedule contents of the selected group will be copied, and the group icon will appear with an orange frame.

(3) Select the group to which the copied schedule settings are to be pasted, and click [Paste].
The name of the group whose schedule settings have been copied appears under the [Copy] button.

• Floor Layout screen

Procedure (1)



Copy
Click to copy the schedule contents of the selected group.

Group icon
Select the group whose schedule settings are to be copied.

Procedure (2)



Copied
The group icon will appear with an orange frame.

Procedure (3)

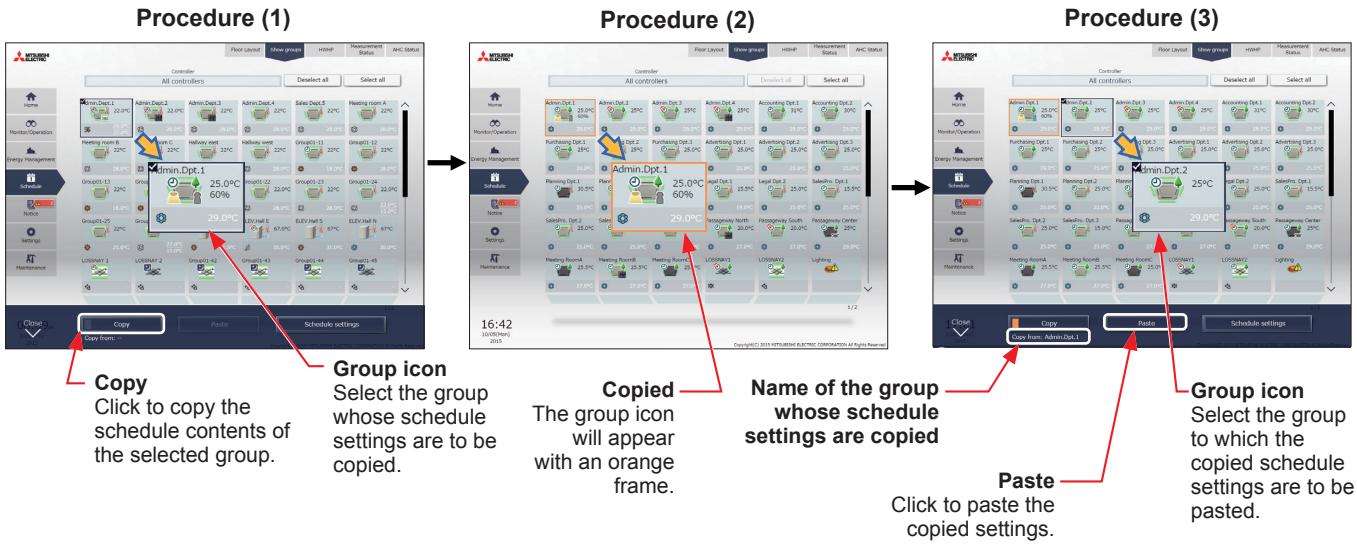


Name of the group whose schedule settings are copied

Paste
Click to paste the copied settings.

Group icon
Select the group to which the copied schedule settings are to be pasted.

• Group list



Note: Schedules of a group may not be precisely copied to a different type of group. When the group whose operation mode is set to "Optimized Start" is copied to the outlet air temperature control unit, the operation ON/OFF setting will be "ON."

[7] Creating a schedule based on existing settings of other day of the week

When setting schedules for each day of the week for weekly schedule, the schedule settings can be created based on existing settings of other day of the week.

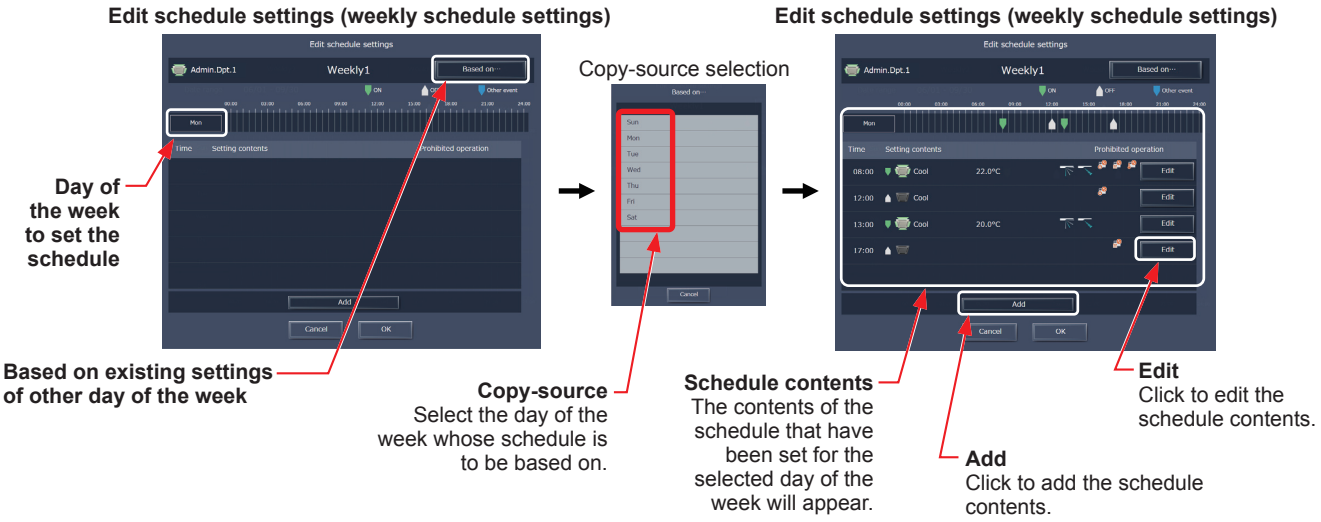
(1) In the Edit schedule settings screen, click [Based on...].

(2) In the [Based on...] screen, select the pattern or the day of the week whose schedule is to be based on.

(3) The contents of the schedule that have been set for the selected pattern or the day of the week will appear in the Edit schedule settings screen.

(4) Add or change the schedule contents, if necessary.

• Weekly schedule



3-3-2. Annual Schedule

On the Annual Schedule settings screen, schedules can be set for public holidays or summer vacation.
Up to five operation patterns (Pattern A through E) can be set for the 24 months including the current month, and total of 50 days can be allocated to the patterns.

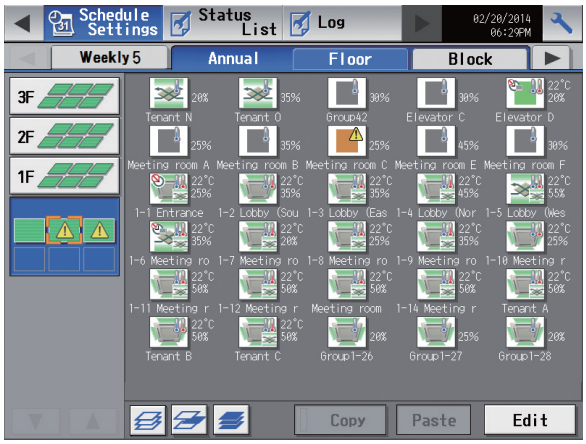
Note: When today's schedule and annual schedule are set for the same day, today's schedule settings take precedence over annual schedule settings.

3-3-2-1. LCD

Touch [Schedule Settings] in the menu bar, and then touch [Annual].

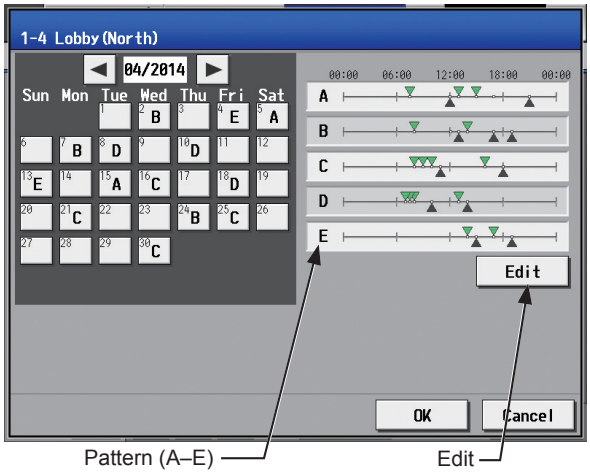
[1] Selecting a target to which the schedule will be applied

(1) On the [Floor] or [Block] display, select a group(s), block(s), or floor(s) to which the schedule will be applied. (Refer to 3-1-4 "Selecting the icons of the groups to be operated" for details.)



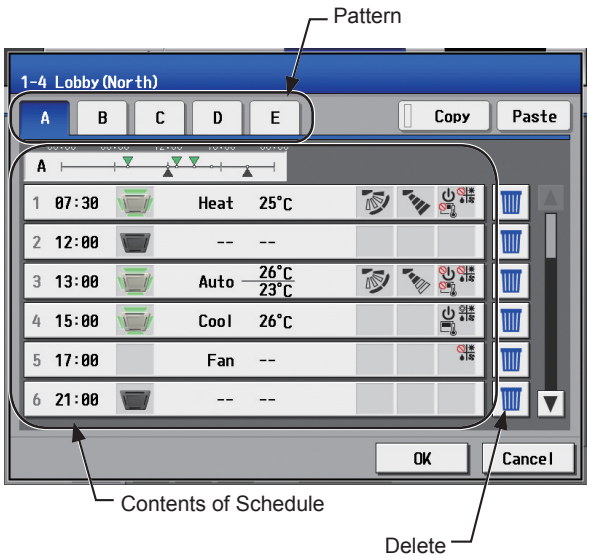
[2] Selecting a schedule pattern

(1) Touch a pattern or [Edit] to display the pattern settings screen.



(2) Touch a pattern tab to set the schedule.

Note: To delete each scheduled events, touch the "Delete" button in the row of the schedule to be deleted.



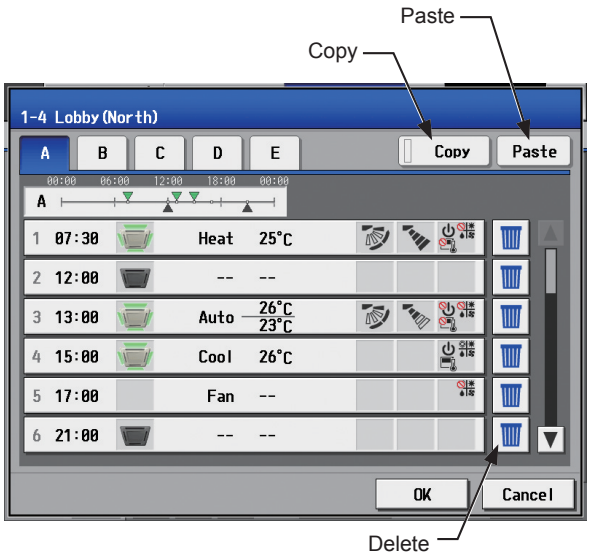
[3] Setting the contents of the schedule

(1) Touch the row of the schedule to be set in the “Contents of Schedule” section to display the schedule settings screen.
Set the start time to apply to the schedule, set the operations to be scheduled, and then touch [OK]. (Refer to section 3-3-1-1 [4] “Setting the contents of the schedule” for details.)

[4] Copying a schedule to another pattern

(1) To copy the schedule settings of a pattern to the schedule settings for another pattern, select the pattern whose schedule settings are to be copied, touch [Copy], select the pattern to which the copied schedule settings are to be pasted, and touch [Paste].

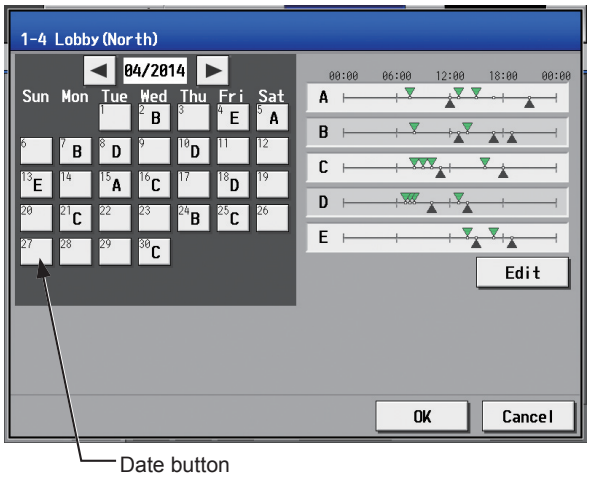
Note: To delete each scheduled events, touch the “Delete” button in the row of the schedule to be deleted.



[5] Assigning schedule patterns to special dates

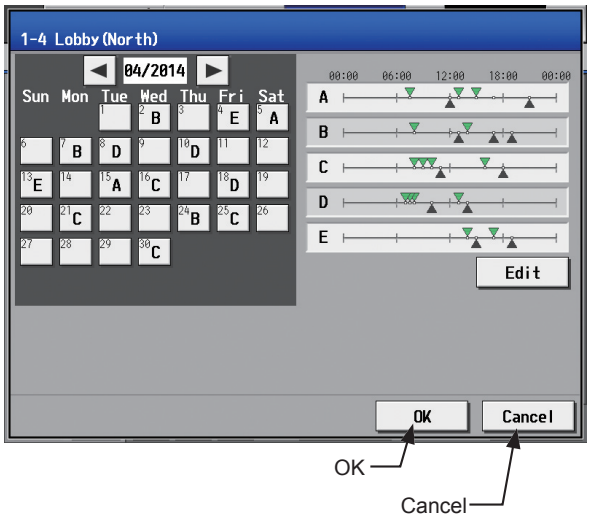
(1) Each schedule pattern can be assigned to the specified dates.
The date buttons will appear with the alphabet of the pattern that has been assigned.
Touching the date buttons toggles through the following options: A, B, C, D, E, and blank.

To cancel the pattern assignment, select blank.



[6] Saving the schedules

(1) To undo the changes made, touch [Cancel] before saving the schedules.
After completing the settings, touch [OK] to save the schedules.



[7] Copying a schedule to another group

(1) Refer to 3-3-1-1 [7] “Copying a schedule to another group” for details.

3-3-2-2. Integrated Centralized Control Web

[1] Selecting a target to which the schedule will be applied

(1) In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied.
Refer to 3-3-1-2 [1] “Selecting a target to which the schedule will be applied” for details.

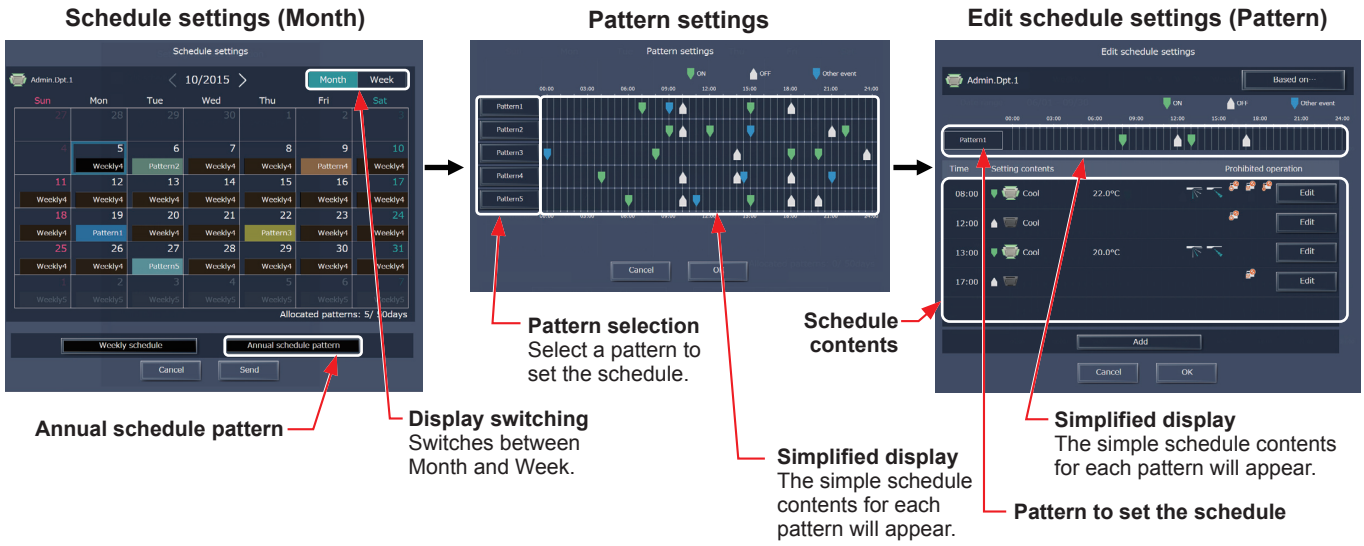
[2] Selecting a schedule pattern

Up to five operation patterns can be set.

(1) In the Schedule settings screen (Month or Week display), click [Annual schedule pattern].

(2) In the pattern settings screen, select a schedule pattern to set the schedule.

(3) An Edit schedule settings screen will appear.



[3] Creating or changing the schedule contents

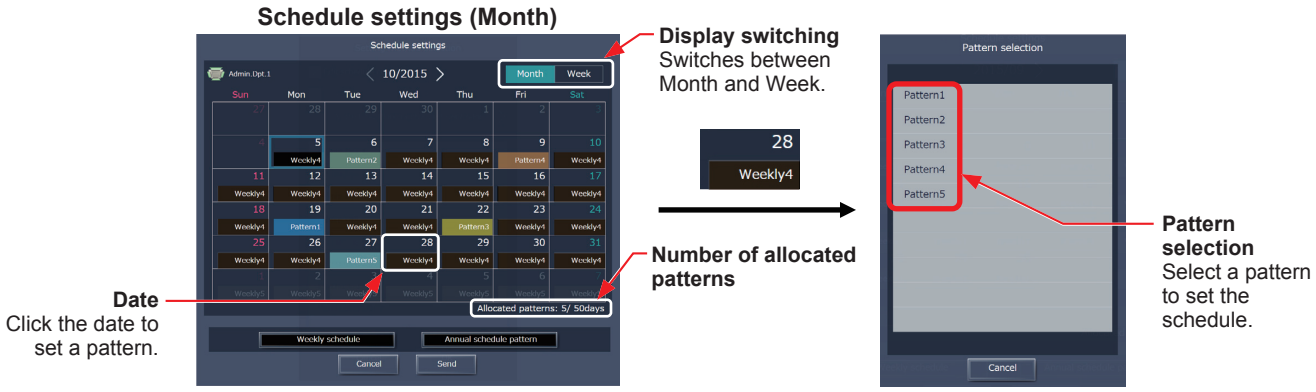
(1) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to 3-3-1-2 [4] “Creating or changing the schedule contents” for details.

[4] Allocating schedule patterns to special dates

Each schedule pattern can be allocated to the specified dates such as public holidays and summer vacation.

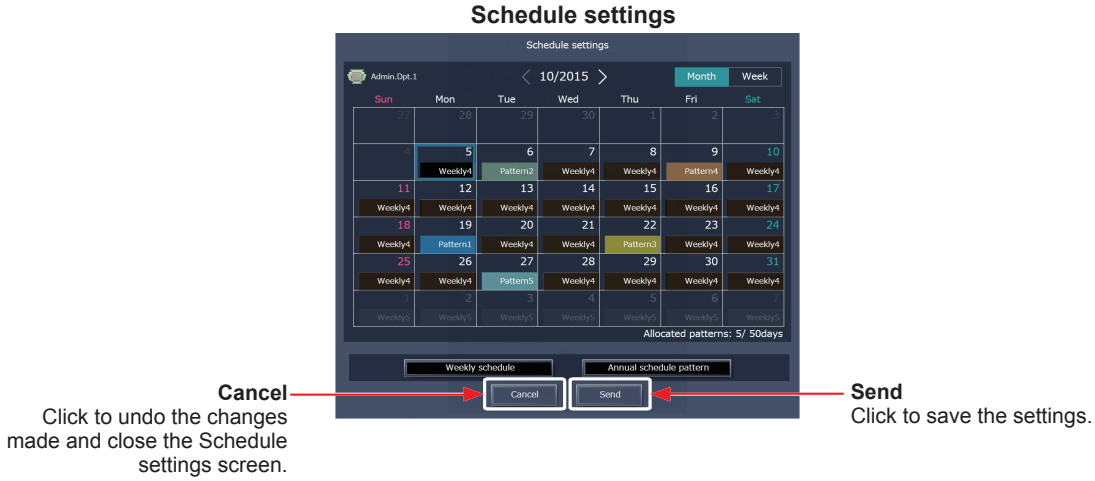
(1) In the Schedule settings screen (Month or Week display), click the date to set a pattern.

(2) Select the pattern to be allocated to the selected date.



[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].



Note: Clicking [Send] will send the schedule settings to the centralized controllers (TE-200/TE-50/TW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

[6] Copying existing settings of other group

(1) The annual schedule settings can be copied among groups.
Refer to 3-3-1-2 [6] “Copying existing settings of other group” for details.

[7] Creating a schedule based on existing settings of other pattern

When setting annual schedule patterns, the schedule settings can be created based on existing settings of other pattern.

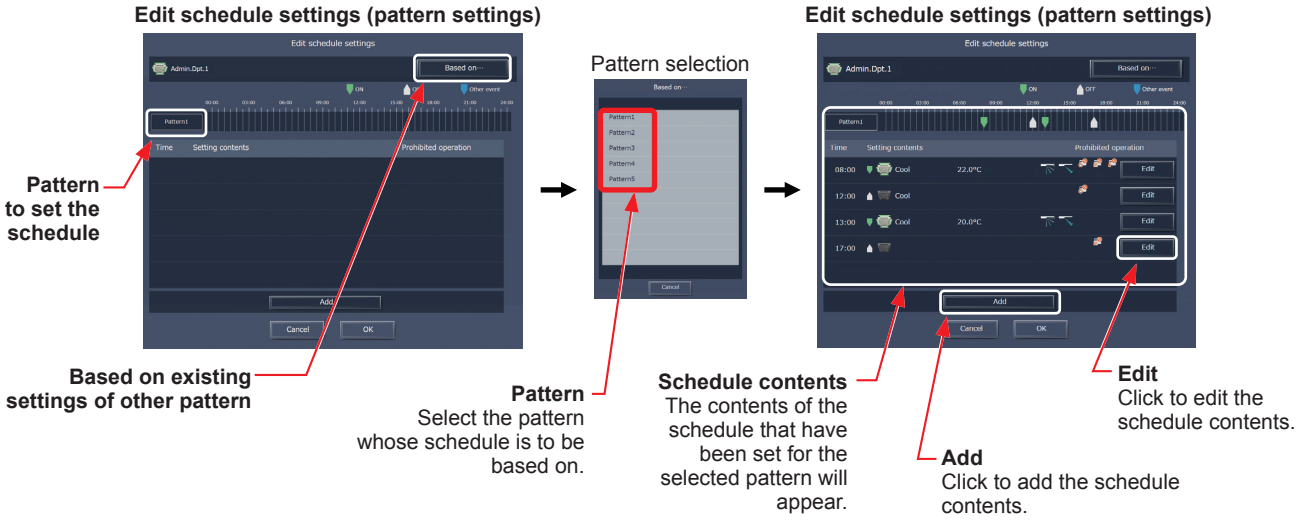
(1) In the Edit schedule settings screen, click [Based on...].

(2) In the [Based on...] screen, select the pattern or the day of the week whose schedule is to be based on.

(3) The contents of the schedule that have been set for the selected pattern or the day of the week will appear in the Edit schedule settings screen.

(4) Add or change the schedule contents, if necessary.

• Annual schedule



3-3-3. Today's Schedule

On the Today's Schedule settings screen, schedules can be set for the current day without modifying the weekly or annual schedules.

Note: Be sure to set the contents of schedule in a way that will not impact on the next day's operation. For example, if Prohibit setting of remote controller operation is made for any time such as 17: 00, Permit setting needs to be made for any time before the date changes such as 23: 59.

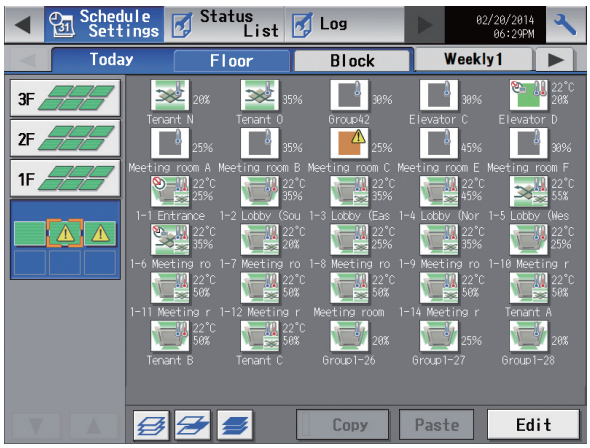
Note: Even if the today's schedule for a given day is deleted, the weekly or annual schedule set for the day will not run.

3-3-3-1. LCD

Touch [Schedule Settings] in the menu bar, and then touch [Today].

[1] Selecting a target to which the schedule will be applied

(1) On the [Floor] or [Block] display, select a group(s), block(s), or floor(s) to which the schedule will be applied. (Refer to 3-1-4 "Selecting the icons of the groups to be operated" for details.)



[2] Setting the contents of the schedule

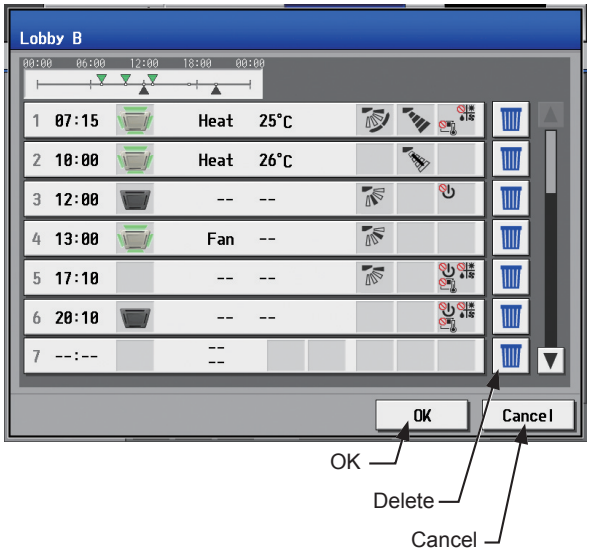
(1) Touch the row of the schedule to be set in the "Contents of Schedule" section to display the schedule settings screen.
Set the start time to apply to the schedule, set the operations to be scheduled, and then touch [OK]. (Refer to section 3-3-1-1 [4] "Setting the contents of the schedule" for details.)

[3] Saving the schedules

To undo the changes made, touch [Cancel] before saving the schedules.
After completing the settings, touch [OK] to save the schedules.

Note: To delete each scheduled events, touch the "Delete" button in the row of the schedule to be deleted.

Note: If no schedule setting is made and [OK] is touched, the weekly or annual schedules for the same day will not be performed.



[4] Copying a schedule to another group

(1) Refer to 3-3-1-1 [7] "Copying a schedule to another group" for details.

3-3-3-2. Integrated Centralized Control Web

[1] Selecting a target to which the schedule will be applied

(1) In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied.
Refer to 3-3-1-2 [1] “Selecting a target to which the schedule will be applied” for details.

[2] Setting or changing the contents of the schedule

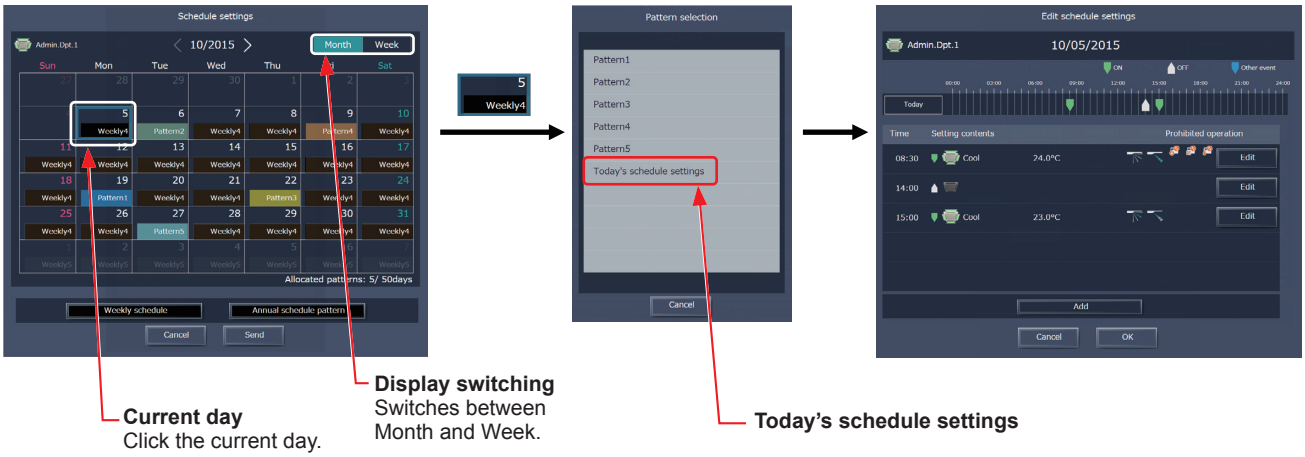
(1) In the Schedule settings screen (Month or Week display), click the date of the current day.
The current day is displayed with a blue frame.

(2) Click [Today’s schedule settings].

(3) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to 3-3-1-2 [4] “Creating or changing the schedule contents” for details.

Note: In the Schedule settings screen, “Today” (5 Today) is displayed on the date of the current day to which Today’s schedule is set.

Schedule settings (Month) **Edit schedule settings (Today)**



[3] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].

Schedule settings



Note: Clicking [Send] will send the schedule settings to the centralized controllers (TE-200/TE-50/TW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

[4] Copying existing settings of other group

(1) The today’s schedule settings can be copied among groups.
Refer to 3-3-1-2 [6] “Copying existing settings of other group” for details.

3-4. Status List

3-4-1. Malfunction List

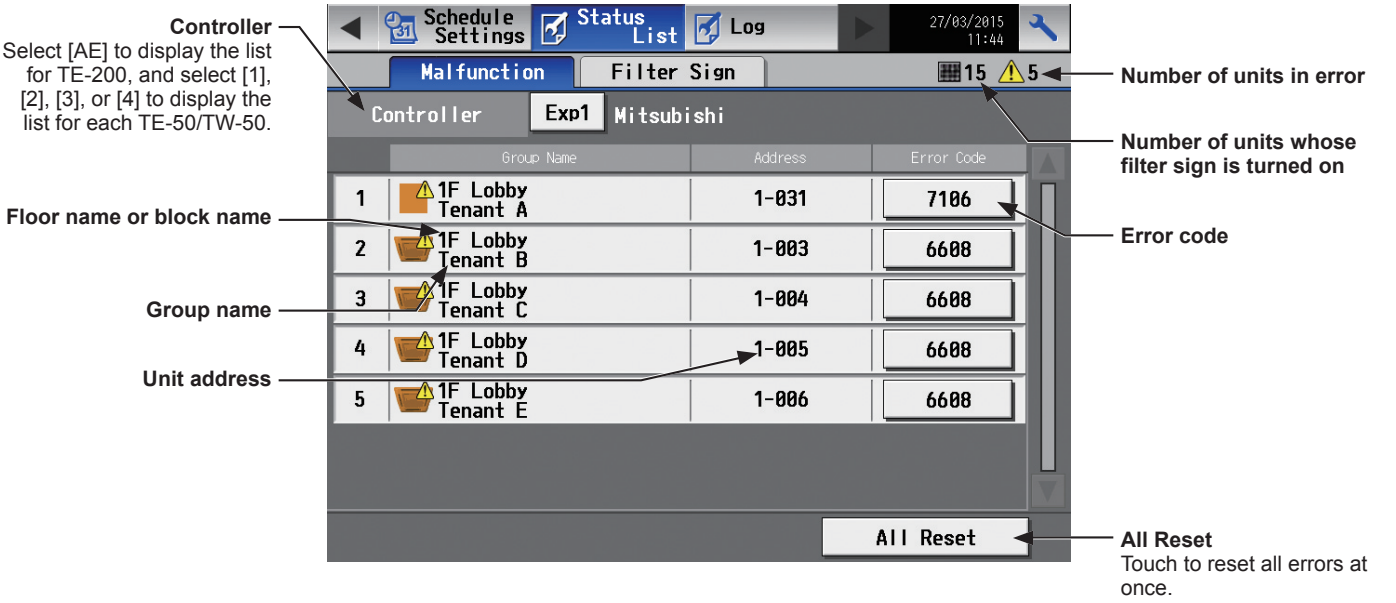
3-4-1-1. LCD

Touch [Status List] in the menu bar, and then touch [Malfunction].

A list of units that are currently malfunctioning will appear.

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to display the list for each TE-200, TE-50, and TW-50 individually.

Note: When an error occurs, check the address of the unit in error, error code and its definition, and then contact your dealer.



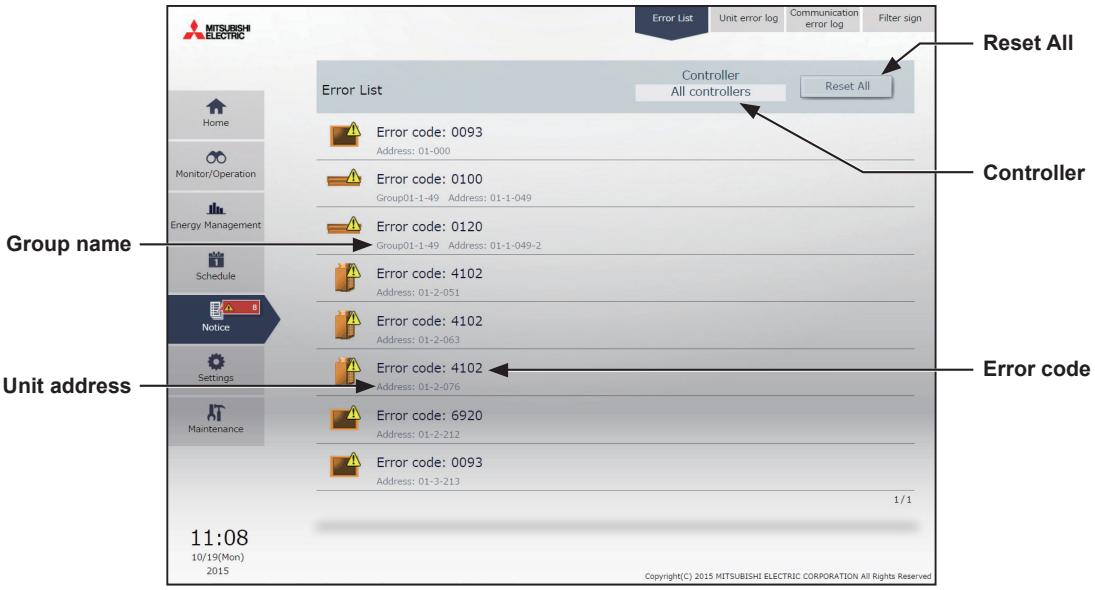
Item	Description
Floor name or block name	The name of the floor or the block that the unit in error belongs to will appear. Note: This area will be blank if the unit in error is a unit such as an outdoor unit or a system controller. Note: This area will be blank if the unit in error is a unit that does not belong to any block or floor.
Group name	The name of the group that the unit in error belongs to will appear. Note: This area will be blank if the unit in error is a unit such as an outdoor unit or a system controller.
Unit address	The address of the unit in error will appear. Note: When [1], [2], [3], or [4] is selected as [Controller], TE-50/TW-50 No. and unit address will appear. (When the TE-50/TW-50 No. is 1 and the unit address is 012, "1-012" will appear.)
Number of units in error	The number of malfunctioning units will appear.
Error code	The error code that corresponds to the error will appear. Touch the error code to display the definition. 
All Reset	Touch to reset all errors at once. Note: The units whose error has been reset will stop. Note: When the errors are reset, the units that are not in error may stop. Refer to the Instruction Book (Detailed operations) for details. Note: A message "Resetting" may be displayed while the error is being reset.

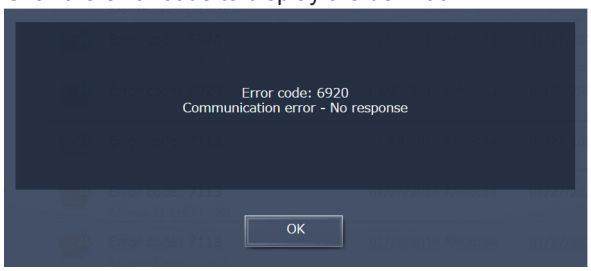
3-4-1-2. Integrated Centralized Control Web

Click [Notice] in the menu, and then click [Error List] to access the Error List screen.

A list of units that are currently malfunctioning will appear.

Note: When an error occurs, check the address of the unit in error, error code and its definition, and then contact your dealer.



Item	Description
Controller	Display target units can be narrowed down by selecting a centralized controller.
Group name	The name of the group that the unit in error belongs to will appear. Note: The group name will not be displayed if the unit in error is a unit such as an outdoor unit or a system controller.
Unit address	The centralized controller No. and address of the unit in error will appear.
Error code	The error code that corresponds to the error will appear. Click the error code to display the definition. 
Reset All	Click to reset the errors at once. Note: The units whose error has been reset will stop. Note: Only the errors of the centralized controller selected in [Controller] will be reset.

* The units that are not in error may stop when errors are reset. Refer to the AE-200/AE-50 Instruction Book (Detailed operations) for details.

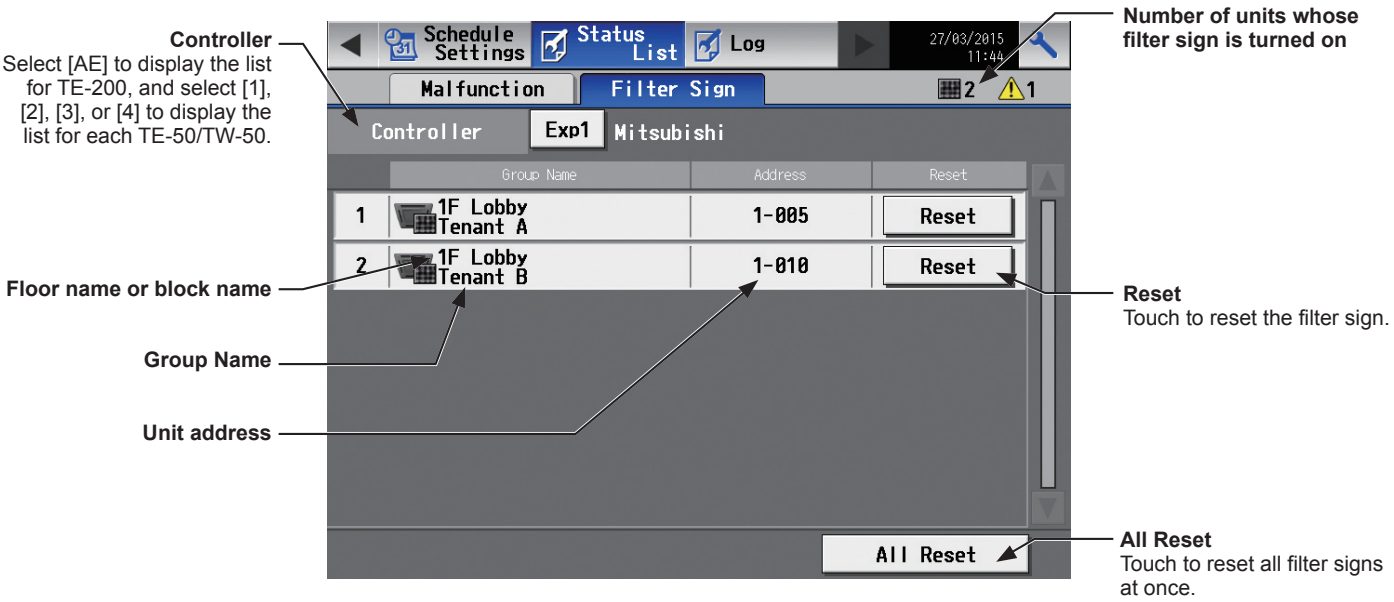
3-4-2. Filter Sign List

3-4-2-1. LCD

A list of units whose filter sign is turned on can be displayed.

Touch [Status List] in the menu bar, and then touch [Filter Sign].

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to display the list for each TE-200, TE-50, and TW-50 individually.

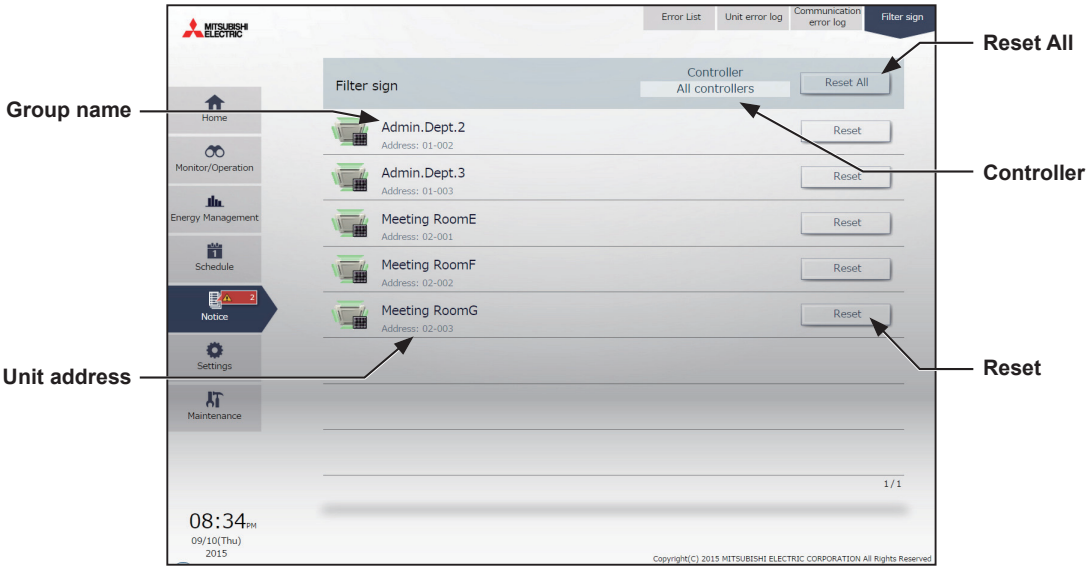


Item	Description
Number of units whose filter sign is turned on	The number of units whose filter sign is currently turned on will appear.
Floor name or block name	The name of the floor or the block that the unit whose filter sign is turned on belongs to will appear. Note: This area will be blank if the unit whose filter sign is turned on does not belong to any floor or block.
Group name	The name of the group that the unit belongs to will appear.
Unit address	The address of the unit whose filter sign is turned on will appear. Note: When [1], [2], [3], or [4] is selected as [Controller], TE-50/TW-50 No. and unit address will appear. (Example: 1-012)
Reset	Touch to reset each filter sign. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers. (When the filter sign is reset from the local remote controllers, it takes up to an hour to clear the filter sign display on the TE-200/TE-50's LCD.) Note: A message "Resetting" may be displayed while the filter sign is being reset.
All Reset	Touch to reset all filter signs at once. Note: Reset the filter signs after cleaning the filters. Note: After the filter signs are reset, it takes up to an hour to clear the filter sign display on the local remote controllers. (When the filter signs are reset from the local remote controllers, it takes up to an hour to clear the filter sign display on the TE-200/TE-50's LCD.) Note: A message "Resetting" may be displayed while the filter sign is being reset.

3-4-2-2. Integrated Centralized Control Web

A list of units whose filter sign is turned on can be displayed.

Click [Notice] in the menu, and then click [Filter sign] to access the Filter sign screen.



Item	Description
Controller	Display target unit groups can be narrowed down by selecting a centralized controller.
Group name	The name of the group that the unit whose filter sign is turned on belongs to will appear.
Unit address	The centralized controller No. and address of the unit whose filter sign is turned on will appear.
Reset	Click to reset the filter sign of the group that the unit whose filter sign is turned on belongs to. Note: Reset the filter sign after cleaning the filter. Note: To clear the cumulative filter usage time on the unit on which the filter sign is not indicated, do so from the Advanced settings screen. Refer to the AE-200/AE-50/ EW-50 Instruction Book (Integrated Centralized Control Web) for details.
Reset All	Click to reset all filter signs of the centralized controller selected in [Controller] at once. Note: Reset the filter sign after cleaning the filter. Note: After the filter signs are reset, it takes up to an hour to clear the filter sign display on the local remote controllers. When the filter signs are reset from the local remote controllers, it takes up to an hour to clear the filter sign display on this screen.

3-5. Malfunction Log

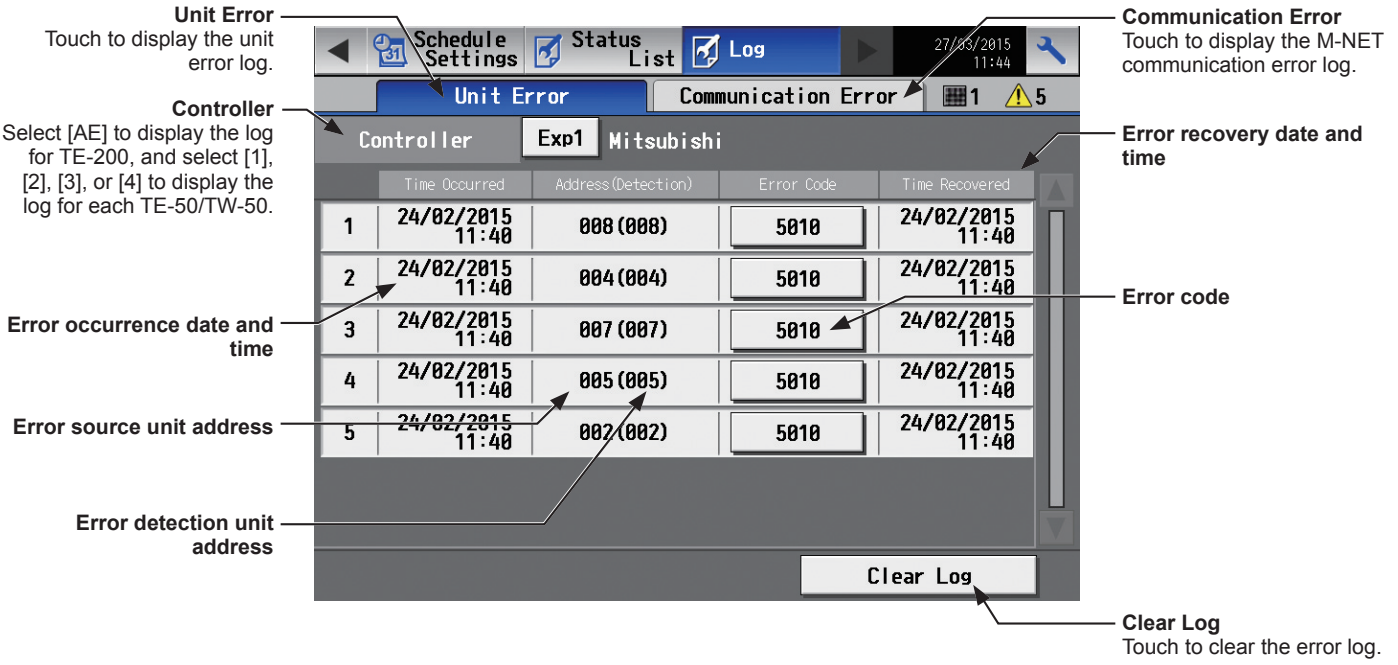
3-5-1. Unit Error/Communication Error

3-5-1-1. LCD

Touch [Log] in the menu bar, and then touch [Unit Error] to display unit errors, or touch [Communication Error] to display M-NET communication errors.

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to display the log for each TE-200, TE-50, and TW-50 individually.

Note: If there is no error occurred, no error log will appear.



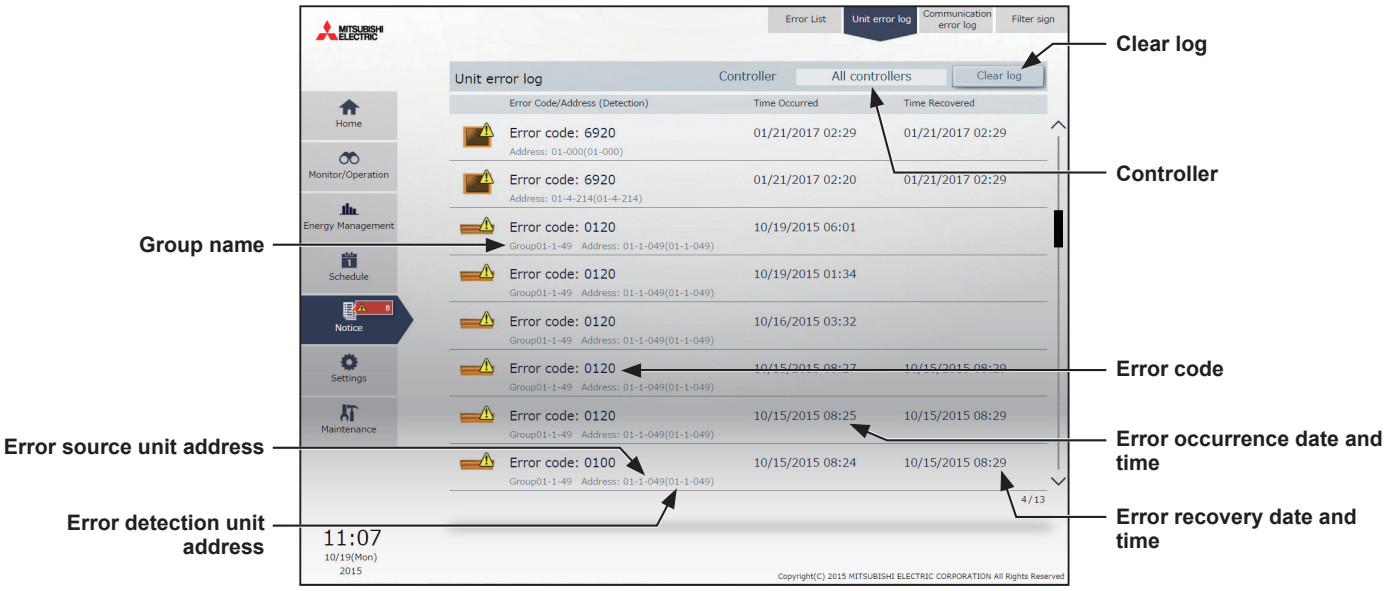
Item	Description
Unit Error	Touch to display the unit error log. Note: The latest 64 unit errors will appear for each TE-200/TE-50/TW-50.
Communication Error	Touch to display the M-NET communication error log. Note: The latest 64 communication errors will appear for each TE-200/TE-50/TW-50.
Clear Log	Touch to clear the error log.
Error occurrence date and time	The date and time when the error occurred will appear.
Error source unit address	The address of the unit in error will appear. Note: When [1], [2], [3], or [4] is selected as [Controller], TE-50/TW-50 No. and unit address will appear. (Example: 1-012)
Error detection unit address	The address of the unit that detected the error will appear. Note: When [1], [2], [3], or [4] is selected as [Controller], TE-50/TW-50 No. and unit address will appear. (Example: 1-012)
Error recovery date and time	The date and time when the error recovered will appear.
Error code	The error code that corresponds to the error will appear. Touch the error code to display the definition. 

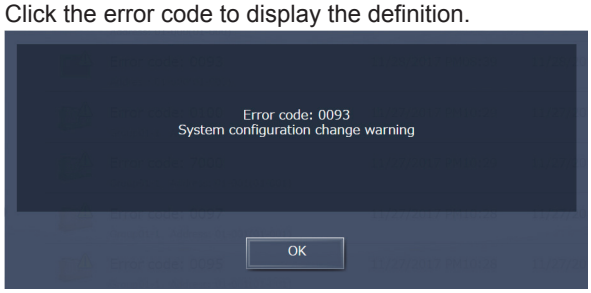
3-5-1-2. Integrated Centralized Control Web

Click [Notice] in the menu, and then click [Unit error log] to access the Unit error log screen.

Note: The latest 64 unit errors will appear for each TE-200/TE-50/TW-50.

Note: Unit errors of all TE-200/TE-50/TW-50 controllers will appear in a list.

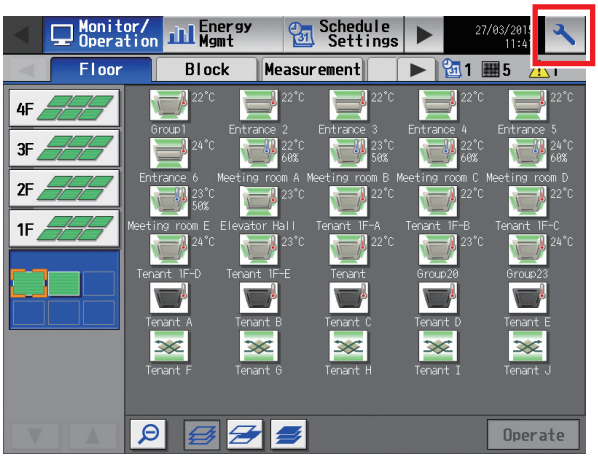


Item	Description
Controller	Display target error log can be narrowed down by selecting a centralized controller.
Error occurrence date and time	The date and time when the error occurred will appear.
Error recovery date and time	The date and time when the error was resolved will appear.
Error code	The error code that corresponds to the error will appear. Click the error code to display the definition. 
Error source unit address	The centralized controller No. and address of the unit in error will appear.
Error detection unit address	The address of the unit that detected the error will appear.
Clear log	Click to clear the displayed unit error log of the centralized controller selected in [Controller].

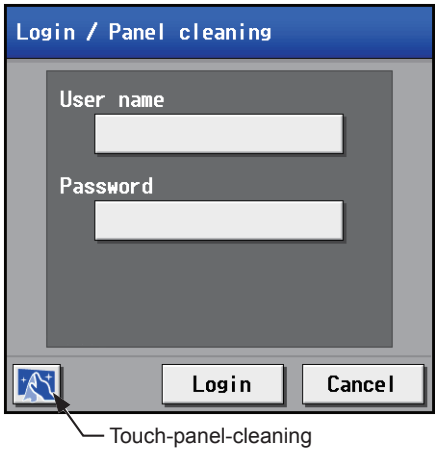
4. Practical operations

4-1. Cleaning the touch panel

(1) Touch [ ] to display the login window.

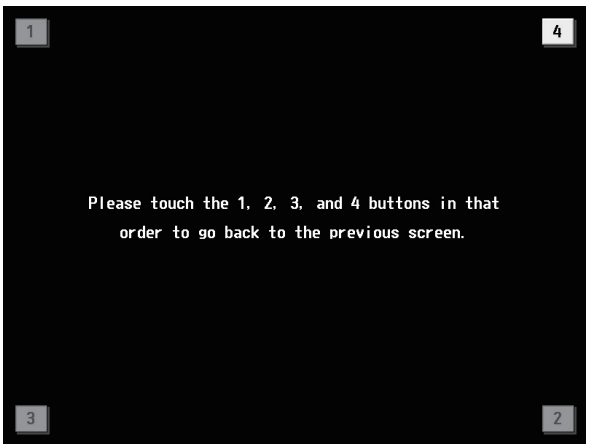


(2) On the Login window, touch the “Touch-panel-cleaning” button.



(3) Clean the touch panel with a soft dry cloth, a well-wrung cloth that has been soaked in water with mild detergent, or a cloth dampened with ethanol.

Note: Do not use acidic, alkaline, or organic solvents.



(4) After cleaning, touch the squares with numbers from 1 to 4. The screen will return to the previous screen.

Note: The squares will change to gray when touched.

5. Initial startup settings

5-1. Initial startup setting procedures

5-1-1. TE-200 initial startup for a system without connection to a TE-50/TW-50 controller

(1) After the power is turned on, a language selection screen will appear.
Select the language to be used for display, and then touch [OK].

Note: It will take approximately one minute for the display to appear after the power is turned on.
Note: Do not touch the LCD before any settings screen appears.
Note: Once the initial settings have been made, [Monitor/Operation] screen will appear after the power is turned on.



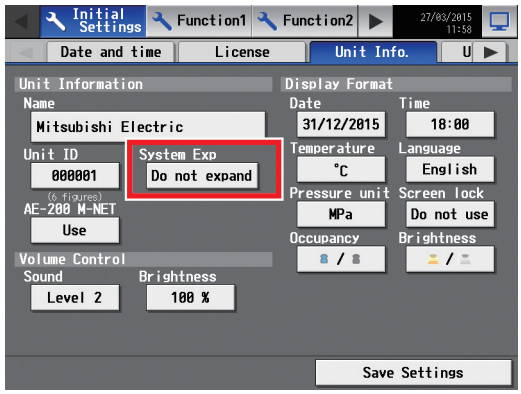
(2) The [Date and time] screen will appear.
Referring to section 5-2-3, set the current date, current time, and daylight saving time, and then touch [Save Settings].



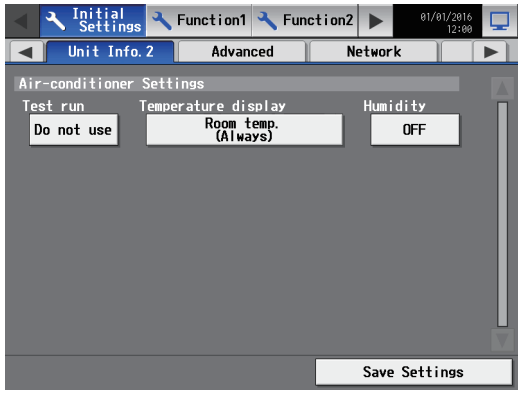
(3) Touch the [Unit Info.] and [Unit Info. 2] tabs.
Referring to section 5-2-5, make necessary basic settings, and then touch [Save Settings].

Note: Make sure to set the [System Exp] setting for the TE-200 to [Do not expand].
Note: Make sure to set the [AE-200 M-NET] setting to [Use].

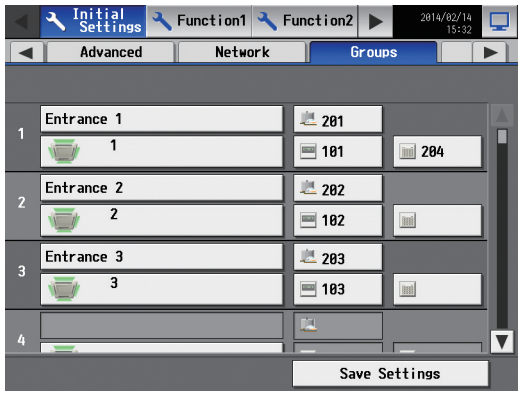
Unit Info.



Unit Info. 2

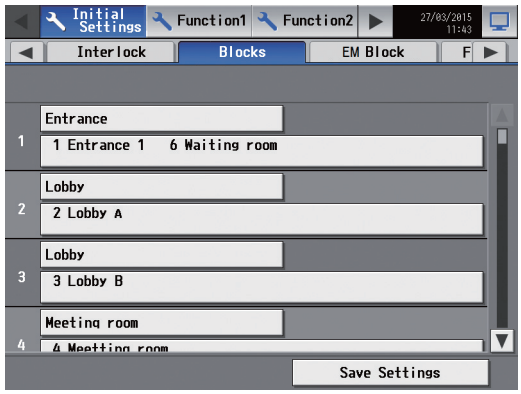


(4) Touch the right triangle button to display the [Groups] tab, and touch it.
Referring to section 5-2-7, make group settings, and then touch [Save Settings].



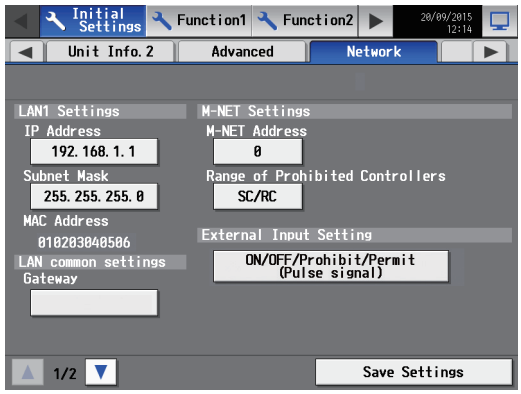
(5) Make the following settings, as required.

- Block settings (See section 5-2-8 “Blocks”.)
- Floor layout settings (See section 5-2-9 “Floor Layout”.)



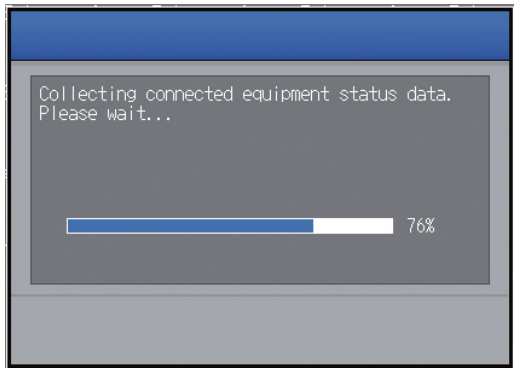
(6) Touch the right triangle button to display the [Network] tab, and touch it.
Referring to section 5-2-6, make necessary settings, and then touch [Save Settings].

Note: When the LAN settings are changed, TE-200 will reboot, and the step (7) below will be skipped.

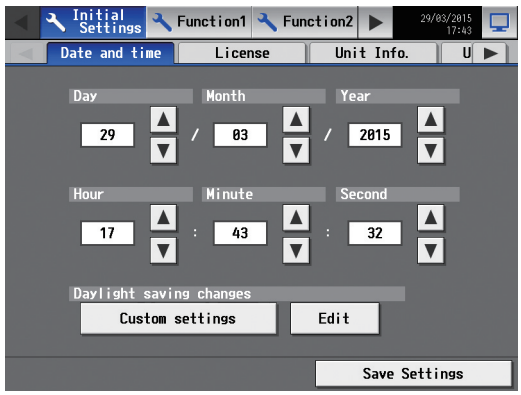


(7) Touch [ ] at the right top of the screen.
A message “Are you sure you want to return to the Monitor / Operation screen?” will appear. Touch [Yes] to move to the [Monitor/Operation] screen.
Percentages of startup process completion will appear.
The initial settings are completed.

Note: When no communication errors occur, the startup process will take about two or three minutes after the message appears. When an error is occurring, it may take about five minutes.



(8) Open the [Date and time] screen, and touch [Save Settings] to reflect the current date and time to each unit.



5-1-2. TE-200 initial startup for a system with connection to one or more TE-50/TW-50 controllers

Note: When connecting one or more TE-50/TW-50 controllers, make sure to make network settings for the TE-50/TW-50 first, and then make network settings for the TE-200.

[1] Settings on the TE-50

(1) After the power is turned on to the TE-50, a language selection screen will appear.
Select the language to be used for display, and then touch [OK].

Note: It will take approximately one minute for the display to appear after the power is turned on.

Note: Once the initial settings have been made, [Monitor/Operation] screen will appear after the power is turned on.



(2) The [Date and time] screen will appear.



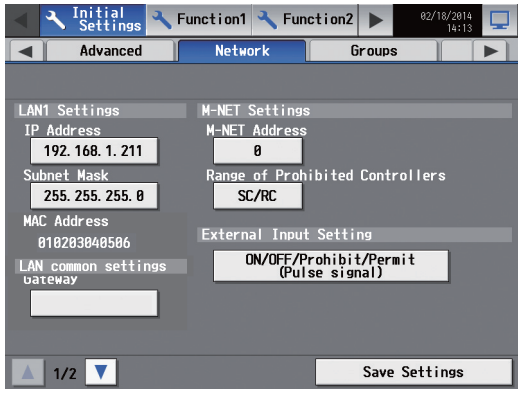
(3) Touch the right triangle button to display the [Network] tab, and touch it.
Referring to section 5-2-6, set the TE-50's IP address, and then touch [Save Settings].
The TE-50 will reboot.

Note: When multiple TE-50 controllers are connected, set the IP addresses on all TE-50.

Note: The TE-200 and TE-50's IP addresses must have the same network address.

<Reference: Default IP address>

TE-200	192.168.1.1
TE-50	192.168.1.211



[2] Settings on the TW-50

(1) Refer to the Instruction Book (Initial Settings) or the EW-50 Installation Manual.

[3] Settings on the TE-200

(1) After the power is turned on to the TE-200, a language selection screen will appear.
Select the language to be used for display, and then touch [OK].

Note: It will take approximately one minute for the display to appear after the power is turned on.

Note: Do not touch the LCD before any settings screen appears.

Note: Once the initial settings have been made, [Monitor/Operation] screen will appear after the power is turned on.



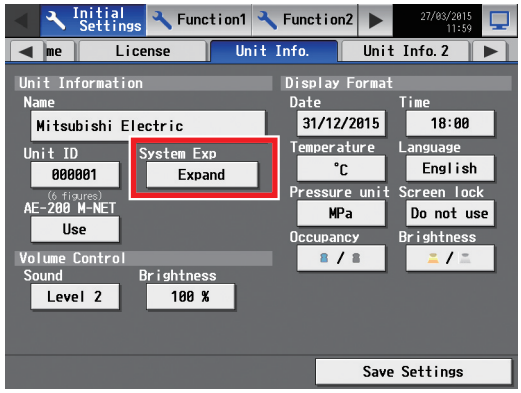
(2) Touch the [Unit Info.] and [Unit Info. 2] tabs.
Referring to section 5-2-5, make necessary basic settings, and then touch [Save Settings].

Note: Make sure to set the [System Exp] setting for the TE-200 to [Expand].

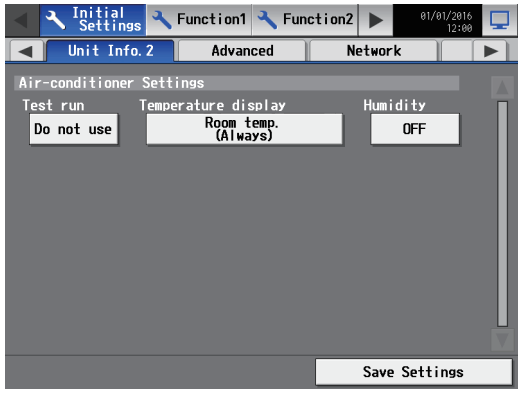
Note: The [AE-200 Apportion] setting will appear only when the “Charge” license has been registered.

Note: When “AE-200 M-NET” is set to [Use], “Controller” can be switched to [AE200], [Exp1], [Exp2], or [Exp3] ([AE], [1], [2], or [3]).
When “AE-200 M-NET” is set to [Do not use], “Controller” can be switched to [AE200], [Exp1], [Exp2], [Exp3], or [Exp4] ([AE], [1], [2], [3], or [4]).

Unit Info.



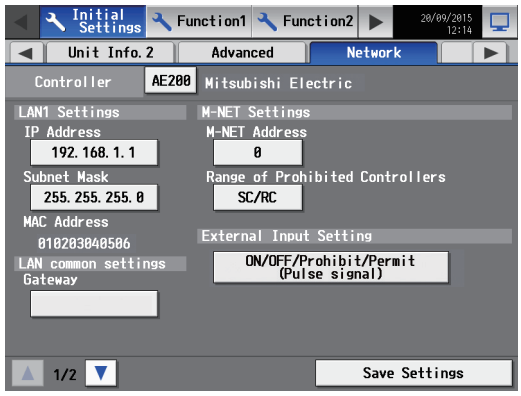
Unit Info. 2



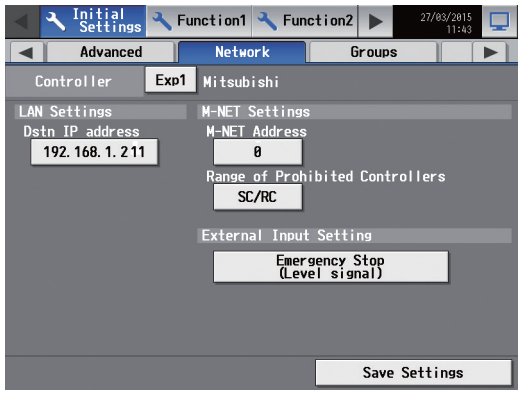
(3) Touch the right triangle button to display the [Network] tab, and touch it.
Referring to section 5-2-6, make sure that [AE200] is selected as [Controller], set the TE-200’s IP address and subnet mask, and then touch [Save Settings].
The TE-200 will reboot.
When the reboot process is complete, log in to the Initial Settings menu.

Note: Refer to section 5-2-1 “Logging in to the Initial Settings menu” for how to log in.

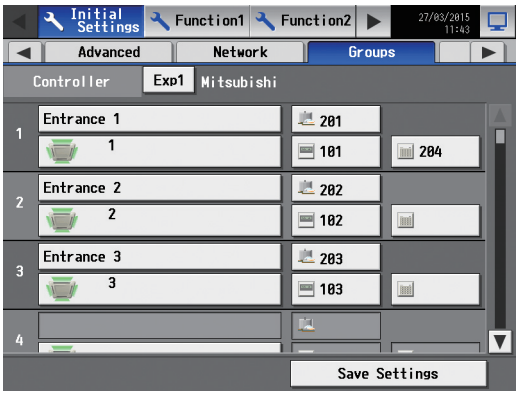
Note: Do not touch the LCD during the reboot.



(4) In the [Controller] section, select [1], [2], [3], or [4] to make settings for each TE-50/TW-50.
Referring to section 5-2-6, set the IP address of each TE-50/TW-50 that is connected to the TE-200, and M-NET address, and then touch [Save Settings].

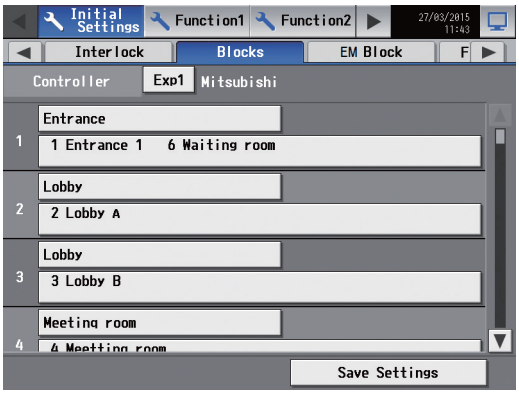


(5) Touch the [Groups] tab.
Referring to section 5-2-7, select [AE], [1], [2], [3], or [4] in the [Controller] section, make group settings for each TE-200/TE-50/TW-50, and then touch [Save Settings] on each settings screen.
A message “Collecting connected equipment status data. Please wait...” will appear.



(6) Make the following settings, as required.

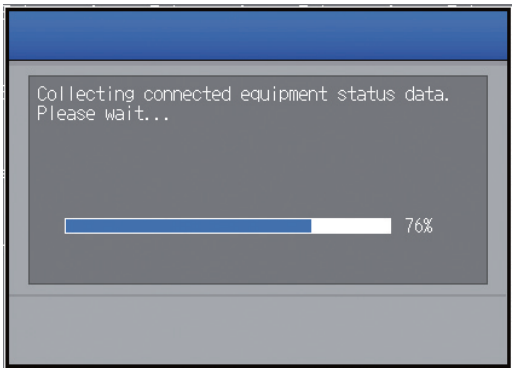
- Block settings (See section 5-2-8 “Blocks”.)
- Floor layout settings (See section 5-2-9 “Floor Layout”.)



(7) Touch the [Date and time] tab.
Referring to section 5-2-3, set the current date, current time, and daylight saving time, and then touch [Save Settings].
Note: The TE-200’s current date and time will be synchronized to each TE-50/TW-50 and remote controllers.



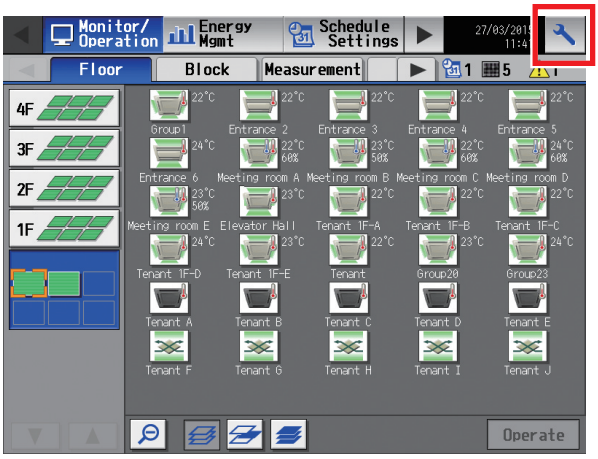
(8) Touch [ ] at the right top of the screen to move to the [Monitor/Operation] screen.
Percentages of startup process completion will appear.
The initial settings are completed.
Note: When no communication errors occur, the startup process will take about two or three minutes after the message appears. When an error is occurring, it may take about five minutes.



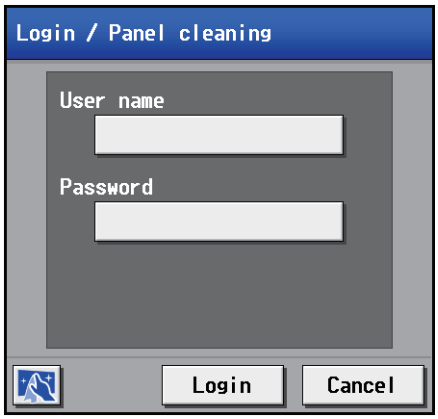
5-2. Initial Settings

5-2-1. Logging in to the Initial Settings menu

(1) Touch [ ] to display the login window.



(2) Enter the user name and the password on the keyboard screen (See [1] “Keyboard screen”), and touch [Login]. [Initial Settings] menu screen will appear.
The table below shows the default user names, passwords, and functions that are available for maintenance users and building managers.

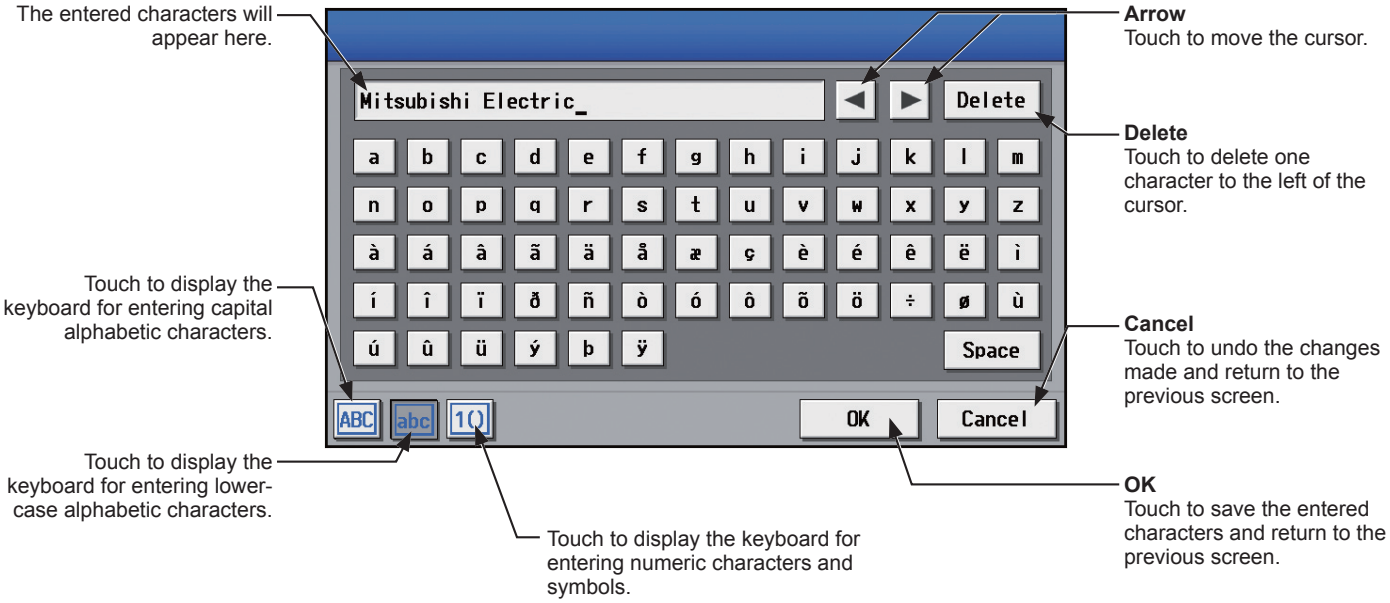


User	Default user name	Default password	Available functions
Maintenance user	initial	init	All functions
Building manager	administrator	admin	The items to which access rights have been given on the [User Info] screen are available.

*1 A maintenance user can specify the functions to be made available for building managers. Refer to the Instruction Book (Initial Settings) for details.

*2 It is recommended to change the default user name and password so that the users other than the maintenance users and building managers will not be able to change the settings.

[1] Keyboard screen

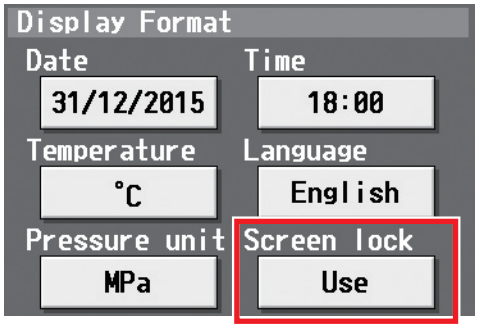


5-2-2. Locking the screen

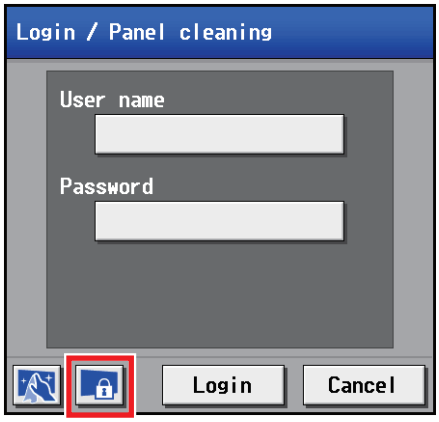
Locking the screen prevents unauthorized users from accessing.

(1) To activate the screen lock function, set the [Screen lock] setting to [Use] on the [Unit Info.] screen under the [Initial Settings] menu.
If the screen lock function is activated, the screen locks when the backlight turns off (after three minutes of not touching the screen).

Note: The default setting is [Do not use].
Note: The screen lock function will not be activated when any screen under the [Initial Settings] menu is open.



(2) Touch [] on the login screen to lock the screen immediately.
To unlock the screen, enter the same user name and password used to log in.



5-2-3. Date and time

Touch [Initial Settings] in the menu bar, and then touch [Date and time].

Set the current date and time, and then touch [Save Settings].

Note: The date and time settings may not be accessible if logged in as a building manager.

Note: The date and time settings made on this screen will be reflected on all the units in the M-NET system, all connected TE-50/TW-50 units, and the TE-200 units whose [Time Master/Sub] setting is set to [Sub].

Note: The date and time cannot be set on this screen if the [Time Master/Sub] setting is set to [Sub].

Note: The daylight saving time setting is required only on the TE-200.

Note: The date and time settings made on the TE-50/TW-50 unit whose [Time Master/Sub] setting is set to [Sub] will not be sent to the other TE-50/TW-50 units.

Note: If the current time is moved forward while the scheduled operation is performed, the operation that was scheduled to take place during the time that was skipped will not be performed.

Note: Changing the date and/or time when the charging function is in use can affect the calculation of the charges.

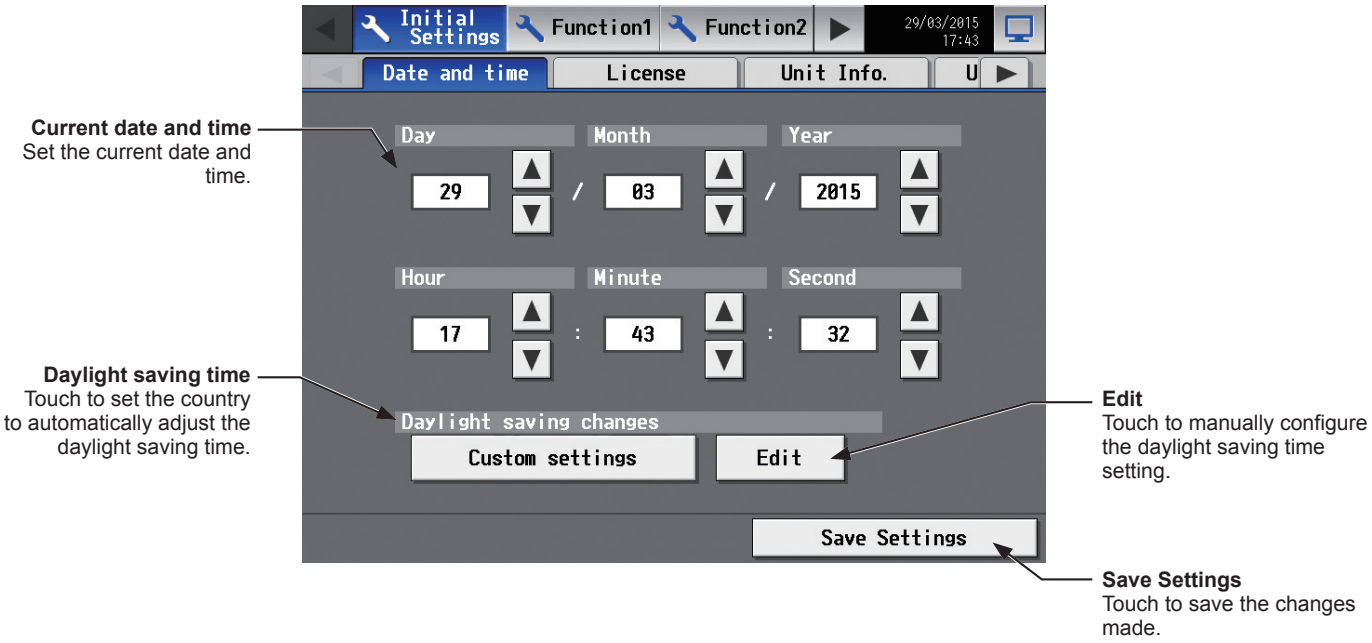
Note: If the system is connected to a TG-2000A, make or change the settings from the TG-2000A.

Note: When TE-50/TW-50 controller, DIDO controller (PAC-YG66DCA), AI controller (PAC-YG63MCA), or PI controller (PAC-YG60MCA) is added to the system, set the current date and time on this screen to synchronize the date and time on the added controller.

Note: Although date and time settings can be made on each TE-50/TW-50, the date and time synchronization from TE-200 is performed once a day. Make the date and time settings on the TE-50/TW-50 only after the TE-50/TW-50 is replaced.

Important

- When one or more TE-50/TW-50 controllers are connected, the date and time settings must be made with the TE-50/TW-50 properly connected to ensure proper settings.

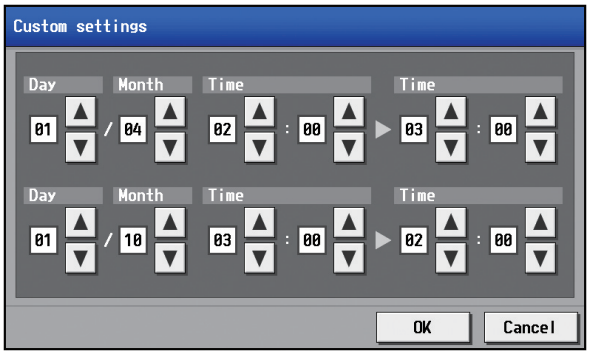


(1) Set the current date and time.

(2) To automatically adjust the daylight saving time, touch the “Daylight saving time” button. Touch the applicable country, and then touch [OK].

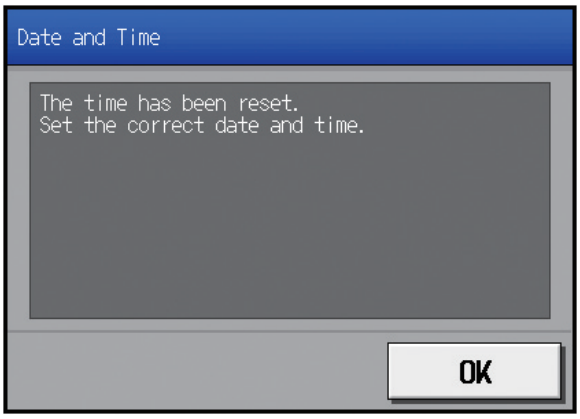
Note: When not using the daylight saving time function, touch “----.”

Note: If the applicable country is not found, touch [Custom settings] at the bottom, and touch [OK]. Then, touch [Edit] to open the screen below, and manually configure the daylight saving time setting.



Note

- Message that will appear when the date and time have been reset
  If the power supply is cut off for a long time due to power failure or other reasons, the date and time will be reset, and the following popup message will appear when the power is turned on next. If this message appears, set the date and time again.



* This message will appear periodically until the date and time setting is made.

* If the controller is used without the date and time being set, the Schedule function or the Night Setback Control will not work properly.

* If the [Time Master/Sub] setting for the given controller is set to [Sub], temporarily change the setting to [Master], set the current date and time, and then set the setting back to [Sub].

5-2-4. License registration for optional functions

Touch [Initial Settings] in the menu bar, and then touch [License].

Please ask your dealer for more details on the optional functions and how to purchase a license number.

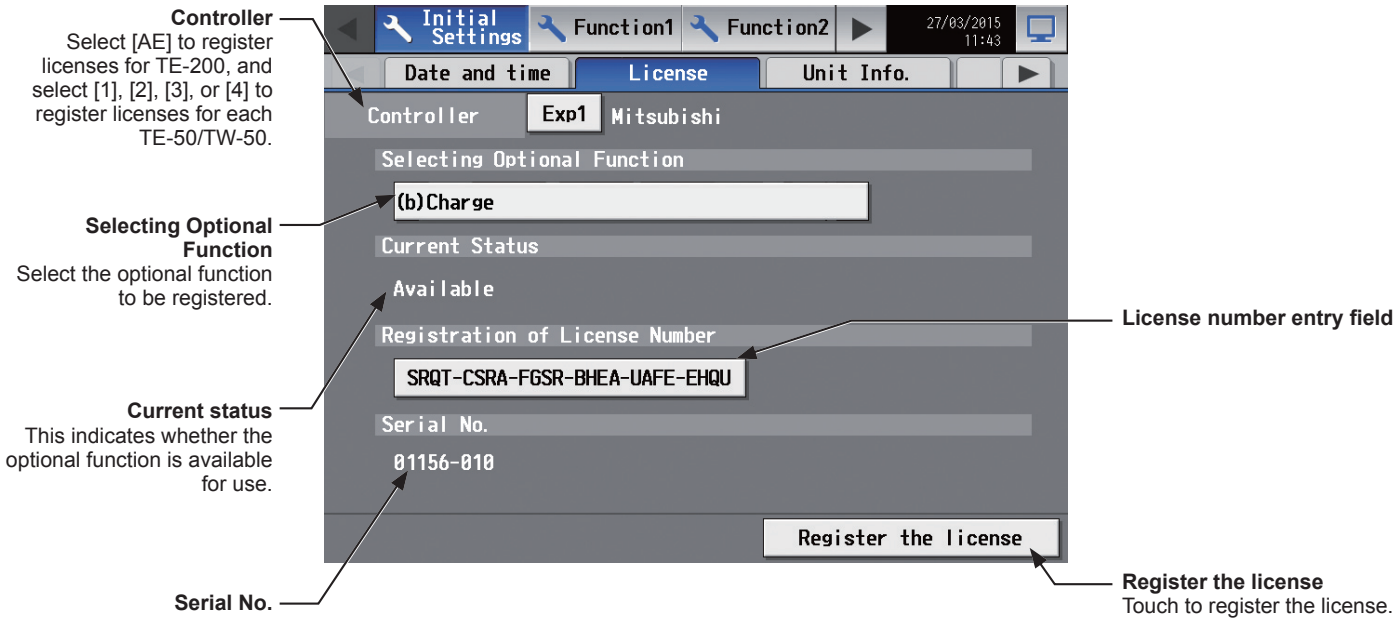
Note: The current date and time settings are required for license registration. Refer to section 5-2-3 “Date and time” for date and time settings.

Note: The license registration is required for each TE-200/TE-50/TW-50.

Note: The [Controller] setting will appear (only on the TE-200’s LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to register licenses for each TE-200, TE-50, and TW-50 individually.

Important

- When one or more TE-50/TW-50 controllers are connected, licenses for the TE-50/TW-50 must be registered with the TE-50/TW-50 properly connected to ensure proper settings.



(1) In the [Selecting Optional Function] section, select the optional function to be registered. The current availability will appear in the [Current Status] section.

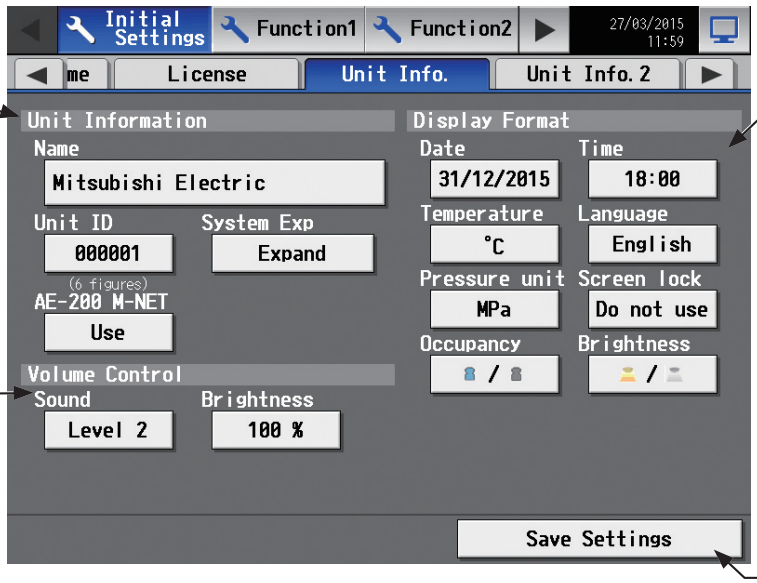
(2) In the “License number entry field” button, enter the license number and touch [Register the license].
In the [Current Status] section, a word [Available] will appear.
If the registration is unsuccessful, verify that the selected optional function and the license number are correct.
Note: Alphabet “O” and “I” are not used for license number.

5-2-5. Unit Information

Touch [Initial Settings] in the menu bar, and then touch [Unit Info.] or [Unit Info. 2].
Make necessary basic system settings such as unit settings, display format, sound/brightness settings, use or non-use of test run, and display or non-display of room temperature/humidity, and then touch [Save Settings].

Note: The Unit Information settings may not be accessible if logged in as a building manager.

Unit Info.



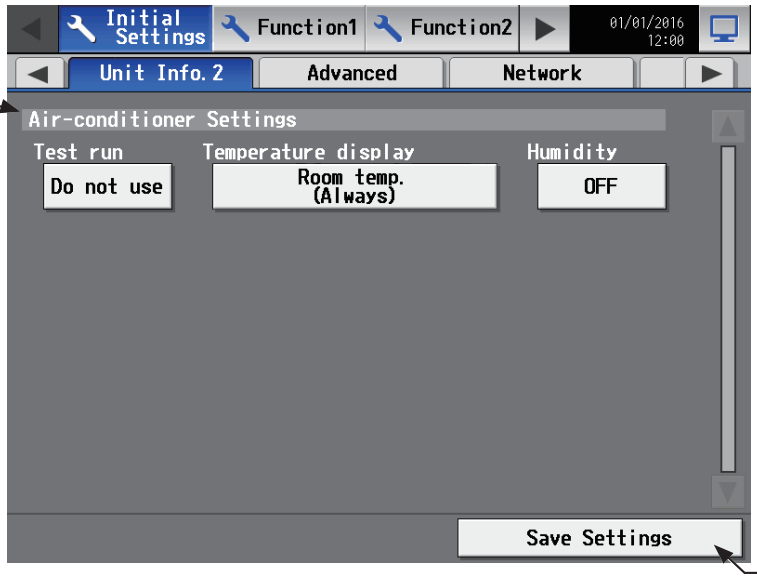
Unit Information
Set the unit name and unit ID.

Sound and brightness
Set the sound and brightness levels.

Display Format
Set the screen display items.

Save Settings
Touch to save the changes made.

Unit Info. 2



Air-conditioner Settings
Set the test run setting and display option of room temperature/humidity.

Save Settings
Touch to save the changes made.

[1] Unit Information

Follow the instructions below to set the unit name, unit ID, and System Expansion setting.

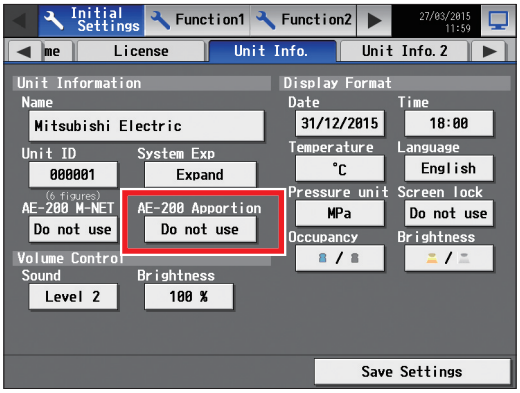
(1) Touch the [Name] button to display the keyboard. Enter the unit name in 40 alphanumeric or symbol characters or less. The name entered here will be used on the screen of the software that controls multiple TE-200 units and will also be used as a sender name in the error notification e-mail and e-mail alarm.

Note: The following characters cannot be used: <, >, &, “, or ‘

(2) Touch the [Unit ID] button to display the keyboard. Enter the unit ID in 6 figures. Use this setting to manage the multiple unit IDs. The unit ID entered here will be used on the screen of the software that controls multiple TE-200 units and will also be used as a sender ID in the error notification e-mail and e-mail alarm.

(3) When connecting one or more TE-50/TW-50 controllers, set the [System Exp] setting to [Expand].
Note: The [System Exp] section does not appear on this screen on the TE-50.
Note: When the [System Exp] setting is set to [Expand], make sure to make network settings for the TE-50/TW-50 controllers on the [Network] screen. (Refer to section 5-2-6 “Network” for details.)

(4) When using a TE-200 apportioned electricity billing function or when not using a TE-200 M-NET, set the [AE-200 M-NET] setting to [Do not use].
Note: When [Do not use] is selected, up to four TE-50/TW-50 controllers can be connected.
Note: The [AE-200 M-NET] section does not appear on this screen on the TE-50.
Note: The [AE-200 Apportion] section appears when “Charge” license is registered. To use an electricity charge apportioning function of TG-2000A, set the [AE-200 Apportion] setting to [Do not use].



[2] Sound and brightness

(1) In the [Sound] section, select the volume (Level 0–3) of the buzzer that sounds when the screen is touched. (Level 0: No sound)
Note: Although the change will be reflected right away, it will not be saved until [Save Settings] is touched.

(2) In the [Brightness] section, select the brightness (70%, 80%, 90%, 100%) of the screen. (The greater the value, the brighter the brightness.)
Note: Although the change will be reflected right away, it will not be saved until [Save Settings] is touched.

[3] Display Format

(1) In the [Date] section, select the desired display format for year, month, and date.

(2) In the [Time] section, select the desired display of time format.

(3) In the [Temperature] section, select the desired temperature unit [ºC] or [ºF].

(4) In the [Language] section, select the desired display language.

(5) In the [Pressure unit] section, select [MPa], [PSI], or [kgf/cm^2].

(6) In the [Screen lock] section, select [Use] or [Do not use]. Select [Use] to activate the screen lock function. (Refer to section 5-2-2 “Locking the screen” for details.)

(7) In the [Occupancy] section, make the Show/Hide setting for the occupancy/vacancy status that is detected by the built-in occupancy sensor on the ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA).
Select [Hide] not to display the occupancy/vacancy status on the [Floor] or [Block] display.
Select [ ] (blue) to display the occupancy icon when the sensor on the remote controller detects occupancy.
Select [ ] (gray) to display the vacancy icon when the sensor on the remote controller detects vacancy.
Select [ ] (blue/gray) to display the occupancy or vacancy icon according to the occupancy status of the room.
Note: If the ME remote controller has no built-in occupancy sensor, the occupancy/vacancy icons will not be displayed on the [Floor] or [Block] display.

(8) In the [Brightness] section, make the Show/Hide setting for the brightness/darkness status that is detected by the built-in brightness sensor on the ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA).
Select [Hide] not to display the brightness/darkness icons on the [Floor] or [Block] display.
Select [ ] (yellow) to display the brightness icon when the brightness level in the room reaches the predetermined brightness level.
Select [ ] (gray) to display the darkness icon when the darkness level in the room reaches the predetermined darkness level.
Select [ ] (yellow/gray) to display the brightness or darkness icon according to the brightness/darkness level of the room.

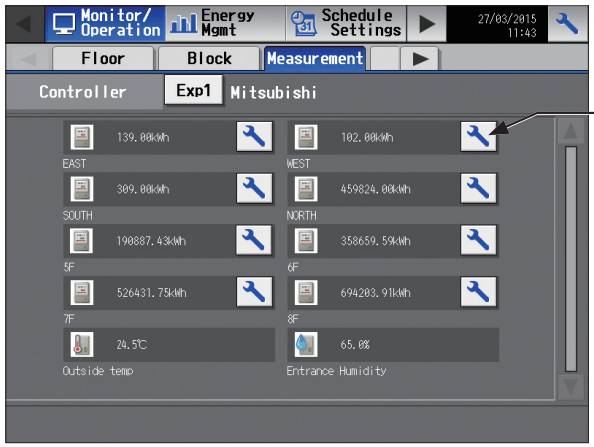
Note: If the ME remote controller has no built-in brightness sensor, the brightness/darkness icons will not be displayed on the [Floor] or [Block] display.

Note: The brightness/darkness detection thresholds are set on the ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)

[4] Air-conditioner Settings

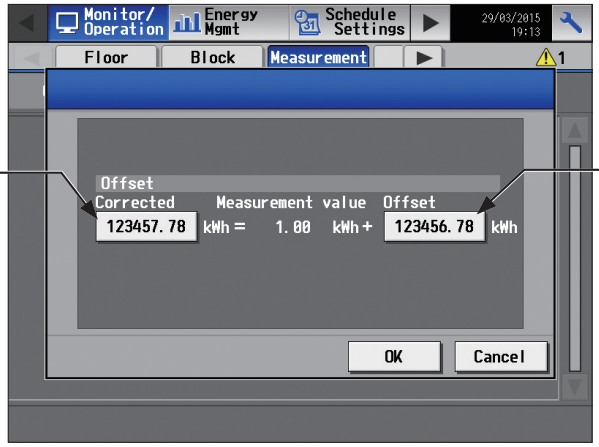
(1) In the [Test run] section, select [Use] or [Do not use]. Select [Use] when performing a test run from the operation settings screen, or when editing the electricity meter reading value on the [Measurement] display.

Editing measurement values



1. Touch the “Measurement value edit” button to open the screen below.

Note: The “Measurement value edit” button will appear only when the [Test run] setting is set to [Use].



2. Touch the “Edit the adjusted measurement value” button. Enter the current electricity meter reading value, and then touch [OK].

Note: Set the setting back to [Do not use] after completing a test run.

Note: The setting will go back to [Do not use] when the time on the TE-200/TE-50 reaches 0: 00 in the morning.

Note: Only the electric energy values on the [Measurement] display will change. This setting will not affect the energy-control-related screens.

Note: To reset the adjusted measurement value to the original cumulative value, touch the “Edit the offset value” button and set to “0”.

(2) In the [Temperature display] section, select the desired display option for the room temperature or the set temperature to be used on the [Floor] or [Block] display.
Select [Room temp. (Always)] to display the room temperature at all times, [Room temp. (During operation)] to display the room temperature only during operation, [Set temp.] to display the set temperature at all times, [Room temp.(Always)/Set temp.] to display both the room temperature and set temperature at all times, [Room temp.(During op.)/Set temp.] to display the room temperature only during operation and to display the set temperature at all times, and [Hide] not to display the room temperature or the set temperature.

Note: This setting is effective only on the LCD and will not be reflected to the Integrated Centralized Control Web.

Note: The room temperature shown may be higher than the actual temperature especially when the unit is stopped during the Heat mode. Therefore, selecting [Room temp. (During operation)] is recommended when displaying the room temperature.

(3) In the [Humidity] section, make the Show/Hide setting for the humidity reading of the built-in humidity sensor on the ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA).
Select [ON] to display the humidity reading on the [Floor] or [Block] display.

5-2-6. Network

Touch [Initial Settings] in the menu bar, and then touch [Network].

Make necessary basic system settings such as LAN settings, M-NET settings, and external input settings for each TE-200, TE-50, and TW-50, and then touch [Save Settings]. A message will appear asking whether or not to restart the controller. Touch [OK] to restart the TE-200/TE-50 to reflect the changes.

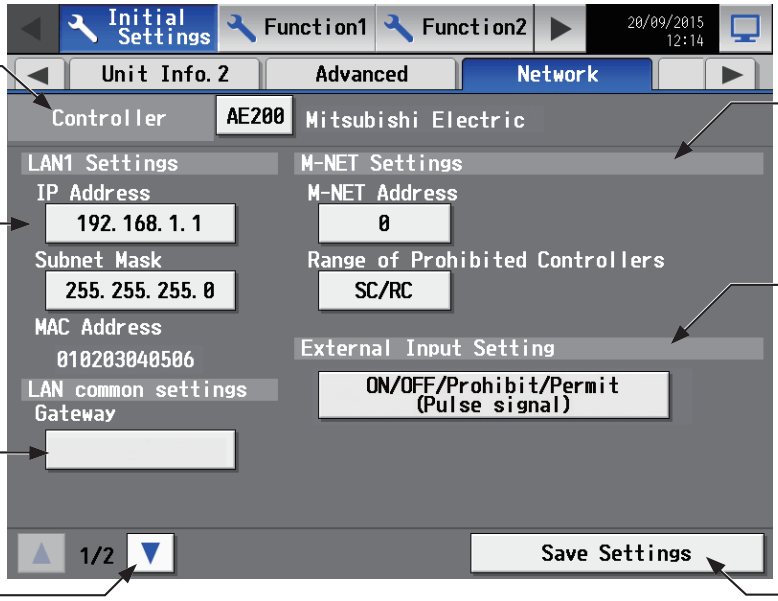
Note: The Network settings may not be accessible if logged in as a building manager.

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to make settings for each TE-200, TE-50, and TW-50 individually.

Important

- Network settings for the TE-50/TW-50 must be made with the TE-50/TW-50 properly connected to ensure proper settings. Those settings made without the connection of TE-50/TW-50 will not be reflected.

1st page



Controller
Select [AE] to make settings for TE-200, and select [1], [2], [3], or [4] to make settings for each TE-50/TW-50.

LAN1 Settings
Set the IP address and subnet mask.

LAN common settings
Set the gateway address.

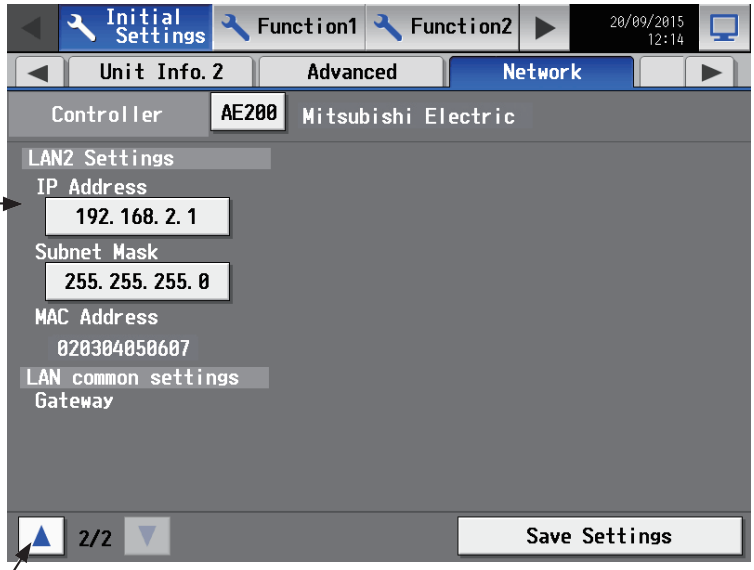
Touch to go to the next page.

M-NET Settings
Set the M-NET address and range of prohibited controllers.

External Input Setting
Set the external signal input mode.

Save Settings
Touch to save the changes made.

2nd page



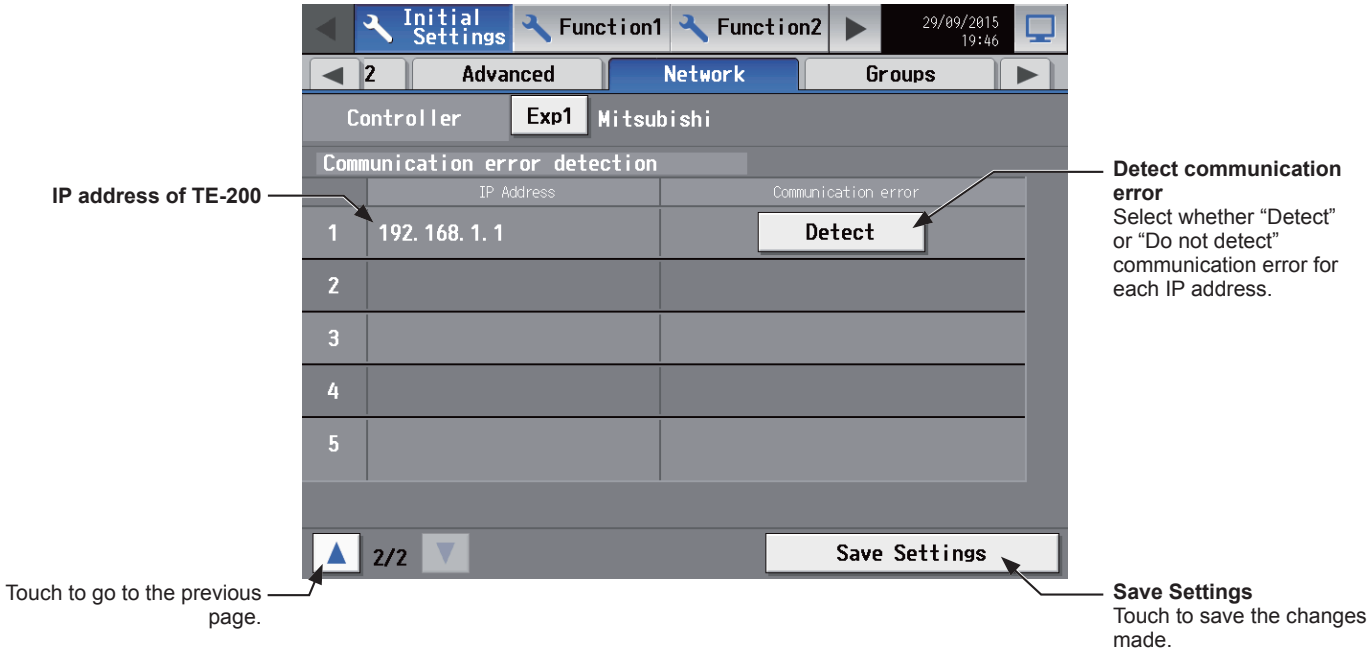
LAN2 Settings
(Used for BACnet® function only).

Touch to go to the previous page.

* BACnet® is a registered trademark of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, INC.).

Only when a TE-50/TW-50 is connected

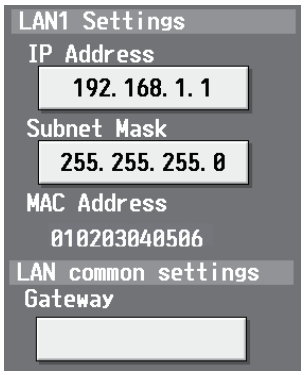
By using a communication error detection function, communication errors between TE-200/TE-50/TW-50 can be displayed on the TE-50's LCD via TE-200.



Note: A communication error "6920" will be detected by the TE-50/TW-50 when the TE-200's IP address is changed with the TE-50/TW-50 connected. In the [Communication error detection] section in the [Network] screen, change the communication error detection setting for the previous IP address from "Detect" to "Do not detect."

[1] LAN1 Settings

LAN1 settings vary depending on whether the TE-200/TE-50 is connected to a dedicated LAN or an existing LAN. See the sections below for how to set the TE-200/TE-50 IP addresses, subnet mask, and gateway addresses. Before making the settings, make sure that the LAN is connected to LAN1 port.



(1) LAN1 settings for connecting the TE-200/TE-50/TW-50 to a dedicated LAN

Settings for a TE-200

Note: See the procedures below when making LAN1 settings on the TE-50.

(1) Make sure that [AE200] is selected in the [Controller] section.

(2) Enter the TE-200's IP address in the [IP Address] field. If the LAN has been newly set up, allocate IP addresses to the TE-200 units in a sequential order starting with [192.168.1.1]. For example, the first TE-200 unit will have an IP address of [192.168.1.1], the second TE-200 unit will have an IP address of [192.168.1.2] and so on. (The same IP addresses cannot be used.)
Allocate IP addresses to the TE-50/TW-50 units in a sequential order starting with [192.168.1.211].

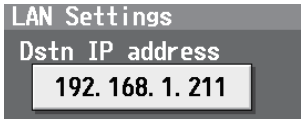
Note: The recommended IP address ranges are as follows.
TE-200: Between [192.168.1.1] and [192.168.1.40]
TE-50/TW-50: Between [192.168.1.211] and [192.168.1.249]
PC: Between [192.168.1.101] and [192.168.1.150]

Note: After the TE-200 IP address is changed, the TE-50/TW-50 power will be reset.

(3) Enter [255.255.255.0] in the [Subnet Mask] field (only when the IP address is [192.168.1.*]).
Note: If [255.255.255.0] is entered, set the IP addresses of all TE-50 units to [192.168.1.*].

(4) When monitoring the system remotely or using e-mail function via a dial-up router, enter the router IP address in the [Gateway] field.
Leave the [Gateway] field blank when not connecting a dial-up router.
[192.168.1.254] is recommended for use as the IP address of the dial-up router. Refer to the dial-up router instruction manual for details of how to set the IP address.
Note: [192.168.1.254] is recommended for use as the IP address of the dial-up router. Refer to the dial-up router instruction manual for details of how to set the IP address.
Note: The use of a dial-up router with no modem requires a modem (for analog or ISDN) to be connected between the router and the public phone line.

Settings for when connecting one or more TE-50/TW-50 controllers



(1) Select [1], [2], [3], or [4] in the [Controller] section to make settings for each TE-50/TW-50.

(2) Enter the IP address of the TE-50/TW-50 that is connected to the TE-200 in the [Dstn IP address] field.
A message that indicates that the connection information of the TE-50/TW-50 is being collected will appear for a few minutes.
Note: TE-50/TW-50 will not operate properly and the TE-50/TW-50 software version will not appear if the entered address does not match the ones that have been set on the TE-50/TW-50.

(2) LAN1 settings for connecting the TE-200/TE-50 to an existing LAN

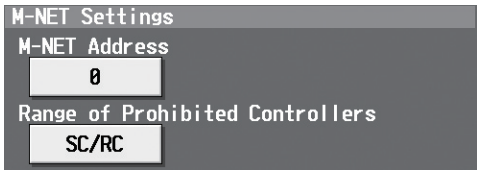
(1) When connecting the TE-200/TE-50 to an existing LAN, consult the system administrator to decide the IP addresses, subnet mask, and gateway addresses.

[2] LAN2 Settings

LAN2 is used only for BACnet® function. Do not use LAN2 for other functions.
For how to make BACnet® function settings, refer to the Instruction Book (BACnet® function).
Note: IP addresses of LAN1 and LAN2 must not duplicate.

[3] M-NET Settings

Note: Make the M-NET settings only on the TE-200.



(1) Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to make settings for each TE-200, TE-50, and TW-50 individually.

(2) Enter [0] in the [M-NET Address] field (unless otherwise specified).

(3) Select [SC/RC] to prohibit the operation from both the sub system controllers and the remote controllers.
Select [RC Only] to prohibit the operation only from the remote controllers.

5-2-7. Groups

Touch [Initial Settings] in the menu bar, and then touch [Groups].

Register the groups of air conditioning units to be connected to the TE-200/TE-50/TW-50, and then touch [Save Settings].

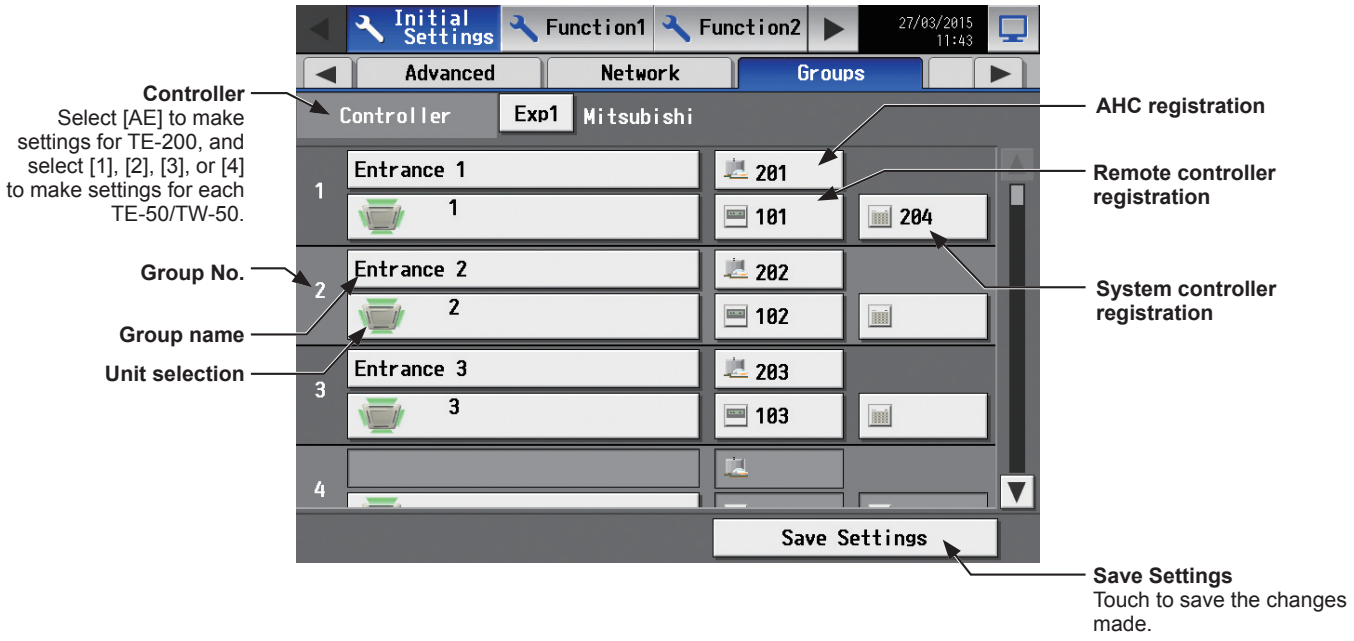
Note: Some settings may not be accessible if logged in as a building manager.

Note: If the system is connected to a TG-2000A, make or change the settings from the TG-2000A.

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to make settings for each TE-200, TE-50, and TW-50 individually.

Important

- Group settings for the TE-50/TW-50 must be made with the TE-50/TW-50 properly connected to ensure proper settings. Those settings made without the connection of TE-50/TW-50 will not be reflected.
- The units connected to TE-200 cannot be grouped together with the units connected to TE-50/TW-50.



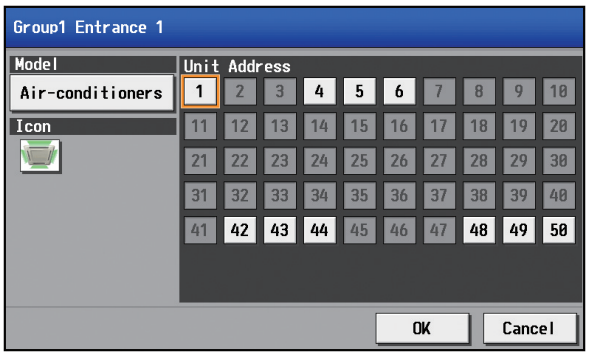
[1] Setting group names

(1) Touch the "Group name" button to display the keyboard. Enter the group name in 20 alphanumeric or symbol characters or less.

Note: The following characters cannot be used: <, >, &, ", or '

[2] Registering air conditioners to a group

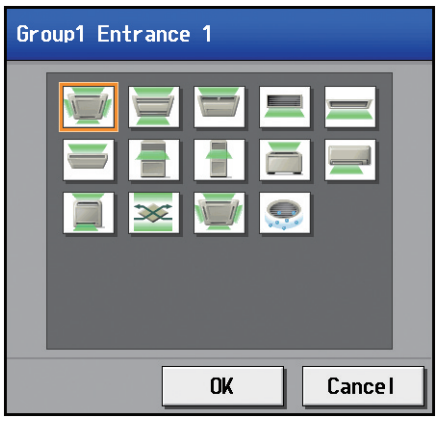
(1) To register air conditioners to each group, touch the “Unit selection” button under the target group name. A screen to select the units will appear.



Select the group type in the [Model] section, and select the address numbers of the units to be registered.
The selected unit addresses will appear with an orange frame. Touch again to deselect.

Note: Each group can contain up to 16 air conditioners.
Note: The addresses of the units that have been registered to other groups will appear with a gray background and cannot be selected.
Note: Units other than outlet air temperature control units cannot be combined with outlet air temperature control units in one group.

(2) To change the unit icon to be used, touch the icon. A screen to select an icon will appear. Select an icon to be used, and touch [OK].



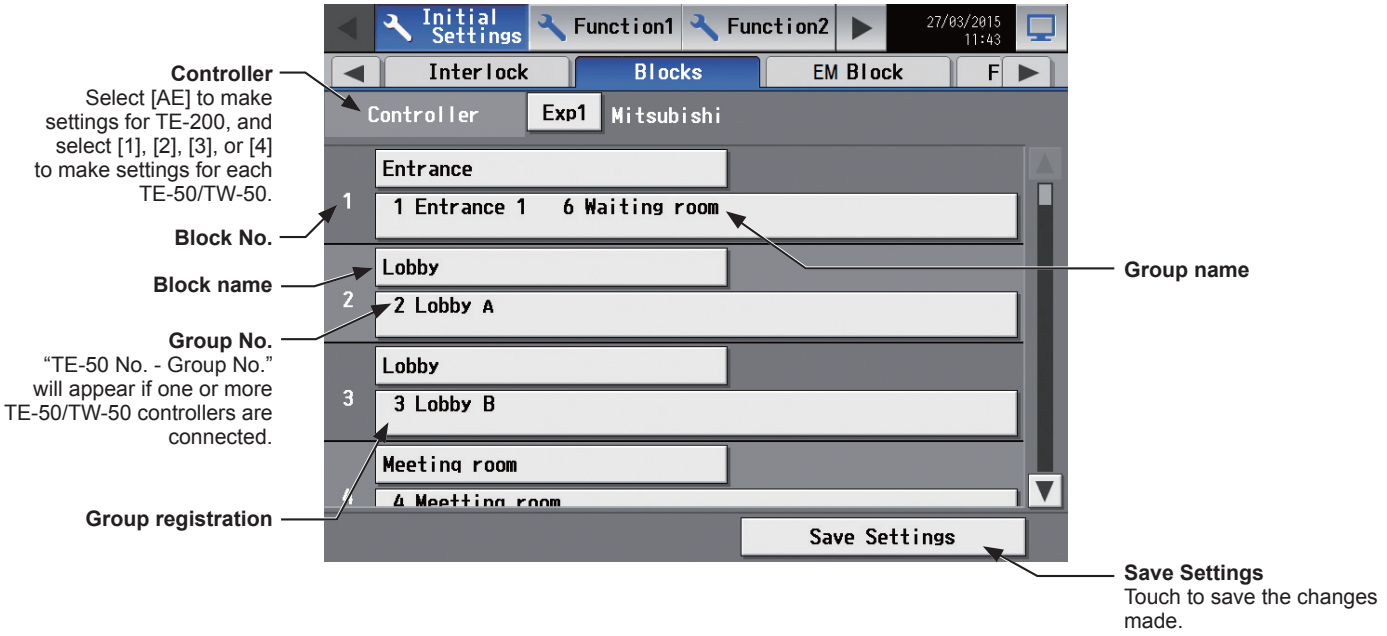
5-2-8. Blocks

By making block settings, multiple groups in a given block can be collectively monitored or operated.
Touch [Initial Settings] in the menu bar, and then touch [Blocks]. Register the groups to each block, and then touch [Save Settings].

Note: Some settings may not be accessible if logged in as a building manager.
Note: If the system is connected to a TG-2000A, make or change the settings from the TG-2000A.
Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to make settings for each TE-200, TE-50, and TW-50 individually.

Important

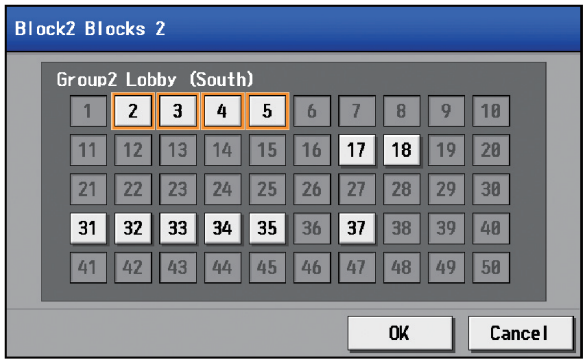
- Block settings for the TE-50/TW-50 must be made with the TE-50/TW-50 properly connected to ensure proper settings. Those settings made without the connection of TE-50/TW-50 will not be reflected.



(1) Touch the "Block name" button to display the keyboard. Enter the group name in 20 alphanumeric or symbol characters or less.

Note: The following characters cannot be used: <, >, &, ", or '

(2) Touch the "Group registration" button of the target block. A screen to select the groups will appear.
Touch the group numbers to be registered. (The name of the group that was touched last will appear.)
The selected group numbers will appear with an orange frame. Touch again to deselect.



5-2-9. Floor Layout

The floor layout on the [Floor] display under the [Monitor/Operation] menu can be changed, and the display position of the groups on the floor can be changed.

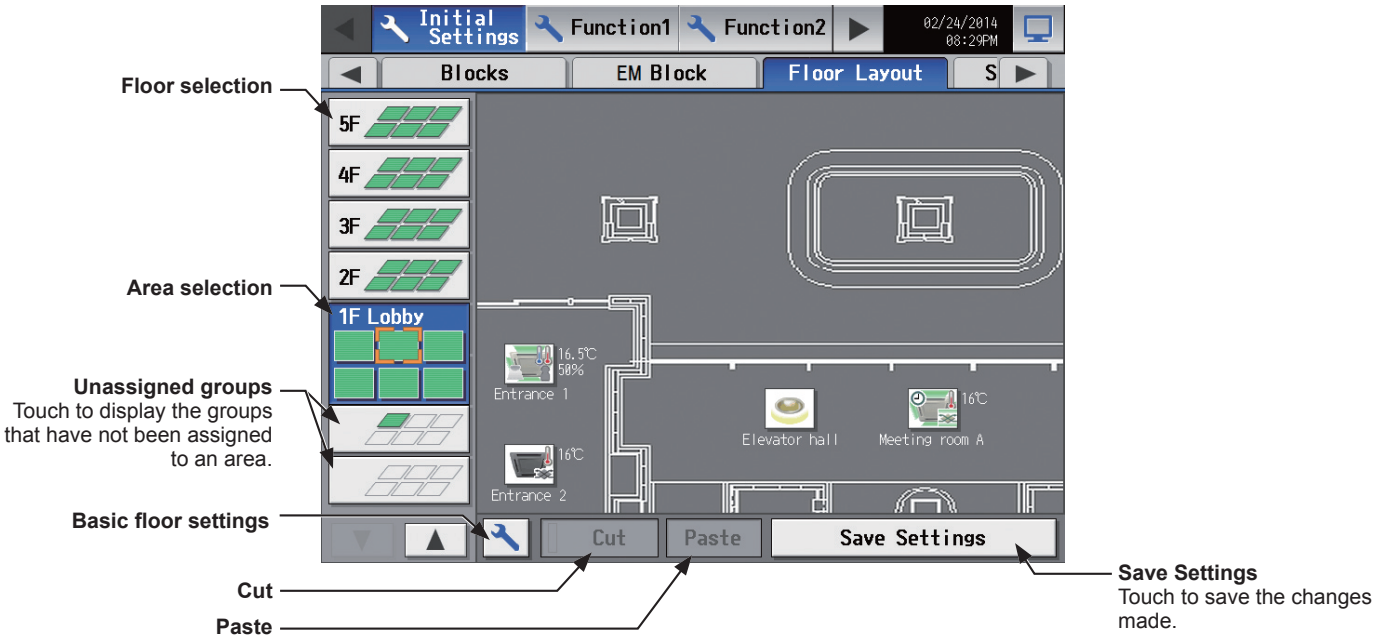
Touch [Initial Settings] in the menu bar, and then touch [Floor Layout]. All unit groups that are under the control of both TE-200 and TE-50 can be displayed on the Floor Layout screen of the TE-200.

Note: Some settings may not be accessible if logged in as a building manager.

Note: Up to 30 groups can be assigned to each area.

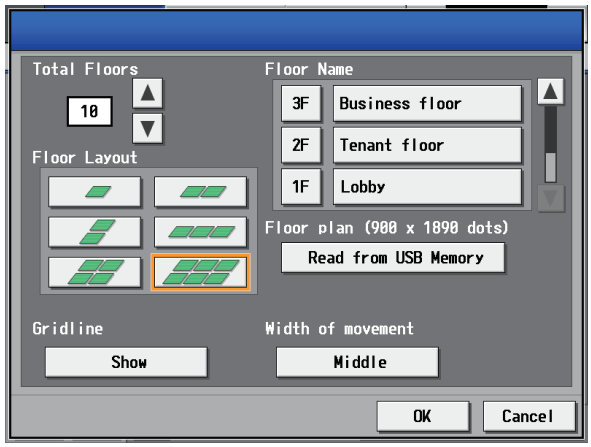
Important

- Although the Floor Layout settings can also be made on the TE-50's LCD, only the unit groups that are under the control of TE-50 controllers can be set on the TE-50's LCD.
- Floor Layout cannot be used on the TW-50 Web browser.



[1] Basic floor settings

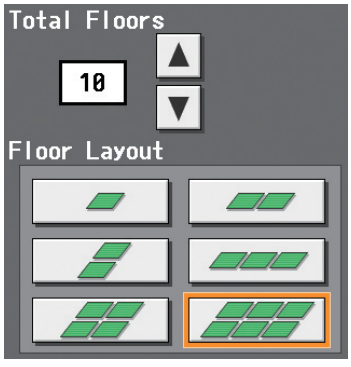
(1) Touch the "Basic floor settings" button to display the basic floor settings screen.



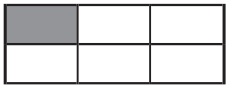
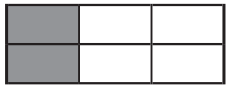
(2) Touch ▲ ▼ to set the total number of floors, and select the floor layout to be used.

Note: If the total number of floors is set to "--," none of the floor layouts can be selected.

Note: Up to ten floors can be registerted.

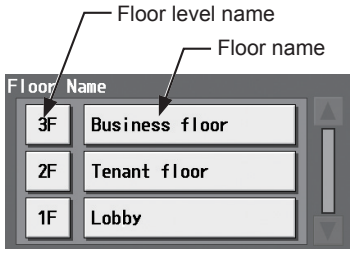


The display range of the area on the [Floor Layout] screen vary, depending on the selected floor layout.

Floor layout	Display area	Floor layout	Display area
			
			
			

(3) Touch the “Floor level name” button to display the keyboard. Enter the floor level name in 3 alphanumeric or symbol characters or less.

Then, touch the “Floor name” button to display the keyboard. Enter the floor name in 20 alphanumeric or symbol characters or less.



(4) To read floor plan files from the USB memory, touch [Read from USB Memory]. Refer to [2] below for the restrictions on the floor plan files to be read.

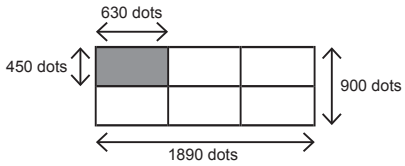


[2] Restrictions on the floor plan files to be read

File size

900 (height) × 1890 (width) dots for each floor plan

Note: The file size must be 900 (height) × 1890 (width) dots regardless of the display range of the area. (Even when the floor layout shows only one display area, the file size must be 900 (height) × 1890 (width) dots. In this case, create a file plan only in the left top area.)



File format

GIF

Note: Files that contain extension data (metadata such as XMP, transparent GIF, interlace GIF, animated GIF) cannot be read.

File name

Floor *1	File name	Floor *1	File name
1	floor_01.gif	6	floor_06.gif
2	floor_02.gif	7	floor_07.gif
3	floor_03.gif	8	floor_08.gif
4	floor_04.gif	9	floor_09.gif
5	floor_05.gif	10	floor_10.gif

*1 The floor numbers in the table are not the actual floor level name, but the number counted from the bottom on the [Floor Layout] screen. Even if the floor level name is set to “15F,” the file name will be “floor_01.gif” when the floor is the first floor in the setting.

File location

In the root folder of the USB memory

Available colors (RGB) to be used in the file

R	G	B
224	71	72
221	151	152
81	66	81
105	89	105
17	16	17
51	42	52
27	23	30
165	145	185
33	37	57
2	17	85
6	35	160
6	28	122
9	40	168
12	45	176
154	162	194
211	214	227
15	49	182
17	53	188
20	57	195
24	64	205
17	46	149
21	52	163
28	70	215
32	64	178
45	80	204
44	75	190
55	90	213
69	99	205
99	122	202

R	G	B
101	112	150
126	137	176
142	149	175
175	180	199
33	77	225
37	83	234
39	86	240
41	89	245
42	92	249
46	93	246
23	47	124
63	104	238
77	116	241
99	137	255
126	146	214
149	170	235
70	79	108
179	189	222
191	202	230
192	210	241
163	170	180
236	242	250
159	185	210
144	154	162
204	228	245
112	183	219
126	139	145
214	241	251
159	240	253

R	G	B
130	150	153
105	134	135
37	96	86
204	214	211
48	64	59
250	255	253
227	255	243
241	255	248
237	249	243
67	97	79
59	78	66
61	116	80
85	128	100
154	177	162
14	45	24
59	93	70
178	187	181
46	181	88
59	157	90
90	213	129
214	255	225
224	239	228
129	155	135
178	194	182
115	255	143
99	193	117
182	201	185
59	255	88
19	255	48

R	G	B
176	255	185
238	255	240
154	255	163
198	255	203
106	255	116
137	255	144
226	252	227
124	233	125
250	255	250
167	229	166
107	145	104
182	211	180
23	95	15
149	211	141
128	140	126
95	202	74
194	231	186
147	169	142
41	177	3
166	203	154
208	224	202
219	235	211
172	187	164
203	211	197
241	244	238
199	201	195
110	114	98
127	129	119
210	211	196

R	G	B
255	253	185
193	193	150
255	255	221
121	121	106
162	162	147
142	142	129
94	94	89
212	212	203
235	235	227
213	213	207
203	203	198
137	137	134
116	116	114
245	245	242
85	85	84
121	121	120
253	253	252
119	117	23
255	253	143
253	241	7
174	173	157
208	195	0
220	210	64
156	153	113
201	199	175
151	150	136
187	175	71
195	193	175
198	197	187

R	G	B
179	159	1
172	169	147
187	185	169
179	177	162
205	203	187
224	222	206
212	201	139
136	134	122
158	156	143
217	215	202
230	228	216
142	128	71
254	246	220
244	237	215
33	25	2
111	110	107
63	43	4
106	104	100
133	132	130
116	79	14
254	251	246
255	151	0
93	61	13
254	221	171
157	97	18
211	205	197
205	128	31
187	116	28
219	138	35

R	G	B
225	148	50
214	159	89
77	76	75
230	211	206
207	203	202
225	197	192
225	8	8
221	179	179
152	151	151
255	255	255
250	250	250
249	249	249
246	246	246
243	243	243
241	241	241
239	239	239
236	236	236
232	232	232
228	228	228
225	225	225
220	220	220
217	217	217
215	215	215
211	211	211
209	209	209
207	207	207
205	205	205
202	202	202
198	198	198

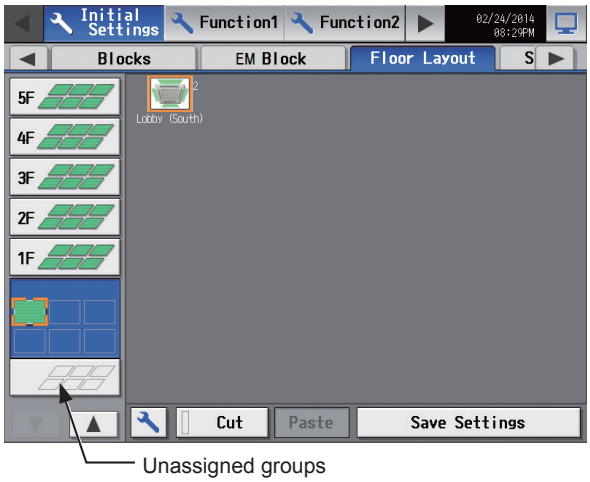
R	G	B
195	195	195
193	193	193
191	191	191
189	189	189
185	185	185
179	179	179
173	173	173
171	171	171
169	169	169
166	166	166
161	161	161
154	154	154
148	148	148
143	143	143
133	133	133
129	129	129
103	103	103
82	82	82
70	70	70
64	64	64
58	58	58
51	51	51
44	44	44
41	41	41
34	34	34
4	4	4
0	0	0
255	170	63
255	203	131

* Use the colors in the table above, otherwise the floor plan will appear in different colors.
* The default background color is RGB [103, 103, 103].

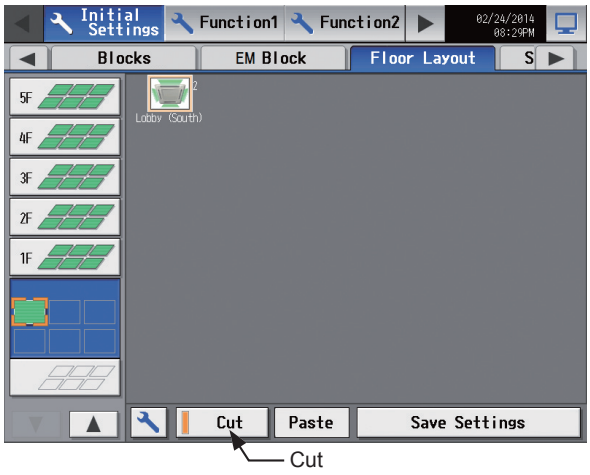
[3] Moving a group to other areas

(1) On the [Floor Layout] screen, touch the group icon to be moved. The selected group icon will appear with an orange frame.

Note: When the “Unassigned groups” button is touched, groups that have not been assigned to any area will appear in the order of their group numbers. (Up to 30 groups will appear in an area.)

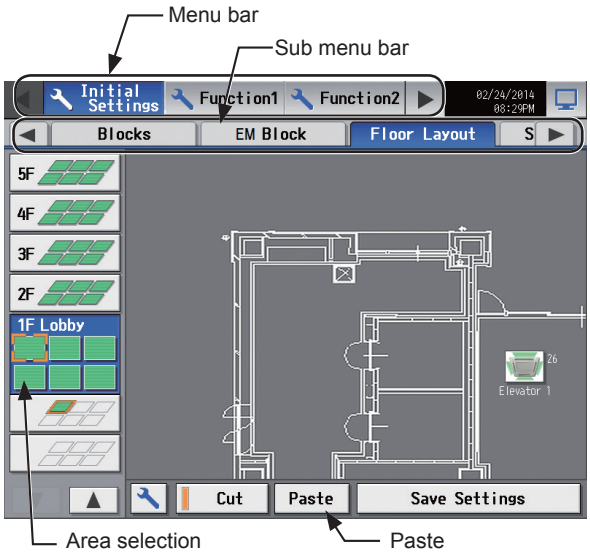


(2) Touch [Cut].
The orange frame will change to a pale orange frame.



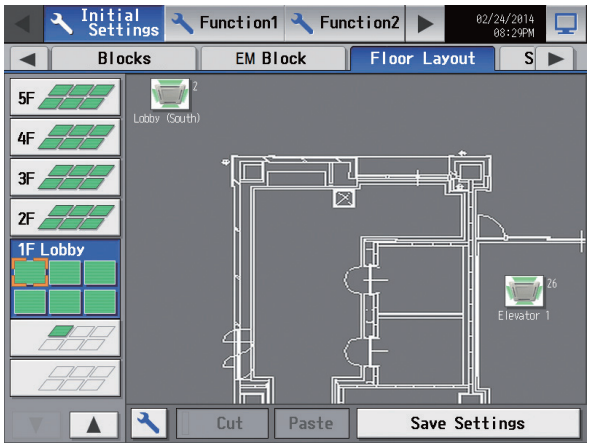
(3) With the pale orange frame being displayed, select the area to move the group to, and touch [Paste] to move the selected group to the selected area.

Note: A popup message will appear when you touch the item in the menu bar or sub menu bar to see other screens without the changes being saved. Note that the changes will NOT be saved unless the [Save Settings] button is pressed.



(4) Touch [Save Settings].

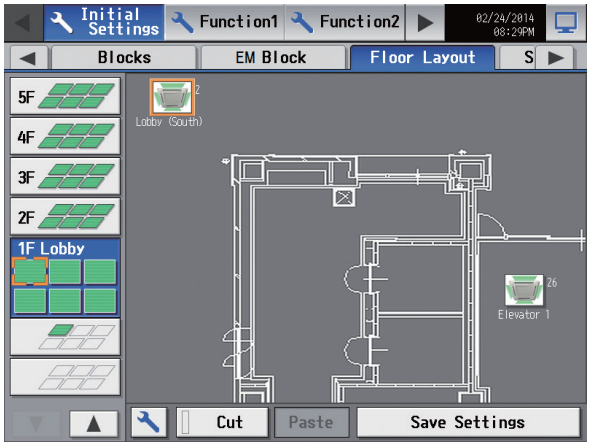
Note: To move the pasted group icon within the area, refer to [4] “Moving a group within the area” below.



[4] Moving a group within the area

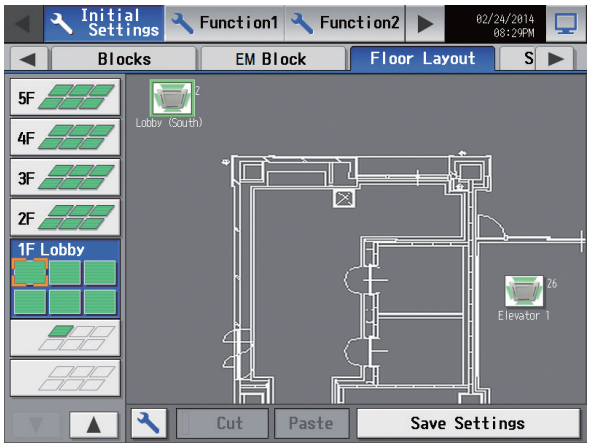
Note: It is recommended to use a commercially available touch pen.

(1) On the [Floor Layout] screen, touch the group icon to be moved. The selected group icon will appear with an orange frame.

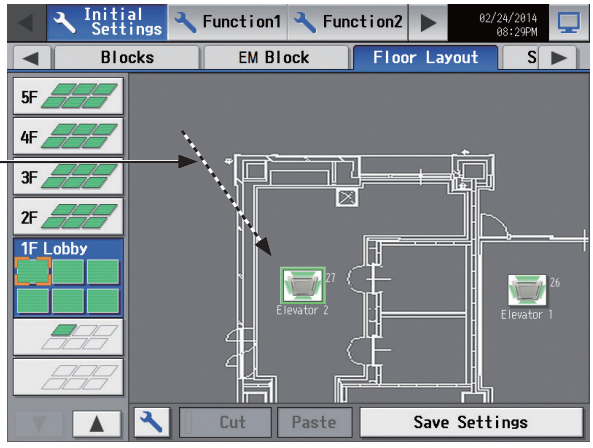


(2) Touch and hold the group icon for one second. The orange frame will change to an yellow-green frame.

Note: The group icons cannot be moved on the screen that appears when the “Unassigned groups” button.



(3) Drug and drop the icon to move anywhere within the area.



(4) Touch [Save Settings].

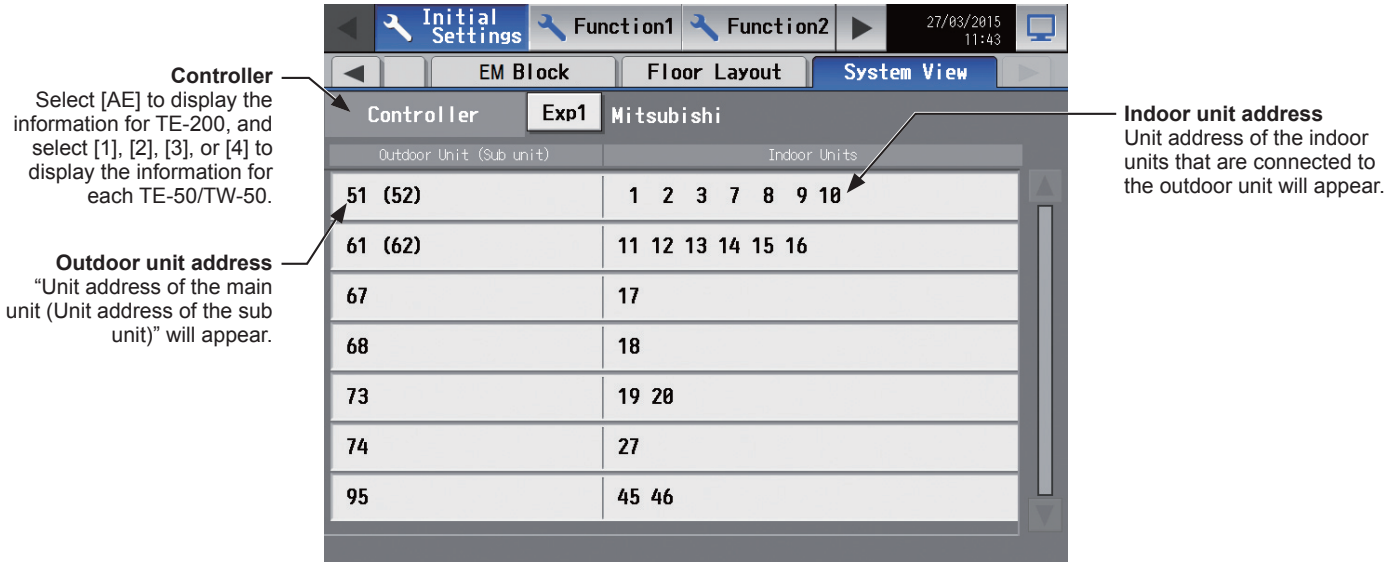
5-2-10. System View

Refrigerant system information (connection information of outdoor and indoor units) can be checked for each TE-200, TE-50, and TW-50.

Touch [Initial Settings] in the menu bar, and then touch [System View].

Note: This screen shows the information of the units that have been registered to a group and have started up successfully.

Note: The [Controller] setting will appear (only on the TE-200's LCD) when the [System Exp] setting on the [Unit Info.] screen is set to [Expand]. Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to display the information for each TE-200, TE-50, and TW-50 individually.



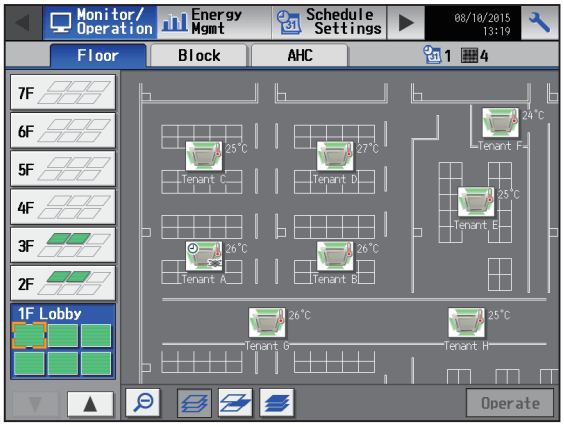
(1) Switch the [Controller] setting between [AE200] and [Exp1] through [Exp4] to check the system information for each TE-200, TE-50, and TW-50 individually. (Only on the TE-200's LCD)

5-2-11. Floor Layout settings on the Integrated Centralized Control Web

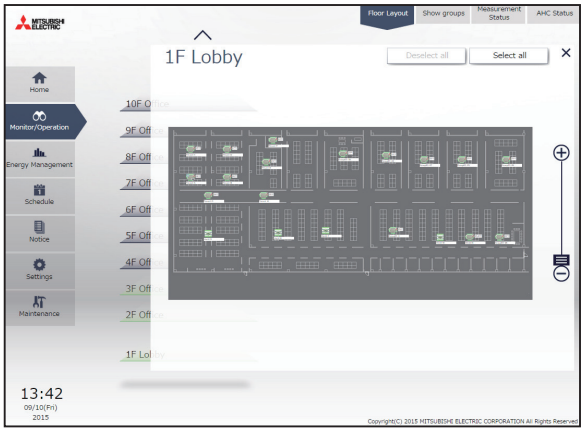
[1] Matching the floor layout on the TE-200's LCD and the Integrated Centralized Control Web

On the Integrated Centralized Control Web, a setting can be made to use the same layout as the one used on the LCD.

LCD



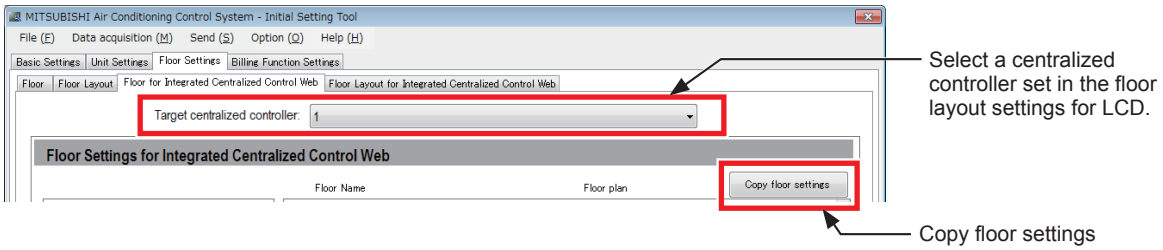
Integrated Centralized Control Web



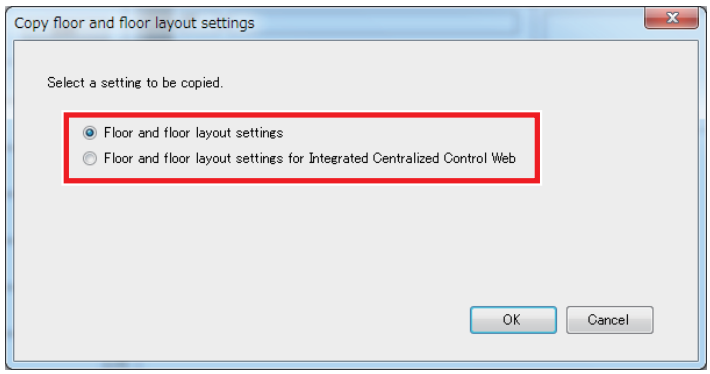
Note: On the LCD, the floor layout image is divided for display, however on the Integrated Centralized Control Web, it is not divided for display.

(1) Configure the floor layout settings for LCD for a target centralized controller. (Refer to 5-2-9 "Floor Layout" for details.)

(2) Using an AE-200/AE-50/EW-50 Initial Setting Tool, configure the floor layout settings for the Integrated Centralized Control Web. For details on how to use Initial Setting Tool, refer to the AE-200/AE-50/EW-50 Instruction Book (Initial Settings).
Click [Floor Settings] > [Floor for Integrated Centralized Control Web] and select a centralized controller set in in (1).



(3) Click [Copy floor settings] and select [Floor and floor layout settings].



(4) Click [OK].
The setting contents of the floor layout settings for LCD for the centralized controller set in (1) will be copied to the floor layout for the Integrated Centralized Control Web.

5-3. Environment settings for Integrated Centralized Control Web

5-3-1. Operating environment

The following table shows the supported operating systems and browsers for using this Integrated Centralized Control Web with PCs.

Item		Requirement
PC	CPU	1 GHz or faster (2 GHz or faster recommended)
	Memory	2 GB or more
	Screen resolution	1024 x 768 or higher (1920 x 1080 recommended)
	OS	• Microsoft® Windows® 10, Windows® 8.1, or Windows® 7 • MacOS X10.11
	Browser	• Microsoft® InternetExplorer®11 • Microsoft® Edge® • Google Chrome ™ Ver. 56 • Safari 10

Note: The operating environments were verified at the time of development, but use may not be possible depending on the actual environment in which used.

5-3-2. System Settings

To use Integrated Centralized Control Web, you need to configure the settings using Initial Setting Tool.
Refer to the AE-200/AE-50/EW-50 Instruction Book (Initial Settings) for details.

Important

- When using Initial Setting Tool, be sure to configure the settings as described in the procedures of Instruction Book (Initial Settings).

[1] Settings of the centralized controllers to be managed with Integrated Centralized Control Web

Use Initial Setting Tool to configure the settings of the centralized controllers to be managed with Integrated Centralized Control Web.

(1) In [Basic Settings] > [System Configuration] of Initial Setting Tool, specify the IP address of each centralized controller to be managed with Integrated Centralized Control Web.

(2) In [Floor Settings] > [Floor for Integrated Centralized Control Web], set the login destination centralized controller (target centralized controller) of Integrated Centralized Control Web and the management target centralized controllers (managed centralized controllers).

Note: When connecting a TE-200/TE-50/TW-50 to an existing LAN, consult the system administrator to decide the IP addresses.
Note: When using a TE-200/TE-50/TW-50-dedicated LAN, it is recommended that the TE-200 unit be assigned an IP address between the range [192.168.1.1] and [192.168.1.40], and the TE-50/TW-50 unit be assigned an IP address between the range [192.168.1.211] and [192.168.1.249].

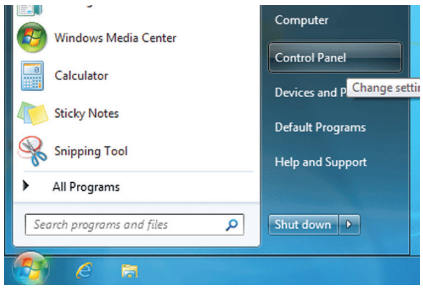
[2] Floor settings

Configure the floor layout settings, referring to 5-2-11 “Floor Layout settings on the Integrated Centralized Control Web” or the Instruction Book (Initial Settings).

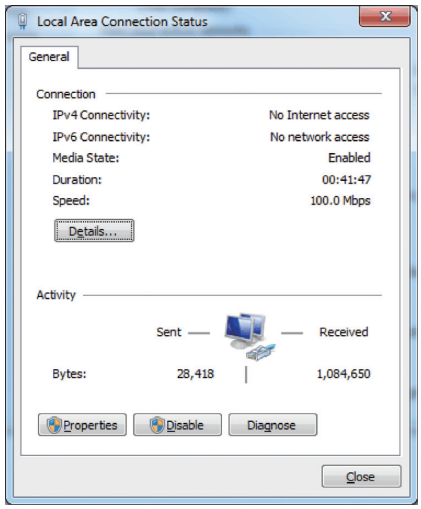
5-3-3. Setting the IP address of the PC

Follow the instructions below to set the PC's IP address to connect the Integrated Centralized Control Web and multiple centralized controllers.
The PC's IP address must have the same network address as the TE-200/TE-50/TW-50's IP address.

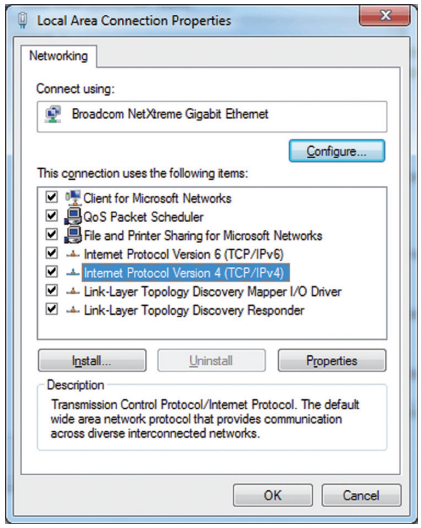
(1) Click [Control Panel] in the Start menu.



(2) Click [Network and Sharing Center]>[Local Area Connection].
In the [Local Area Connection Status] window, click [Properties].



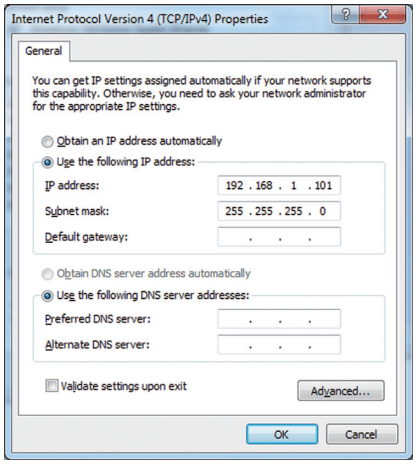
(3) Click [Internet Protocol Version 4 (TCP/IPv4)] to select it, and click [Properties].



(4) In the [Internet Protocol Version 4 (TCP/IPv4) Properties] window, check the radio button next to [Use the following IP address].
Enter the PC's IP address (e.g., [192.168.1.101]) in the [IP address] field, and enter the subnet mask [255.255.255.0] (unless otherwise specified) in the [Subnet mask] field.
In the [Default gateway] field, enter the gateway address as necessary.

Note: Consult the system administrator to decide the IP, subnet mask, and gateway addresses.

Note: Take a note of the IP address, subnet mask, and default gateway before making changes.



(5) Keep clicking [OK] or [Close] to close all windows.

5-3-4. Logging in to the Integrated Centralized Control Web

(1) Enter the web page address in the address field of the Web browser as follows:
http://[IP address of the login destination TE-200/TW-50]/control/index.html

(2) A login screen will appear.



Note: If the IP address of the TE-200/TW-50 is [192.168.1.1], the web page address is [http: //192.168.1.1/control/index.html].
Note: Default IP address of TE-200/TW-50 is [192.168.1.1].
The recommended IP address range of TE-200/TW-50 is between [192.168.1.1] and [192.168.1.40].
Note: The web page will be displayed in the same language as the operating system on the PC.
The web page can be displayed in other languages by entering the web page address as follows:

Chinese	http://[IP address of the login destination TE-200/TW-50]/control/index.html?zh
English	http://[IP address of the login destination TE-200/TW-50]/control/index.html?en
French	http://[IP address of the login destination TE-200/TW-50]/control/index.html?fr
German	http://[IP address of the login destination TE-200/TW-50]/control/index.html?de
Italian	http://[IP address of the login destination TE-200/TW-50]/control/index.html?it
Japanese	http://[IP address of the login destination TE-200/TW-50]/control/index.html?ja
Portuguese	http://[IP address of the login destination TE-200/TW-50]/control/index.html?pt
Russian	http://[IP address of the login destination TE-200/TW-50]/control/index.html?ru
Spanish	http://[IP address of the login destination TE-200/TW-50]/control/index.html?es
Turkish	http://[IP address of the login destination TE-200/TW-50]/control/index.html?tr

Note: You can add the web page address to your Favorites on the login screen for easy access in the future.
Note: If keeping the Integrated Centralized Control Web continuously running, periodically restart the PC (approximately once a week).

(3) Enter the user name and the password in the login screen, and click [Login]. A screen that shows the operation status of the air conditioning units will appear.

User	Terminal	Default user name	Default password
Building manager	• PC	administrator	admin

Note: The user name and password used for the Integrated Centralized Control Web are different from the ones used for the LCD.
Note: It is recommended to change the default user name and password so that the users other than the building managers will not be able to change the settings.

6. Maintenance

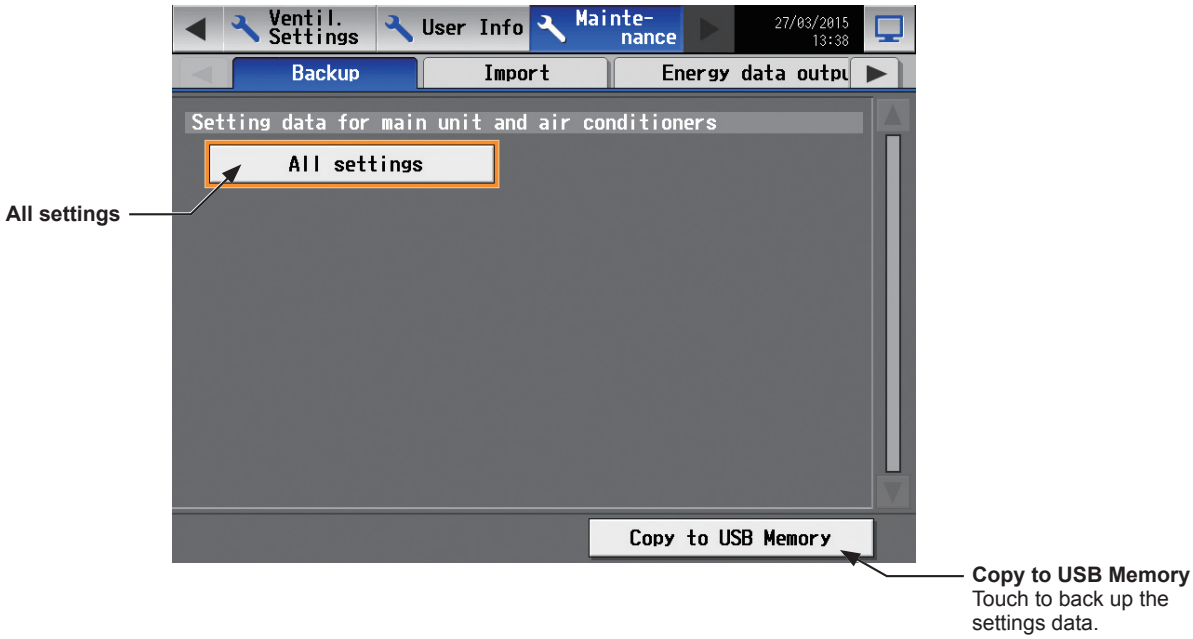
6-1. Backing up settings data

The settings data can be exported to a USB memory as a backup.

Touch [Maintenance] in the menu bar, and then touch [Backup].

Note: Use the USB memory device that meets the requirements described in 7 “Specifications”.

Note: IP address settings will not be backed up. Make sure to write them down.



Important

- The USB memory device may not be recognized if you insert and remove it within a short time. If this happens, reset the TE-200/TE-50.
- The TE-50/TW-50 data can be output from the TE-200.

(1) Remove the controller cover, and insert a USB memory device to the USB port.

(2) Touch [All settings], then touch [Copy to USB Memory].
The settings data file will be created in the root folder of the USB memory.

■ File output destination, folder name, and file name

[Root folder of the USB memory]\[Serial No.]\“SettingData”\“AE” *1

*1 “AE1,” “AE2,” “AE3,” or “AE4” when one or more TE-50/TW-50 controllers are connected

<Example>

Root folder of the USB memory
└ 12345-123 (TE-200 serial No.)
└ SettingData
├ AE — TE-200 settings file
├ AE1 — TE-50_1 settings file
├ AE2 — TE-50_2 settings file
├ AE3 — TE-50_3 settings file
└ AE4 — TE-50_4 settings file

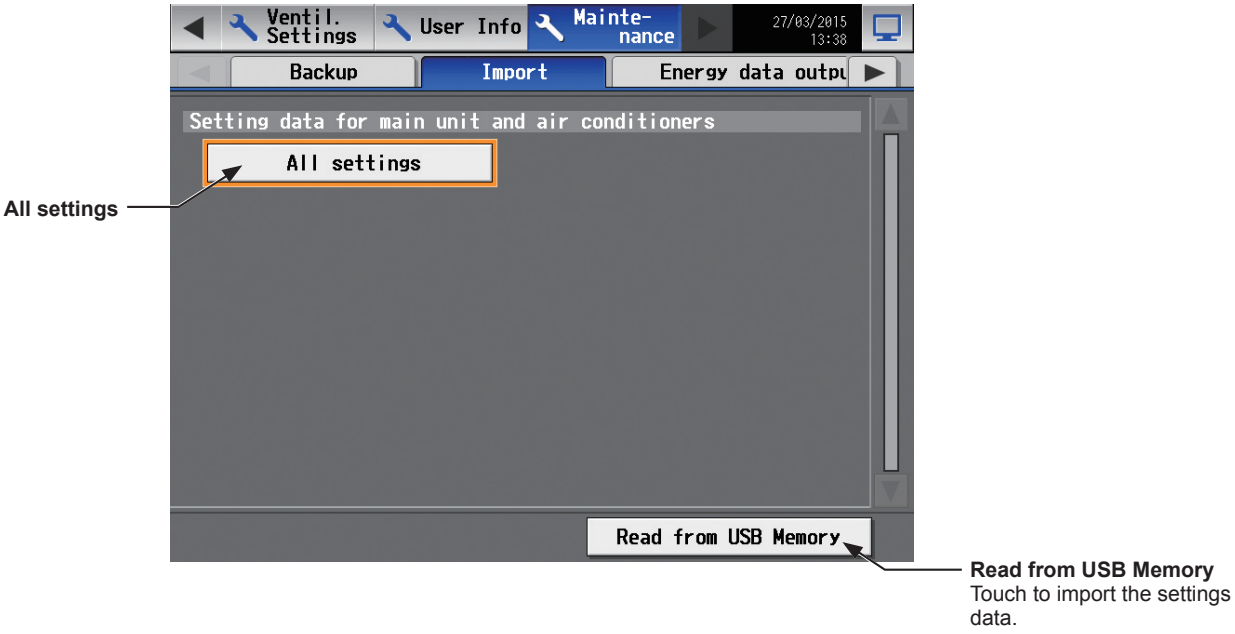
Note: It will take a few minutes to create the settings data.

Note: Do not remove the USB memory device while the data is being output.

6-2. Importing settings data

The exported data can be imported back to the TE-200/TE-50/TW-50 to restore the previous settings after the controller replacement.

Touch [Maintenance] in the menu bar, and then touch [Import].



Important

- The USB memory device may not be recognized if you insert and remove it within a short time. If this happens, reset the TE-200/TE-50/TW-50.

(1) Have the settings data to be imported ready in the root folder of the USB memory as shown below.

■ File location, folder name, and file name

[Root folder of the USB memory]\"SetupData"_[IP address]\"AE" *1

*1 "AE1," "AE2," "AE3," or "AE4" when one or more TE-50/TW-50 controllers are connected

<Example (When TE-200 LAN1 IP address is [192.168.1.1]>

Root folder of the USB memory
└── SetupData_192_168_1_1 *2
  ├── AE — TE-200 settings file
  ├── AE1 — TE-50_1 settings file
  ├── AE2 — TE-50_2 settings file
  ├── AE3 — TE-50_3 settings file
  └── AE4 — TE-50_4 settings file

*2 The folder name will not be [SetupData_192_168_001_001].

Note: Only the data that have been backed up from the TE-200 can be imported to the TE-200. The data that have been backed up from the TE-50 must be imported to the TE-50.

Note: Do not change the file name from that of when backup was performed. If the folder name or file name is different from the given name, no data can be read.

(2) Remove the controller cover, and insert a USB memory device to the USB port.

(3) Touch [All settings], then touch [Read from USB Memory].

Note: It will take a few minutes to import the settings data.

Note: Do not remove the USB memory device while the data is being imported.

Note: If the data is not read, check the folder name and the file name.

Note: If the data is not read, check if the USB memory device is inserted correctly.

6-3. Software Update

Refer to the TE-200/TE-50 Installation Manual for how to update the software for TE-200/TE-50.

6-4. Software information

Detailed information about the open source software of the TE-200/TE-50/TW-50 can be checked by accessing the following address:

https://[IP address of each TE-200, TE-50, or TW-50]/license/

* Accessible only if logged in as a maintenance user.

7. Specifications

Item			Specifications
Power supply	Rated input		100–240 VAC ± 10%; 0.3–0.2 A 50/60 Hz Single-phase
M-NET power feeding coefficient			0.75
Network interface			100BASE-TX
Ambient 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		30%–90% RH (Non-condensing)
Dimensions (W × H × D)			284 × 200 × 65 mm (11-3/16 × 7-7/8 × 2-9/16 in) * When installed, TE-200/TE-50 will protrude 25.0 mm (31/32 in) from the wall or the metal control box.
Weight			2.3 kg (5-5/64 lbs)

About USB memory device

- Use a USB memory device that meets the following conditions.
  - Supports USB 2.0
  - Formatted with FAT32 or FAT (FAT16)
  - Security function is not provided or not required to be set.
- Test the USB memory device several times before use and verify that the device functions properly. Reading data from or writing data to a USB memory device that has not been confirmed to work may cause unexpected problems. (If the data cannot be output to the USB memory device after a writing error occurs and the device is replaced, reboot the TE-200/TE-50 (turn off the power and restart). Do not use the USB memory device that has experienced writing error once.)

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:

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

MITSUBISHI ELECTRIC TRANE HVAC US LLC

HEAD OFFICE: 1340 SATELLITE BLVD, SUWANEE GA 30024 USA

WT09304X01