

GlassBrain

S2 S-System2

HMI System Operation Manual

(Common)

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1. Introduction

Congratulations on adopting "S2" (S-System2)/GlassBrain (hereinafter referred to as HMI-system) this time.

The HMI System Operation Manual (hereinafter referred to as this manual) is intended for those operating the above HMI system.

Read this manual carefully to ensure proper operation and monitoring.

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Note that we may not be liable for a result of user's operation of this system, regardless of the contents of this document.

1.1 About manuals related to HMI system

The manuals related to the HMI system include the following:

1. HMI System Operation Manual(Common):

This section describes the operation of the HMI system.

The function of the HMI system varies depending on the contract.

The categories are as follows.

1-1.HMI System Operation Manual(Common):

This section describes the operation of the HMI system.

1-2.HMI System Operation Manual(Option):

This section describes the operation of the optional functions of the HMI system.

2. HMI system faceplate manual(Common):

This section describes the faceplates used in the HMI system.

The type of HMI system faceplate varies depending on the contract details.

The categories are as follows.

2-1.HMI system faceplate manual(Common):

Describes the digital/analog faceplate.

2-2.HMI system faceplate manual(Option):

This section describes the faceplate for specific special applications.

ⓘ:Information The HMI system faceplate manual (Option) is not included depending on the system configuration and contract details.

1.2 Symbols used in this manual

The following safety symbol marks and signal terms are used in this document:

: **WARNING**

This symbol is used when it is predicted that a dangerous situation which, if not avoided, could result in serious injury, or a situation where property damage would occur.

In this manual, precautions for avoiding the danger in such cases are described.

: **CAUTION**

Describes points to be noted when the instrument is damaged or there is a risk of system trouble.

: **Note**

Describes things that you should be aware of when understanding operations and functions.

: **Information**

Describes the supplements to know the operation and function.

: **Hint**

Describes hints and tips for understanding operations and functions.

: **Reference**

It is described as a reference to know the operations and functions.

2. Precautions

Depending on the system configuration and contract details, the operating functions described in this manual may not be installed.

The following precautions must be observed when operating the HMI system.

: CAUTION

- Do not change Windows settings.
The HMI system becomes unstable.
 - Do not remove or uninstall the factory-installed application.
The HMI system will become inoperable.
 - Do not install applications other than those specified by us.
The HMI system becomes unstable.
 - Do not connect a USB memory that has not been checked for viruses or a USB device (such as a smartphone) to the USB of the PC.
Unnecessary drivers will be installed, and the HMI system will become unstable.
 - Do not connect to the Internet.
Windows Update prevents monitoring and manipulation.
Also, the HMI system may not start.
 - While the HMI system is operating, it is prohibited to open, delete, or overwrite the modified files in the following folders.
It may damage the HMI system and make it unbootable.
(Target Folder)
 - C:\ [ProjectJobName]\Conf \ Folders and files below
 - C:\ [ProjectJobName]\ LOG\ Folders and files below
 - C:\ [ProjectJobName]\SYSTEM \ Folders and files below
-

☑ :Note

This document is described in terms of the HMI system standard.

Depending on the customization, the contents may differ from those in this manual.

Understanding the Standard Configuration of the HMI System

Function:

Alarm summary, Alarm history, Report (standard specification), Group, Graphic, Trend, Tag monitor,

Event history, Operator log, SW Utility, System

Alarm name:

Alarm group: Alarm, System

Alarm level (color): emergency (magenta), heavy alarm (red), medium alarm (orange),

light alarm (yellow), information (cyan)

Monitor display color:

SP: Green, PV: Cyan, MV: Yellow

3. Starting and Stopping

This section explains how to start and stop the HMI system.

3.1 How to start the HMI system

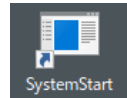
You can start the HMI system in the following ways

Depending on the system configuration and contract details, the server may start automatically when the PC power is turned on.

1. Starting the Server
2. Starting the Client
3. Starting Server/Client Configuration

3-1-1. Starting the Server

1. Turn on the PC and wait for a while.
2. After Windows starts up, you can start it up in two ways:
 - Double-click the "SystemStart" icon on Windows desktop.



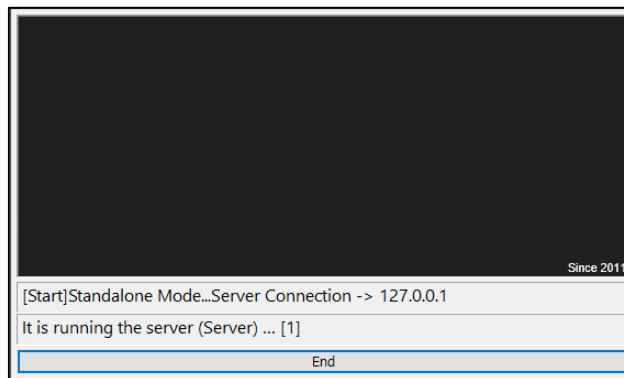
- C:\ [Project]JobName]\SYSTEM\Tool\SystemStart.exe, or Double-click
- C:\ [Project]JobName]\SYSTEM\Tool\StartupServer.exe.

①:Information SystemStart.exe checks the operation of the PC network connection environment and PLC connection status and starts the system.

StartupServer.exe starts up without checking the operation of the PC network connection environment and PLC connection status.

3. After a few moments, the HMI system boots.

①:Information The image of the startup screen varies depending on the contract details.



3-1-2. Launching a client

There are several types of client startup.

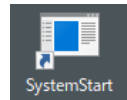
See the boot method for your system configuration.

○If the server is stand-alone

1. Turn on the PC and wait for a while.

2. After Windows starts up, you can start it up in two ways:

- Double-click the "SystemStart" icon on Windows desktop.



- Double-click C:\[Project]JobName]\SYSTEM\Tool\SystemStart.exe.

3. After a few moments, the HMI system boots.

3.2 If the HMI system cannot start

If it doesn't start up, it can be due to the following reasons

Eliminate the cause, and then restart the PC.

1. The PC and PLC are not connected to the LAN.

- Loose connectors of the PC, HUB, and PLC Ethernet cables in the control panel
- The HUB or the HUB in the control panel is not turned on.

2. The IP address of the PC has been changed.

- Check that the IP address is set correctly.

3. A device with the same IP address was added on the network.

- Disconnect the device from the network.

4. A demo mode startup dialog box was displayed.

The USB license key is not recognized.

→ Make sure that the USB license key is on the back of the PC, and then remove and insert the license key.

3.3 How to shut down 3 HMI system

To stop the HMI system, change the access level privilege of the HMI system.

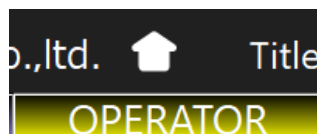
Stop the HMI system.

To stop the HMI system, proceed as follows.

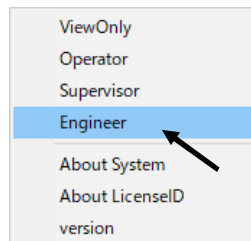
3-3-1. Changing Access Level Privileges for HMI Systems

Use the following procedure to change the access level privilege of the HMI system.

1. Click the View Current Access Level Privileges area at the bottom right of the screen.



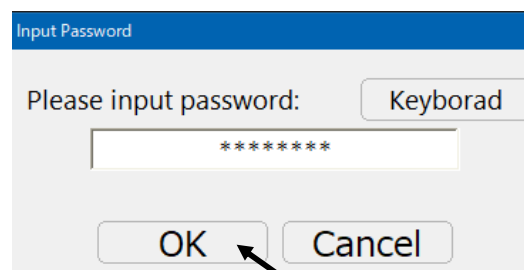
2. A menu is displayed. Click "Engineer".



3. The Password dialog box appears.

Enter the password and click the "OK" button.

Contact your HMI system administrator for the password.



4. Changes to the specified access level privilege.



3-3-2. Stopping the HMI System

To stop the HMI system, proceed as follows:

When the HMI system is terminated, the functions of value monitoring, data collection, and alarm notification is also stopped.

No effect on PLC control.

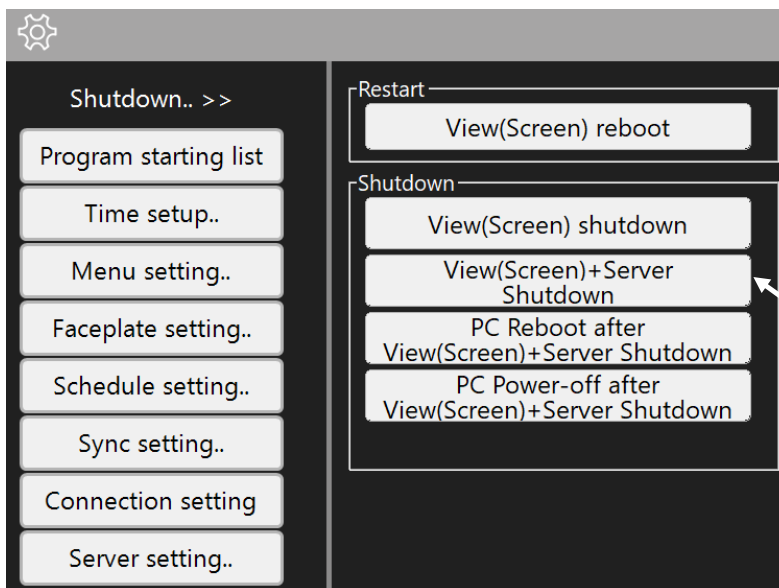
1. Click "System" in the upper-right corner of the screen.



2. This screen the "Shutdown..." window.

Clicking the "View (Screen)+Server Shutdown" button displays a dialog box.

Then click the "Yes" button.



④: Information The following types of HMI system stop are also available.

- "PC Reboot after View(Screen) + Server Shutdown": Restarts the computer after shutting down the HMI.
- "PC Power-Off after View(Screen) + Server Shutdown": After the HMI shutdown, the power to the PC is turned off.

3. The HMI system will exit after a while.

4. Screen Configuration

One-screen mode and four-screen mode are available for the screen configuration.

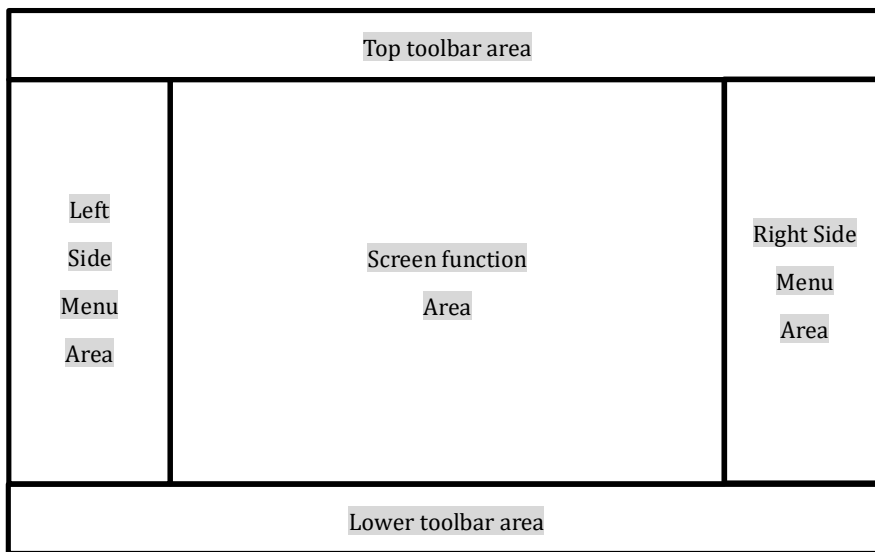
ⓘ:Information 4-screen mode may not be available depending on the system configuration and contract details.

4-1. About Screen Configuration

This section describes the outline of each screen mode.

○ Configuration of 1 Screen Mode

This mode enables you to use the single-screen function.



To the display of the menu area with the left and right menu area display/hide buttons at the left and right edges of the lower toolbar

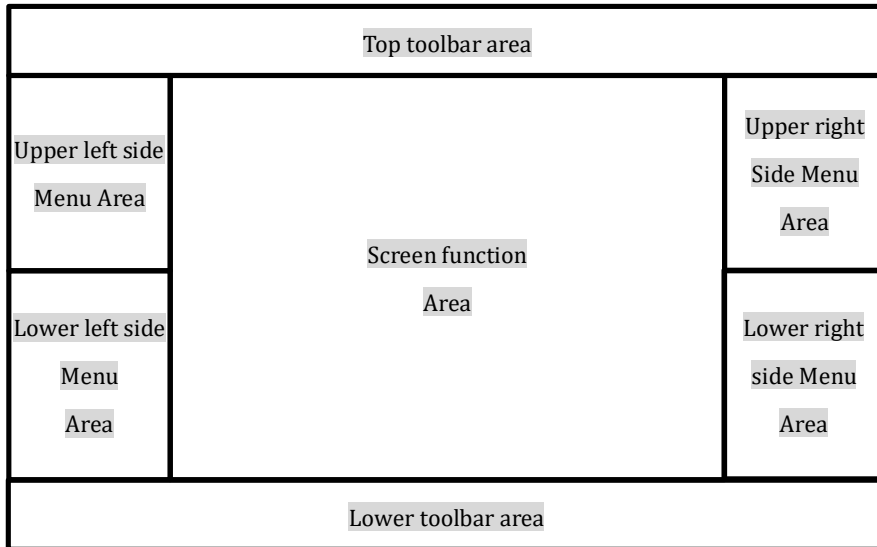
You can change it.

☑ :Note

When the left and right menu areas are hidden, the loss of the aspect There is ratio occurs on some screens due to the screen configuration.

○ Four-Screen Mode Configuration

In this mode, the four-screen display functions are available. Suitable for use with large monitors.



○ Wide Mode Configuration

The screen function can be expanded and used by the disappearance of the right menu of one screen.

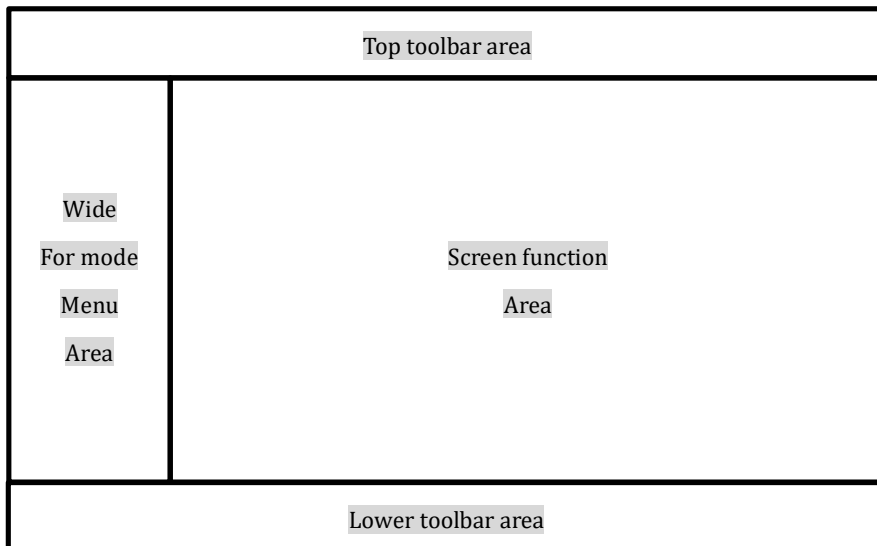
Suitable for expanding a graphic screen horizontally.

ⓘ: Information

It may not be available depending on the system configuration and contract details.

ⓘ: Information

Switching to 4-screen mode is not available when Wide mode is selected.



☑ : Note

Due to the screen configuration, the aspect ratio of some screens may be lost.

4-2. About the Top Toolbar

The upper toolbar is a common specification for each screen mode.

This section explains the screen configuration of the upper toolbar area.

①:Information When the Guide (Option) function is added, the display items will differ.

Refer to 6-4. Guide for details on using Guide.

①:Information The display items will differ when the System status (Option) function is added.

For details on using System status, refer to 6-3. System status.



This section describes each function.

4-2-1. Alarm display area

The screenshot shows the alarm display area with a table of alarm data. The table has columns for Occur Date, Recover Date, Ack Date, Group, Level, and Message. The data rows are:

Occur Date	Recover Date	Ack Date	Group	Level	Message
20/06/23 11:06:59		20/06/23 11:07:05	Furnace1	Medium	[MTIA_8]Reg. Crown LeftL(L)Value:999
20/06/23 11:05:47		20/06/23 11:05:50	Furnace1	Medium	[MTIA_10]Left StackH(H)Value:500

Displays the current alarm status.

Displays four alarm conditions.

To refer to more than 5 alarm states, drag the scroll bar on the right side with the mouse to scroll.

①:Information The alarm group name, alarm level name, and alarm color may differ depending on the system configuration and contract details.

①:Information When the Guide (Option) function is added, the display items will differ.

The alarm display items are as follows.

Occur Date: Date and time when the alarm condition occurred

Recover Date: Date and time when the alarm condition was recovered

Ack Date: Date and time when the alarm status was confirmed

Group: Alarm group name (when the system is configured as standard: All, Alarm, System)

Level: Alarm level name (system standard configuration: information, light alarm, medium alarm, heavy alarm, emergency)

Message: Displays the details of the alarm status.

The displayed contents are as follows: [Tag name]: Name: Alarm status.

Analogue display, etc., is partly displayed with [Tag name]: Name: Alarm status Value: Value when an alarm occurs. The display color varies depending on the alarm level.

For the display colors, the system standard configuration time is as follows.

①:Information The alarm level color may vary depending on the system configuration and contract details.

Emerg: Magenta

Heavy: Red

Medium: Orange

Light: Yellow

Info: cyan

The character color/background color changes depending on the alarm status.

With alarm + acknowledged: Character color: Alarm level color/Background color: White

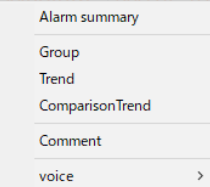
With alarm + Not confirmed: Character color: White/Background color: Alarm level color

Alarm recovered: Character color: Alarm level color/Background color: Gray

○Clicking the alarm status in the alarm display area displays the corresponding faceplate.

○Right-click the alarm status in the alarm display area to select it, and then right-click the menu is displayed.

Ack Date	Group	Level	Message
20/06/23 09:16:37	Furnace1	Medium	DMTIA-101
20/06/23 09:15:48	Furnace1		



Alarm status: The screen is expanded to Alarm summary : : alarm conditions.

Group: Expands the screen to the group corresponding to the selected tag.

①:Information It may not be available depending on the system configuration and contract details.

Trend: Opens the screen to the trend corresponding to the selected tag.

Comparison Trend: Opens the screen to the comparison trend corresponding to the selected tag.

①:Information It may not be available depending on the system configuration and contract details.

Comment: Used to leave a message regarding the tag.

①:Information It may not be available depending on the system configuration and contract details.

voice: The tag alarm name will be announced by voice.

①:Information It may not be available depending on the system configuration and contract details.

①:Information Reads a character string using the Windows voice driver.

The Windows voice driver may incorrectly translate the string recognition.

Windows voice driver (English) reads only alphanumeric characters.

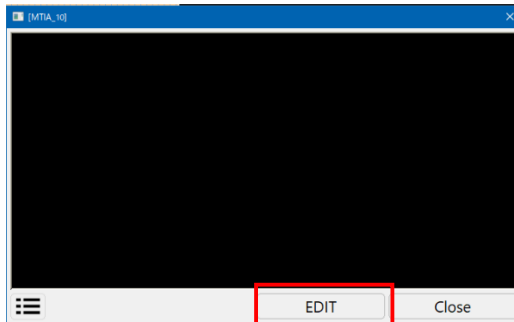
Windows voice drivers (other than Japanese) cannot convert messages with only Hiragana characters,

so, it cannot be read aloud.

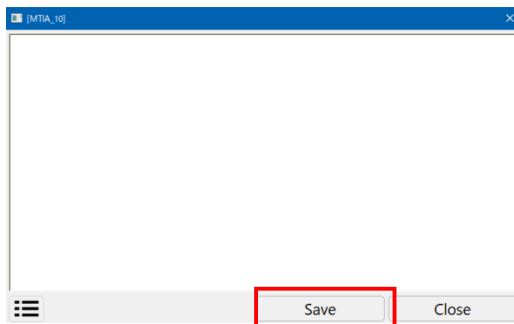
○To edit comments, follow the procedure below.

1. After displaying the comments, click the "EDIT" button.

(If the access privilege is Supervisor or higher, the setting items can be changed.)

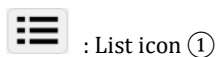


2. The screen is reversed to white, allowing you to edit characters.



3. After editing is complete, click "Save".

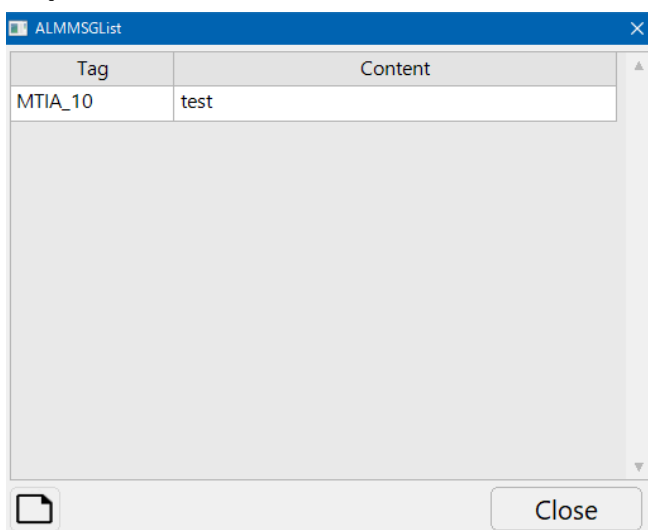
You can also display the registered comment list by clicking the list icon ① at the lower left of the screen.



○ About the comment list screen

This displays a list of registered comments.

①:Information For comment contents over multiple lines, drag the line boundary with the mouse to expand it. You can refer to it.



The functions are described below.

- To refer to the location of the comment file.



Open the location where the comment file is saved in File Explorer.

- File import with the server.



Import the comment file stored on the connected server.

- ※ Show client functions only
- ※ When imported, the comment file saved on the client is deleted.
- "Close" button: Closes the dialog box.

4-2-2. About each button

This section describes the buttons on the top toolbar.

○ "Silent" button



Silences the alarm sound. Flashes yellow when an alarm is sounding.

Move the mouse cursor over "Silent" button to display the current number of unconfirmed alarms.

①: Information The current number of unconfirmed alarms may not be displayed depending on the system configuration and contract details.

Clicking the "Silent" button scrolls the "alarm display area" display to the first line.

○ "Ack" button



Check the alarm.

Move the mouse cursor over "Ack" button to display the current number of alarms.

①: Information The current number of alarms may not be displayed depending on the system configuration and contract details.

Illuminates red when an alarm is present.

If the alarm is not confirmed, the text color blinks white/pink.

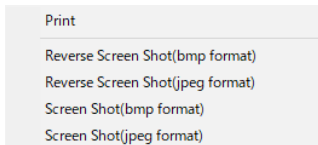
Click the "Ack" button to scroll the "Alarm display area" display to the first line.

○ "Print" button



Black-and-white reverse printing is performed on the screen.

Right-click "Print" button to display the right-click menu, and print-related functions are available.



Print: Prints Print: screen normally.

Reverse Screen Shot (bmp format): Outputs the inverted screen image to a file in bmp format.

Reverse Screen Shot (jpg format): Outputs the inverted screen image to a file in jpg format.

Screen Shot (bmp format): Outputs the screen image to a file in bmp format.

Reverse Screen Shot (jpg format): Outputs the screen image to a file in jpg format.

○ "System" button



Expand to the screen for system configuration and HMI shutdown.

4-3. About the Lower Toolbar

The lower toolbar is a common specification for each screen mode.

This section explains the screen configuration of the lower toolbar area.



This section describes each function.

- Right side menu area display/hide button (when single-screen mode and wide mode are not selected)



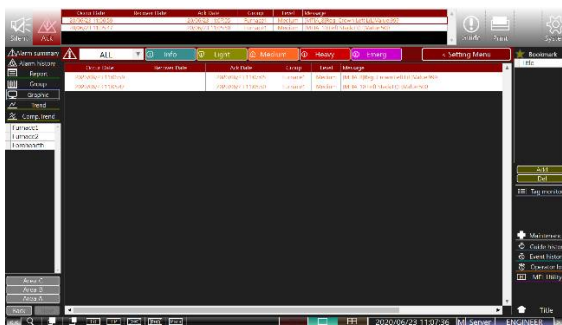
Enlarges the right menu area screen function area.

A scroll bar is displayed on the right and the bottom of the enlarged screen.

Use the scroll bar to scroll the screen.

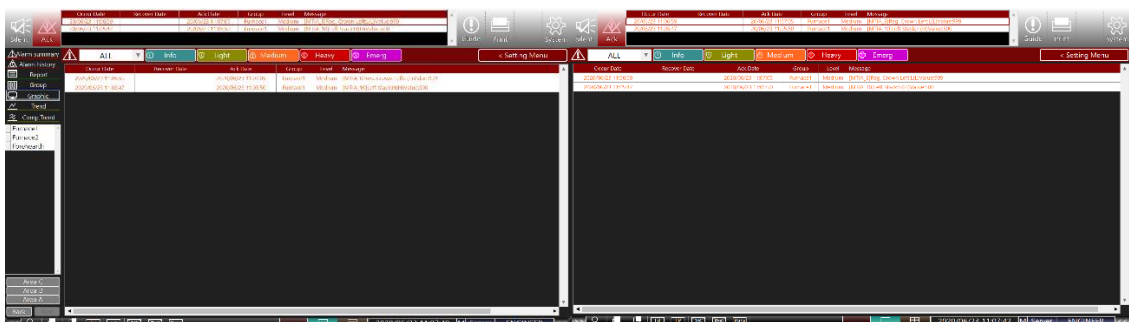
Use the following procedure for enlarging.

- Normal 1 screen mode



- The left menu is hidden

- Hidden menu is not displayed



- The advantages of hiding menus are as follows.

Alarm Status/History Screen, Various History Screens: Long names can be viewed without scrolling.

Form screen: When there are many form setting items, it can be referred without scrolling.

Trend Comparison Trend Screen: Longer graph display for easier viewing.

(The number of plots that can be displayed is fixed.)

:Note

Due to the screen configuration, the aspect ratio of some screens may be lost.

○Screen function area zoom button



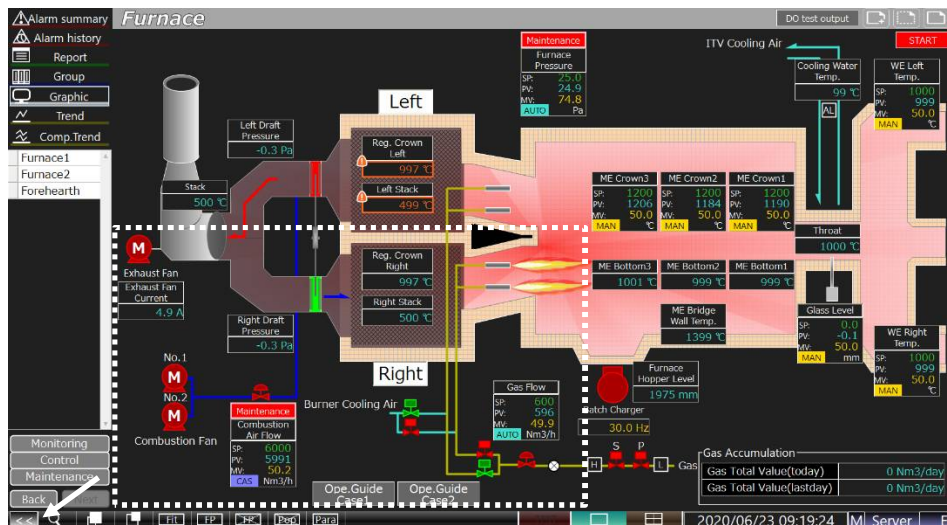
Enlarges the screen function area.

A scroll bar is displayed on the right and the bottom of the enlarged screen.

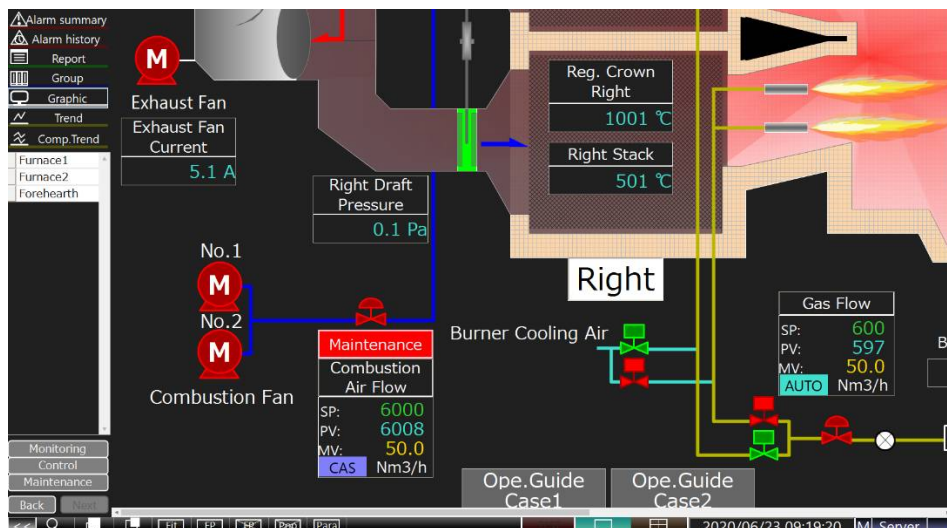
Use the scroll bar to scroll the screen.

Use the following procedure for enlarging.

1. Click the screen function area enlargement button, and drag the area of the screen function area that you want to enlarge.



2. Release the mouse button to zoom in.



○Screen Function Area Size Expansion Button



Magnifies the screen function area at the same magnification.

A scroll bar is displayed on the right and the bottom of the enlarged screen.

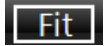
Use the scroll bar to scroll the screen.

- Screen Function Area Size Reduction Button



Reduces the screen function area to the same size.

- Screen function area enlargement reset button



Resets the enlargement of the screen function area.

- Faceplate search button



Displays the faceplate search screen.

The specified faceplate can be recalled.

For the faceplate search screen, see "4-3-1. Faceplate Search Screen".

- Pop-up faceplate all clear button



Deletes all pop-up faces displayed on the screen.

- Pop-up full screen delete button



Deletes all popup windows displayed on the screen.

- Parameter search button



Displays the parameter search screen.

Faceplates with specified parameter values can be recalled.

For the parameter search screen, see "4-3-2. Parameter Search Screen".

- TEST (Simulated) Search Button



Click the TEST (simulated input) search button to display the TEST (simulated input) parameter search screen.

If there is a TEST (simulated input) parameter in the TEST (simulated input) parameter, it lights in red.

Refer to "4-3-3. TEST (simulated input) parameter search screen" for the TEST (simulated input) parameter search screen.

- 1 Screen Mode Button



1 Switch to the screen mode.

- 4 Screen Mode Button



4 Switch to the screen mode.

ⓘ: Information It may not be available depending on the system configuration and contract details.

○PC master status lamp



The "M" lamp lights up in the PC master state, and the "M" lamp turns off if it is not the PC master.

In the case of multiple server configurations, the server PC with "M" lamp lighting becomes the time master, and to other server PCs.

Time synchronization is performed.

When all the server PCs are lit with the "M" lamp, the time synchronization between PCs is not performed.

○PC node display

Displays the node of the PC.



Server: When the PC is a server PC, "Server" is displayed.



Client: When the PC is connected to the client, "Client" is displayed.

○Access privilege display

Displays the access privileges of the HMI system.

ⓘ:Information The scope of access authority varies depending on the system configuration and contract details.

Access privileges can be of the following types.



VIEWONLY: Only monitoring can be operated.

Control operations and operations related to HMI system settings are not available.



OPERATOR: Basic operations of monitoring and control operations can be performed.

Operation related to the setting of the HMI system is not possible.



SUPERVISOR: Monitoring and control operations can be performed.

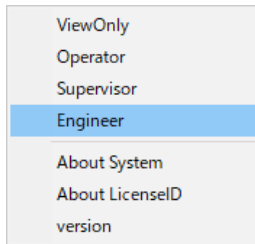
You can configure some operations related to the settings of the HMI system.



ENGINEER: Monitoring and control operations can be performed.

Allows you to configure the HMI system.

Click Show Access Privileges to display the menu.



ViewOnly: Change permissions to VIEWONLY.

Password is not required when changing from OPERATOR or higher privileges.

Operator: Change permissions to OPERATOR.

Password is not required when changing from SUPERVISOR or higher privileges.

Supervisor: Change permissions to SUPERVISOR.

Password is not required when changing from ENGINEER or higher privileges.

Engineer: Change permissions to ENGINEER.

About System: Displays a summary of the HMI-system.

About LicenseID: Displays the licensing identifier of the HMI-system.

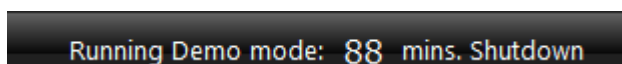
Version: Displays version of Robotics Ware PA-Panel.

○ Status display

Displays the licensing status of the HMI system in the center of the bottom toolbar.

The license USB is not inserted.

If a failure occurs, the following message is displayed.



If the following measures do not improve the problem, contact Kyoto EIC.

- Restarting the PC
- Re-inserting the License USB

4-3-1. Faceplate search screen

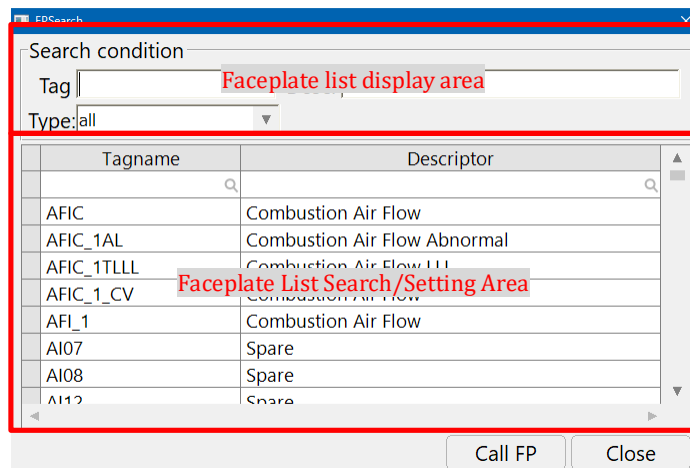
Search the faceplate.

Displays a list of faceplates of tags that meet the conditions.

Up to eight faceplates can be displayed on the screen.

①:Information The maximum number may vary depending on the system configuration and contract details.

(Screen configuration)



After the search is complete, click the buttons at the bottom of the screen.

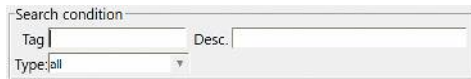
"Call FP" button: Recalls the faceplate of the selected tag.

Multiple selections are possible.

"Close" button: Closes the dialog box.

(Search and setting area for faceplate list)

Search condition items



You can narrow down the tags.

Tag: Searches for Tag: the tag name.

(This is narrowed down by partial matching of search characters.)

Desc: name: Searches for a name.

(This is narrowed down by partial matching of search characters.)

Type: narrow down by Type: for the tag faceplate type, (For the tag faceplate type,

C:\ [Project]JobName]\SYSTEM\Tag\Tag. There is a type of seatname for xlsx.)

! : CAUTION

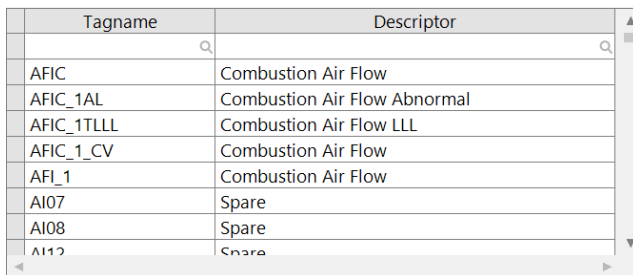
Do not change or delete the content of the file (tag. xlsx) that is the basis of the tag information of the HMI system.

Doing so may cause the HMI system to malfunction.

(Faceplate list display/Search/Sort area)

Displays faceplate for tags that match your search criteria.

List of faceplates



Tagname	Descriptor
AFIC	Combustion Air Flow
AFIC_1AL	Combustion Air Flow Abnormal
AFIC_1LLLL	Combustion Air Flow LLL
AFIC_1_CV	Combustion Air Flow
AFL_1	Combustion Air Flow
AI07	Spare
AI08	Spare
AI12	Spare

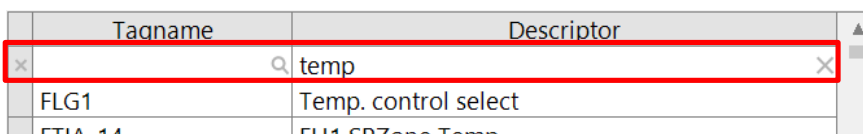
Displays a list of faceplates that can be viewed.

Double-click the list to recall the faceplate for the selected tag.

The line below the item name becomes the search area.

Enter the name to be searched in each column and enter the Enter key to search in the list.

To cancel the search, click "X" displayed in the leftmost column.



Tagname	Descriptor
X	temp
FLG1	Temp. control select
FUA_14	FUA SPZone Temp

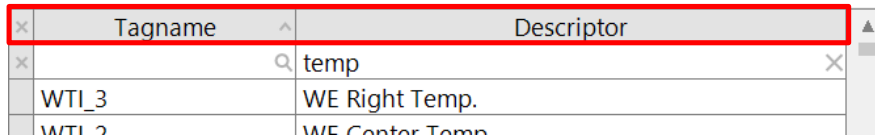
To sort by column, click the item name of the corresponding column,

Sort (sort) is possible.

In ascending order, the up arrow is displayed at the right edge of the item name, and in

descending order, the down arrow is displayed at the right edge of the item name.

To cancel sorting, click "X" displayed in the leftmost column.



Tagname	Descriptor
WTI_3	WE Right Temp.
WTI_2	WE Center Temp.

4-3-2. Parameter search screen

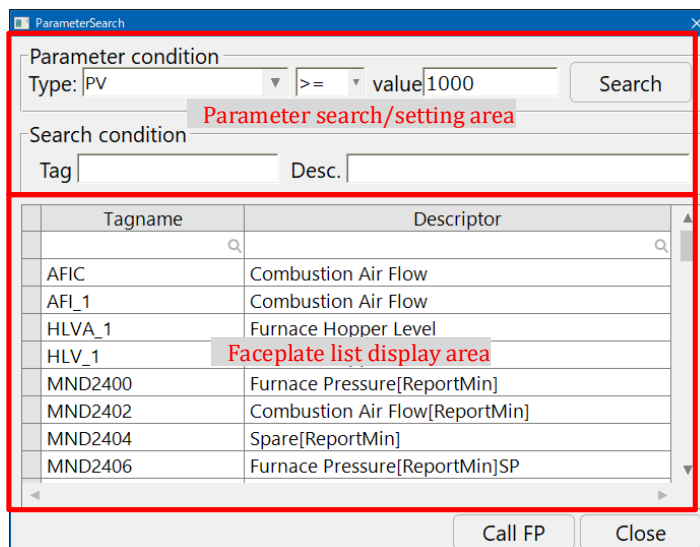
Performs a parameter search.

Displays a list of faceplates of tags that meet the conditions.

Up to eight faceplates can be displayed on the screen.

①:Information The maximum number may vary depending on the system configuration and contract details.

(Screen configuration)



ParameterSearch

Parameter condition
Type: PV >= value: 1000 Search

Search condition
Tag: Desc:

Tagname	Descriptor
AFIC	Combustion Air Flow
AFL_1	Combustion Air Flow
HLVA_1	Furnace Hopper Level
HLV_1	Furnace Hopper Level
MND2400	Furnace Pressure[ReportMin]
MND2402	Combustion Air Flow[ReportMin]
MND2404	Spare[ReportMin]
MND2406	Furnace Pressure[ReportMin]SP

Call FP Close

After the search is complete, click the buttons at the bottom of the screen.

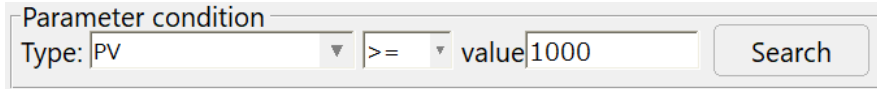
"Call FP" button: Recalls the faceplate of the selected tag.

Multiple selections are possible.

"Close" button: Closes the dialog box.

(Parameter search/setting area)

Parameter condition



You can narrow down the parameters.

Type: Select Type: the parameter type.

Select from within the combo box.

Conditional expressions have the following contents:

"=": Equal

">=": The above

"<=": Less than

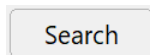
"!=": Not equal

The following values can be set.

Value for analog value

For digital values, T (TRUE) or F (FALSE)

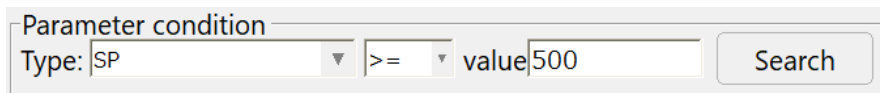
○ "Search" button



After setting the parameter conditions, click "Search" button to display the faceplate list that matches the search.

Example: Searching for Analog Values

As an example of searching for analog values, set as shown in the figure below when searching for values with SP parameters of 500 or more.



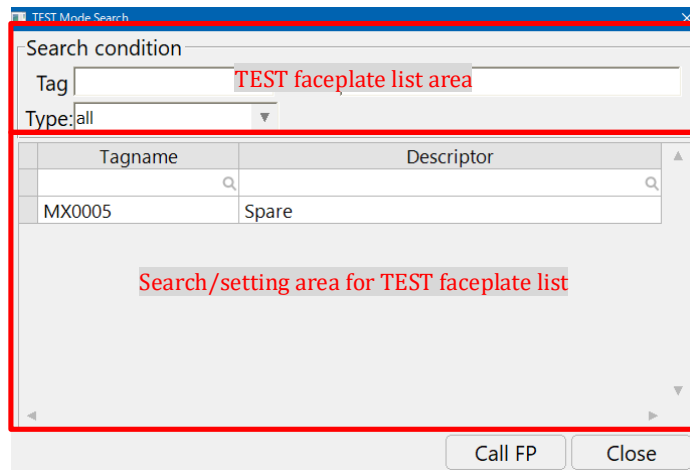
4-3-3. TEST (Simulated Input) Parameter Search Window

Search for the faceplate in TEST (simulated input) status.

Up to eight faceplates can be displayed on the screen.

①:Information The maximum number may vary depending on the system configuration and contract details.

(Screen configuration)



After the search is complete, click the buttons at the bottom of the screen.

"Call FP" button: Recalls the faceplate of the selected tag.

Multiple selections are possible.

"Close" button: Closes the dialog box.

(TEST (simulated input) faceplate list search/setting area)

Search condition items



The screenshot shows a search condition form with three input fields: 'Tag', 'Desc.', and 'Type:'. The 'Type:' field is a dropdown menu currently set to 'all'. The form is titled 'Search condition'.

You can narrow down the tags.

Tag: Searches for Tag: the tag name.

(This is narrowed down by partial matching of search characters.)

Desc: name: Searches for a name.

(This is narrowed down by partial matching of search characters.)

Type: narrow down by Type: for the tag faceplate type,.

(For the tag faceplate type,

C:\ [Project]JobName]\SYSTEM\Tag\Tag. There is a type of seatname for xlsx.)

: CAUTION

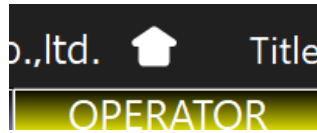
Do not change or delete the content of the file (tag. xlsx) that is the basis of the tag information of the HMI system.

Doing so may cause the HMI system to malfunction.

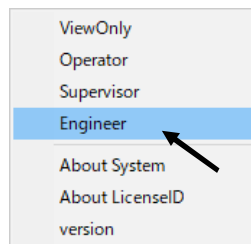
4-3-4. About Changing Access Privileges

Use the following procedure to change the access level privilege of the HMI system.

1. Click the View Current Access Level Privileges area at the bottom right of the screen.

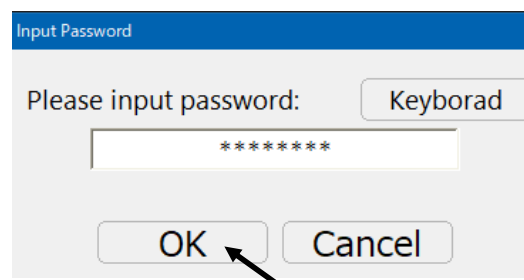


2. When the menu is displayed, click "Engineer".



3. The password dialog box appears, enter the password, and click the "OK" button.

Contact your HMI system administrator for the password.



4. Changes to the specified access level privilege.



4-4. 1 Screen Mode

The screen structure consists of the top, bottom toolbar area, left, right menu area, and screen function area.

For the upper toolbar area, refer to "4-2. About the upper toolbar".

For the lower toolbar area, see "4-3. Lower toolbar".

The left and right menu areas are described below.

4-4-1. Left menu area

This section explains the screen configuration of the left menu area.



Alarm summary: Displays the current alarm status.

Click the icon to pop up the alarm status screen.

Alarm history: Displays the alarm history.

Click the icon to pop up the alarm history screen.

Report: Display the form screen.

Click the name part to display the form group list in the screen function list list.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Group: Displays the group screen.

Click the name part to display the group list on the screen function list list.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Graphic: Displays the graphic screen.

Click the name part to display the graphic list in the screen function list list.

Trend: Displays the trend graph screen.

When you click the name part, the trend group list is displayed in the screen function list list.

Comp.Trend: Displays the comparative trend graph screen.

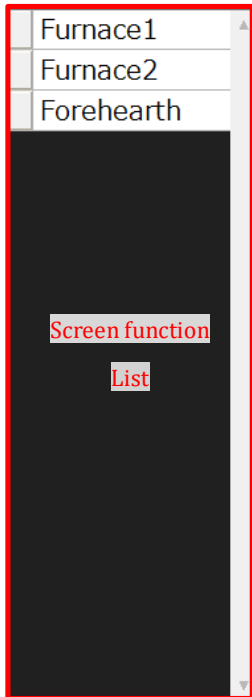
Click the name part to display the comparative trend group list in the screen function list list.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Back: Returns to the previous picture.

Next: Advances the screen one step forward.

(Screen Function List)



Click each screen function name to display the group list corresponding to the screen function.

Click the name of the group to be expanded, and then expand the window. The gray button on the left displays a pop-up window for the group name.

ⓘ: Information The maximum number of pop-up screens is 2.

The maximum number of display screens may differ depending on the system configuration and contract details.

4-4-2. Right menu area

This section explains the screen configuration of the right-side menu area.



Bookmark:

You can register frequently used screens.

(Call up screen)

Click Bookmark List to expand the window.

The gray button on the left displays a pop-up screen with the screen name.

①: Information The maximum number of pop-up screens is 2.

The maximum number of display screens may differ depending on the system configuration and contract details.

Add: This button adds Adding: add a bookmark.

I will explain how to add and delete bookmarks later.

Delete: This button deletes Del: delete a bookmark.

I will explain how to add and delete bookmarks later.

Tag monitor: Displays the group of the current tag status as a menu.

Click the icon to pop up the tag monitor screen.

File list: You can list files in a specific folder.

Click the icon to pop up the file list screen.

When you click the icon, the file list will pop up.

①: Information It may not be available depending on the system configuration and contract details.

Maintenance: You can display a list of when the registered devices

are used, when they should be inspected, and when they should be replaced.

When you click the icon, the maintenance screen will pop up.

①: Information It may not be available depending on the system configuration and contract details.

Guide history: Display the Guide history.

Clicking on the icon will pop up the Guide history.

①: Information It may not be available depending on the system configuration and contract details.

Event history: Displays Event history.

Click the icon to pop up Event history.

①: Information It may not be available depending on the system configuration and contract details.

Operator log: Displays the Operator log.

Click the icon to pop up the Operator log.

ⓘ: Information It may not be available depending on the system configuration and contract details.

MEL Utility: Displays the screen for referring to the internal data of PLCs manufactured by Mitsubishi Electric Corporation.

Clicking the icon will pop up MEL Utility window.

ⓘ: Information It may not be available depending on the system configuration and contract details.

ⓘ: Information It can be viewed with access authority of SUPERVISOR or higher. Access privileges are ENGINEER or higher and can be set.

OMR Utility: Displays the window for referring to the PLCs manufactured by Omron Corporation.

Clicking the icon will pop up OMR Utility window.

ⓘ: Information It may not be available depending on the system configuration and contract details.

ⓘ: Information It can be viewed with access authority of SUPERVISOR or higher. Access privileges are ENGINEER or higher and can be set.

Title: Displays Title: the title screen.

Click the icon to pop up the title screen.

(Bookmark addition/deletion method)

○To add a bookmark, proceed as follows:

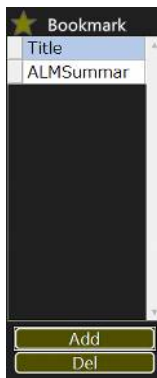
1. Display the screen function to be added and click the "Add" button.

Example: Adds alarm summary.



2. The screen is registered in Bookmark.

Example: "Alarm summary" screen is registered.

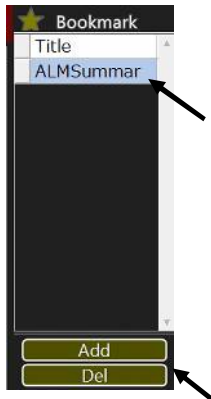


○To delete a bookmark, follow the procedure below.

1. Select the screen function you want to delete and click the "Del" button.

Example: Deletes alarm summary.

ⓘ: Information You can delete it while the screen is selected. (The selected status is canceled in 3 seconds after the screen is selected.)

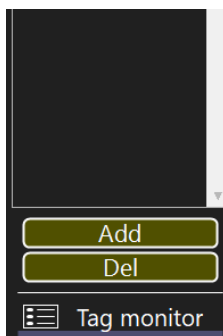


2. The screen function selected from the bookmark is deleted.

(Displaying the Tag Monitor)

The tag monitor can be displayed by selecting the group name.

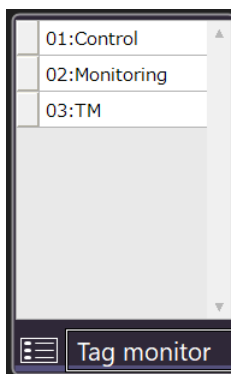
1. Click Tag Monitor.



2. The Groups table is displayed.

Click the group name to display the screen.

The gray button on the left pops up a tag monitor for the selected group name.



ⓘ: Information Double-click the "Tag monitor" part to display the first group name screen.

4-5. 4 Screen Mode

The screen configuration is the upper, lower toolbar area, upper left, lower left, upper right, lower right menu area, and screen function area.

It is configured.

For the upper toolbar area, refer to "4-2. About the upper toolbar".

For the lower toolbar area, see "4-3. Lower toolbar".

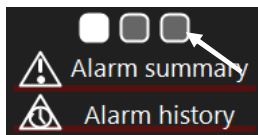
The upper left side, lower left side, upper right side, and lower right side switch the menu contents.

4-5-1. Menu Function Switching Method

For the upper left side, lower left side, upper right side, and lower right side, the menu contents are switched by the □ button on the upper side of the menu.

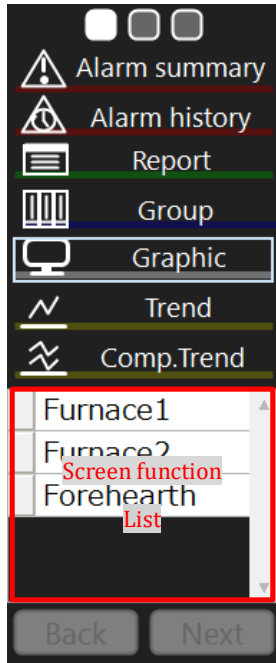
There are three types of menu functions.

These topics are discussed below.



4-5-2. Menu Function 1

This section explains the screen configuration of Menu Function 1.



button: Switch the menu function.

is the currently selected function.

Alarm summary: Displays the current alarm status.

Click the icon to pop up the Alarm summary.

Alarm history: Displays Alarm history.

Click the icon to pop up the alarm history screen.

Report: Display the form screen.

Click the name part to display the form group list in the screen

ⓘ: Information It may not be available depending on the system configuration and contract details.

Group: Displays the group screen.

Click the name part to display the group list on the screen function list list.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Graphic: Displays the graphic screen.

Click the name part to display the graphic list in the screen function list list.

Trend: Displays the trend graph screen.

When you click the name part, the trend group list is displayed in the screen function list list.

Comp.Trend: Displays the comparative trend graph screen.

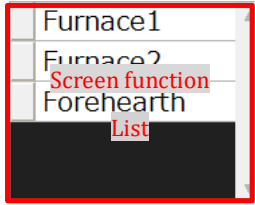
Click the name part to display the comparative trend group list in the screen function list list.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Back: Returns to the previous picture.

Next: Advances the screen one step forward.

(Screen Function List)



Click each screen function name to display the group list corresponding to the screen function.

Click the name of the group to be expanded, and then expand the window. The gray button on the left displays a pop-up window for the group name.

ⓘ: Information The maximum number of pop-up screens is 2.

The maximum number of display screens may differ depending on the system configuration and contract details.

4-5-3. Menu Function 2

This section explains the screen configuration of Menu Function 2.



button: Switch the menu function.

■ is the currently selected function.

Bookmark: You can register frequently used screens.

(Call up screen)

Click Bookmark List to expand the window.

The gray button on the left displays a pop-up screen with the screen name.

ⓘ: Information The maximum number of pop-up screens is 2.

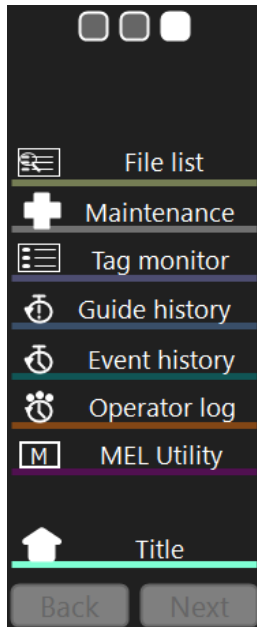
The maximum number of display screens may differ depending on the system configuration and contract details.

Back: Returns to the previous picture.

Next: Advances the screen one step forward.

4-5-4. Menu Function 3

This section explains the screen configuration of Menu Function 3.



☐ button: Switch the menu function.

■ is the currently selected function.

File list: You can list files in a specific folder.

Click the icon to pop up the file list screen.

When you click the icon, the file list will pop up.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Maintenance: You can display a list of when the registered devices

are used, when they should be inspected, and when they should be replaced.

When you click the icon, the maintenance screen will pop up.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Tag monitor: Lists the current tag status.

Click the icon to pop up the tag monitor screen.

Guide history: Display the Guide history.

Clicking on the icon will pop up the Guide history.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Event history: Displays Event history.

Click the icon to pop up Event history.

ⓘ: Information It may not be available depending on the system configuration and contract details.

Operator log: Displays the Operator log.

Click the icon to pop up the Operator log.

ⓘ: Information It may not be available depending on the system configuration and contract details.

MEL Utility: Displays the screen for referring to the internal data of

PLCs manufactured by Mitsubishi Electric Corporation.

Clicking the icon will pop up MEL Utility window.

ⓘ: Information It may not be available depending on the system configuration and contract details.

ⓘ: Information It can be viewed with access authority of SUPERVISOR or higher.

Access privileges are ENGINEER or higher and can be set.

OMR Utility: Displays the window for referring to the PLCs
manufactured by Omron Corporation.

Clicking the icon will pop up OMR Utility window.

ⓘ:Information It may not be available depending on the system configuration
and contract details.

ⓘ:Information It can be viewed with access authority of SUPERVISOR or
higher.

Access privileges are ENGINEER or higher and can be set.

Title: Displays Title: the title screen.

Click the icon to pop up the title screen.

Back: Returns to the previous picture.

Next: Advances the screen one step forward.

4-6. Wide Mode

The screen configuration consists of the top, bottom toolbar area, left menu area, and screen function area.

For the upper toolbar area, refer to "4-2. About the upper toolbar".

For the lower toolbar area, see "4-3. Lower toolbar".

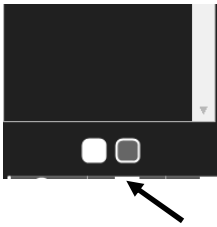
The left and right sides switch the function of the menu contents.

4-6-1. Menu Function Switching Method

For the left side and right side, the menu contents are switched by the □ button at the bottom of the menu.

There are two types of menu functions.

These topics are discussed below.



4. Description: About the Sub-Graphics Menu

In addition to the Graphics menu, there are sub-graphic menus for system configurations with many screens.

Up to six menus are available for the sub-graphics menu.

ⓘ:Information Depending on the system configuration and contract details, the sub graphic menu may not be available.

ⓘ:Information The subgraphic menu settings file is in the following location. Please use the file for reference only.

It is on the 21st to 29th lines of the Common sheet of

C:\ [Project]JobName\SYSTEM\Custom\Custom.xlsm.

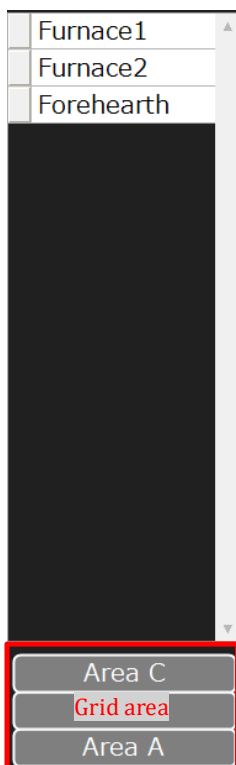
! : CAUTION

Do not change or delete the content of the file (Custom.xlsm) that is the source of the graphics sub-menu.

Otherwise malfunction of the HMI system can result.

This section describes the functions.

A grid menu button is added under the normal graphics menu.



(Grid area)

The system area has a maximum of 6 systems and the number of registration screens is a maximum of 50 screens.

Click the system button to display the graphic menu for each system and click the screen name in the menu to expand the screen.

It is a system configuration with a large number of screens and is used for applications where the system branches into several systems.

Use of the alarm button can be restricted depending on the access authority.

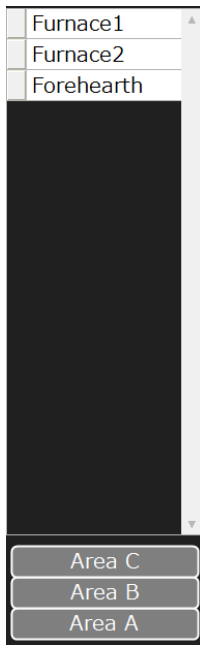
You can change the access authority according to the usage.

○1-screen mode

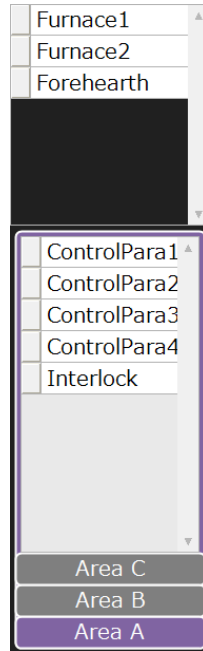
When the "Grid Area" button is clicked, the sub-graphic menu shown below appears.

Click the "Grid Area" button again to hide the sub-graphic menu.

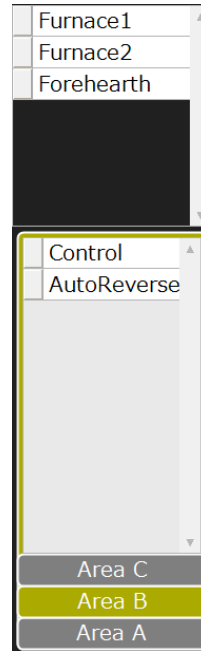
When grid is not selected



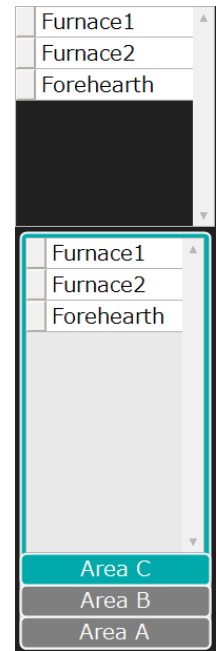
When system A is selected



When grid B is selected



When grid C is selected



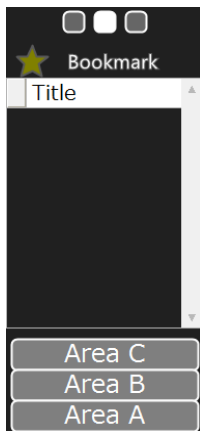
○4 Screen mode

The grid menu button is displayed in the bookmark display area.

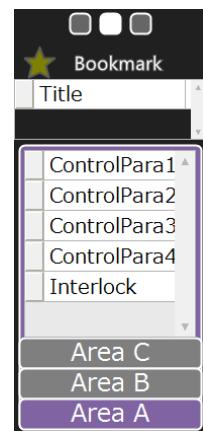
When the "Grid Area" button is clicked, the sub-graphic menu shown below appears.

Click the "Grid Area" button again to hide the sub-graphic menu.

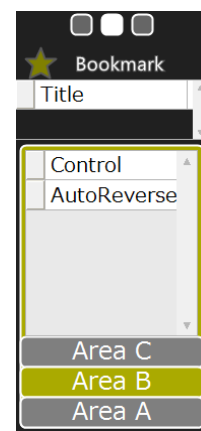
When grid is not selected



When system A is selected



When grid B is selected



When grid C is selected

