MELSOFT

# User Web Page Design Tool Operating Manual

-SW1DNN-WSVDT-MD

# SAFETY PRECAUTIONS

(Read this section before using this product.)

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product only. For the safety precautions of the programmable controller system, refer to the user's manual for the module used.

In this manual, the safety precautions are classified into two levels: "⚠WARNING" and "⚠CAUTION".

| | |
|---|---|
| ⚠ **WARNING** | Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury. |
| ⚠ **CAUTION** | Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage. |

Under some circumstances, failure to observe the precautions given under "⚠CAUTION" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety.

Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

## [DESIGN PRECAUTIONS]

### ⚠WARNING

- If a communication cable is disconnected, the network may be unstable, resulting in a communication failure of multiple stations. Configure an interlock circuit in the program to ensure that the entire system will always operate safely even if communications fail. Failure to do so may result in an accident due to an incorrect output or malfunction.

## [SECURITY PRECAUTIONS]

### ⚠WARNING

- To maintain the security (confidentiality, integrity, and availability) of the programmable controller and the system against unauthorized access, denial-of-service (DoS) attacks, computer viruses, and other cyberattacks from unreliable networks and devices via network, take appropriate measures such as firewalls, virtual private networks (VPNs), and antivirus solutions.

## [STARTUP AND MAINTENANCE PRECAUTIONS]

### ⚠CAUTION

- Especially, when a remote programmable controller is controlled by an external device, immediate action cannot be taken if a problem occurs in the programmable controller due to a communication failure. To prevent this, configure an interlock circuit in the program, and determine corrective actions to be taken between the external device and CPU module in case of a communication failure.

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# INTRODUCTION

Thank you for purchasing the Mitsubishi Electric programmable controllers.
This manual is to help users understand the User Web Page Design Tool.
Before using this product, read this manual carefully to fully understand the User Web Page Design Tool's functions/capabilities, and make sure that this product is used correctly.
Please make sure that the end users read this manual.

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# RELEVANT MANUALS

The following manuals are relevant to this product.

| Manual name <manual number> | Description |
|---|---|
| MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book <SH-081982ENG> | This describes the specifications of the Web server's functions, procedures before its operations, and its troubleshooting. |
| MELSEC iQ-R Ethernet User's Manual (Application) <SH-081257ENG> | This describes Ethernet functions, parameter settings, programming, troubleshooting, I/O signals, and buffer memory.<br>For the Web server functions, this describes the details of JavaScript components which can be used in a user Web page. |
| MELSEC iQ-F FX5 User's Manual (Communication) <SH-082625ENG> | This describes contents about built-in Ethernet port communication's functions.<br>For the Web server functions, this describes the details of JavaScript components which can be used in a user Web page. |
| MELSEC MX Controller MX-R Model User's Manual <SH-082641ENG> | Procedures before operation, specifications, devices, memory, functions, parameters, and troubleshooting of the controller |
| User Web Page Design Tool Operating Manual <SH-082315ENG> (this manual) | This describes the user Web page tool's functions and how to use it. |

# TERMS

Unless otherwise stated expressly, the following terms shall be used in this manual for an explanation.

| Terms | Description |
|---|---|
| Device | This is a device which a CPU module has in it (such as X, Y, M, D, etc.) |
| GX Works3 | The product name of the software package for the MELSEC programmable controllers |

# GENERIC TERMS AND ABBREVIATIONS

Unless otherwise specified, this manual uses the following generic terms and abbreviations.

| Generic term/abbreviation | Description |
|---|---|
| Controller | This is a generic name for MELSEC MX Controller MX-R Models. |
| CPU module | This is a generic term for the MELSEC iQ-R series CPU modules, MELSEC iQ-F series CPU modules, and MELSEC MX Controller MX-R Models. |
| FX5CPU | This is a generic name for MELSEC iQ-F series CPU modules. |
| RCPU | This is a generic name for MELSEC iQ-R series CPU modules. |

# 1 BEFORE USING THIS PRODUCT



This User Web Page Design Tool is a tool to help its users create user Web pages using Web server functions.

**Point**

To use all the functions described in this manual, install the latest version of User Web Page Design Tool.

## 1.1 Features

This section describes features of this tool.

### Easy operations enabling users to create user Web pages

Its screen operations allocate PLC and generic components and configure property settings, and thereby HTML files for user Web pages can be created, which will operate on a CPU module's Web server functions.
Components prepared beforehand are selected and their property settings are configured, and therefore its users can create HTML files without knowing HTML tags and Cascading Style Sheets (CSS).

### HTML files transferable to a CPU module

HTML files created by this tool can be transferred to an SD memory card attached to a CPU module through FTP communication.*1

*1 When a MELSEC iQ-R series CPU module is used, there are restrictions on the firmware version. (☞ Page 27 Communication)

## 1.2 Operating Environment

This section describes the operating environment of this tool.

| Item | Description |
|---|---|
| Personal computer main part | This must be a personal computer that can run Microsoft® Windows®. |
| CPU | Intel® Core® i3 2GHz or better is recommended. |
| Required memory size | 8GB or more is recommended. |
| Hard disk free space | 400MB or more |
| Display resolution | 1280 × 1024 pixels or better |
| OS (English, Japanese, and Chinese (simplified characters) versions)*1 | Windows 10 (Home, Pro, Enterprise, and Education) (64 bit)<br>Windows 11 (Home, Pro, Enterprise, and Education) (64 bit) |
| Supporting CPU modules | ■MELSEC iQ-R series*2<br>• R01CPU and R02CPU: Firmware version "18" or later*3<br>• CPU modules other than those above: Firmware version "50" or later*4<br>■MELSEC iQ-F series<br>• FX5S CPU modules: Firmware version "1.000" or later<br>• FX5UJ CPU modules: Firmware version "1.020" or later<br>• FX5U/FX5UC CPU modules: Firmware version "1.220" or later<br>■MELSEC MX Controller<br>• MX-R Models: Firmware version "03" or later |

*1 English, Japanese, and Chinese (simplified characters) are supported as the display languages of this tool. (☞ Page 26 Switch Display Language) However, selection button displays, etc. depend on an OS's language, and therefore they may be displayed in one other than those languages above.
*2 There are some restrictions on the combination of user Web page and CPU module firmware versions. (📖MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book)
*3 The communication function of this tool is supported by firmware version "30" or later.
*4 The communication function of this tool is supported by firmware version "63" or later.
The communication function cannot be used in the R00CPU module because an SD memory card is required for the function.

## Client operating environment

Clients whose operability have been confirmed by Mitsubishi Electric Corporation are as shown below. Use a Web browser that supports HTML5, CSS3, and JavaScript.

| Terminal | OS | Browser | Browser version | | |
|---|---|---|---|---|---|
| | | | MELSEC iQ-R | MELSEC iQ-F | MELSEC MX Controller |
| Personal computer | Microsoft® Windows® | Internet Explorer® | 11 | 11 | — |
| | | Microsoft® Edge | 85 | 85 | 130.0 |
| | | Google Chrome | 85 | 85 | 102.0 |
| Tablet<br>Smartphone | Android® | Mobile Google Chrome | 81 | 81 | 127.0 |
| | iOS® | Mobile Safari | 12 | 12 | 17.6 |

# 1.3 Software License



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| react | 16.13.1 | MIT License |
| react-bootstrap | 1.0.1 | MIT License |
| react-dnd | 16.13.1 | MIT License |
| react-dnd-html5-backend | 7.4.4 | MIT License |
| react-helmet | 6.1.0 | MIT License |
| react-dom | 16.13.0 | MIT License |
| react-id-generator | 3.0.0 | MIT License |
| react-router | 5.1.2 | MIT License |
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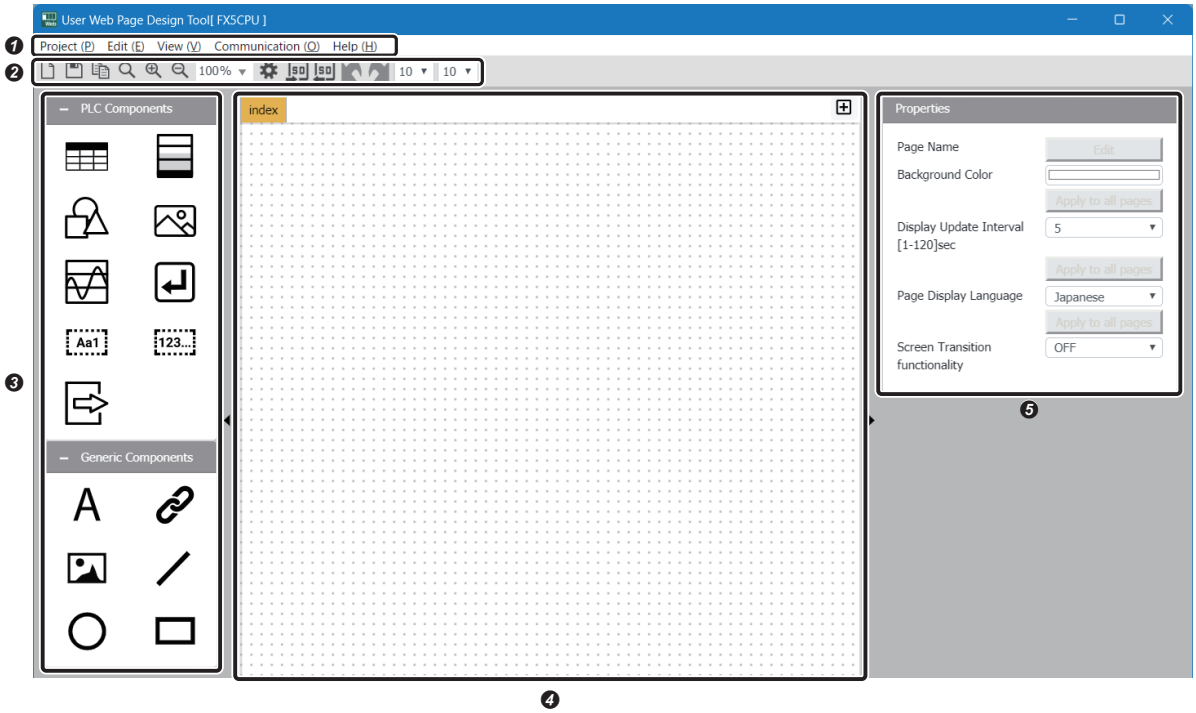
# 2 USER INTERFACE

## 2.1 Screen Structure

If a project is newly created or an existing one is opened, the following user interfaces will be displayed. When this tool is started, it will be in a state where no project is created, and only its menu bar and tool buttons will be displayed.




❶ Menu bar (☞ Page 24 Menu Bar)
❷ Tool buttons (☞ Page 32 Tool Buttons)
❸ Component window (☞ Page 33 Component Window)
❹ Design window (☞ Page 58 Design Window)
❺ Property window (☞ Page 59 Property Window)

# 2.2 Shortcut

Shortcuts can be used for this tool.

| Shortcut | Description | Reference |
|---|---|---|
| Ctrl + N | Create Project | Page 24 Create Project |
| Ctrl + O | Open | Page 24 Open |
| Ctrl + S | Save | Page 24 Save |
| Ctrl + Shift + P | Preview | Page 26 Preview |
| Alt + F4 | End Tool | Page 24 Exit |
| Delete | Delete Component Currently Selected | Page 58 Context menu |
| Ctrl + C | Copy Component Currently Selected | — |
| Ctrl + X | Cut Component Currently Selected | |
| Ctrl + V | Paste "copied" Component | |
| Ctrl + A | Select all components allocated in the design window | |
| Alt + A | Save the properties of the changed component | |
| Ctrl + Z | Undo the operation | |
| Ctrl + Y | Redo the operation canceled by [Undo] | |
| Ctrl + K | Bring the selected component to the front | |
| Ctrl + B | Send the selected component to the back | |
| Ctrl + Shift + [ | Bring the selected component forward | |
| Ctrl + Shift + ] | Send the selected component backward | |

# 2.3 Menu Bar

The menu bar can be used to conduct edit and display operations. The items below are shown on the menu bar.

- Project (☞ Page 24 Project)
- Edit (☞ Page 25 Edit)
- View (☞ Page 26 View)
- Communication (☞ Page 27 Communication)
- Help (☞ Page 31 Help)

## Project

### ■Create Project

[Project] ⇨ [Create Project]

This is used to select a CPU module's series and newly create a project. If a project is opened which is not saved yet, after having performed an operation to save it, this will create a new one.

[Range]

- FX5CPU
- RCPU
- MX Controller

### ■Open

[Project] ⇨ [Open]

This is used to read a project which is saved in a personal computer's hard disk, etc.

### ■Save

[Project] ⇨ [Save]

This is used to overwrite and save the project currently opened.

### ■Save As

[Project] ⇨ [Save As]

This is used to set a project's name and save it in a personal computer's hard disk, etc.

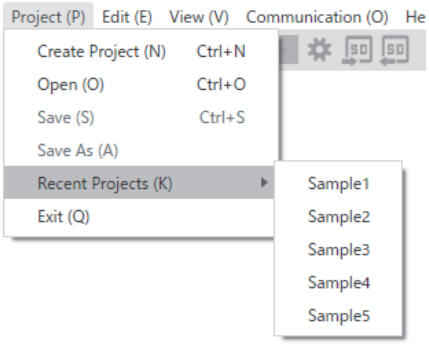
The maximum length of a project's name specifiable can be varied from 1 to 216 bytes, depending on its save location.

Prohibited characters (\, /, :, *, ?, ", <, >, |) cannot be used for a project name.

### ■Recent Projects

[Project] ⇨ [Recent Projects]

This is used to select one from projects shown on its submenu. The submenu displays projects which are opened recently. (Up to 5 projects)




### ■Exit

[Project] ⇨ [Exit]

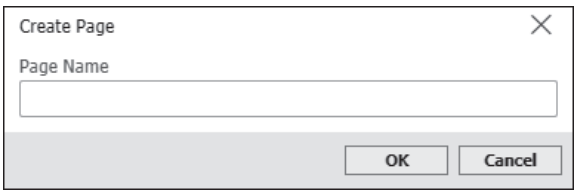
This is used to end this tool. If a project is opened which is not saved yet, after having performed an operation to save it, this will end this tool.

## Edit

### ■Create Page

[Edit] ⇨ [Create Page]

This is used to set an HTML file's name and newly create it in a project in question. It is possible to create an HTML file that contains no more than 160 pages (including its index.html) in a project.




For a file name, only half-width alphanumeric characters, "-", and "_" can be used, and no more than 26 such characters must be entered. A file name can be changed from its property window. (☞ Page 59 Property Window)

### ■Undo

[Edit] ⇨ [Undo]

This is used to undo the operation.

### ■Redo

[Edit] ⇨ [Redo]

This is used to redo the operation canceled by [Undo].

### ■Apply

[Edit] ⇨ [Apply]

This is used to save the properties of the changed component.

## View

### ■Preview

[View] ⇨ [Preview]

This is used to show the preview display of the currently displayed design window's contents in a Web browser.

### ■Show Gridlines

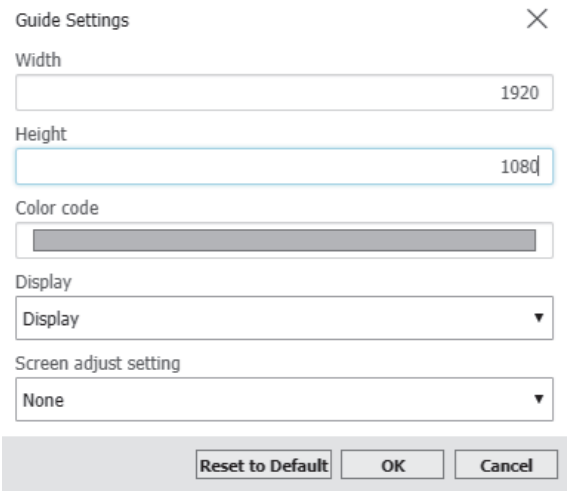
[View] ⇨ [Show Gridlines]

This can be used to display/not display gridlines in the design window. As far as a user doesn't change the display/not display of those gridlines, this situation will not be changed even if this tool is restarted.

### ■Guide Setting

[View] ⇨ [Guide Setting]

This can be used to select the display/not display of the guide in the design window. This can be used to set the guide's size.




Such guide settings will be reflected in all pages within a project in question.

[Range]

- Width: 1 to 3840
- Height: 1 to 2160
- Color code: This will be selected from the color palette.
- Display: Display/Not Display
- Screen adjust setting: None/Horizontal width adjust/Vertical width adjust/ Horizontal, Vertical width adjust

These settings can be initialized using "Reset to Default".

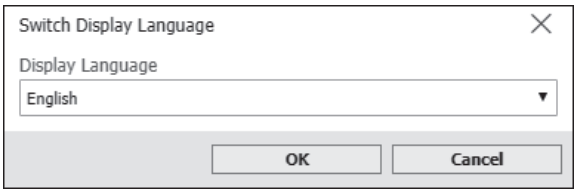
**Point**

The guide is shown only on the design window. It is not shown on a preview window or a window written to an SD memory card.

### ■Switch Display Language

[View] ⇨ [Switch Display Language]

A display language used in this tool (English, Japanese, and Chinese (simplified characters)) can be changed.



## Communication

- For MELSEC iQ-R series CPU modules, the R01CPU and R02CPU with firmware version "30" or later support this function.
- For MELSEC iQ-R series CPU modules, the R04CPU, R08CPU, R16CPU, R32CPU, R120CPU, R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, and R120ENCPU with firmware version "63" or later support this function.
- When the FX5S CPU module is used, an SD memory card module is required.

With the communication function, this tool communicates with CPU modules through FTP communication. For the FTP server settings, refer to the following.

MELSEC iQ-R Ethernet User's Manual (Application)
MELSEC iQ-F FX5 User's Manual (Communication)
MELSEC MX Controller MX-R Model User's Manual

**Point**

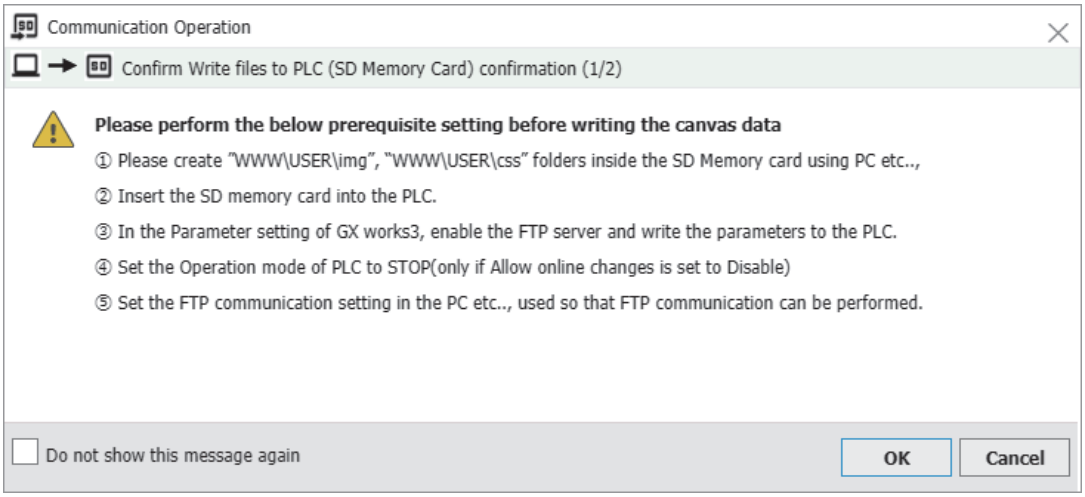
Although the controller can use FTPS as the protocol of the FTP server function, User Web Page Design Tool does not support FTPS communication. Set the protocol of the FTP server function of the controller to FTP or FTP/FTPS when communicating with User Web Page Design Tool.

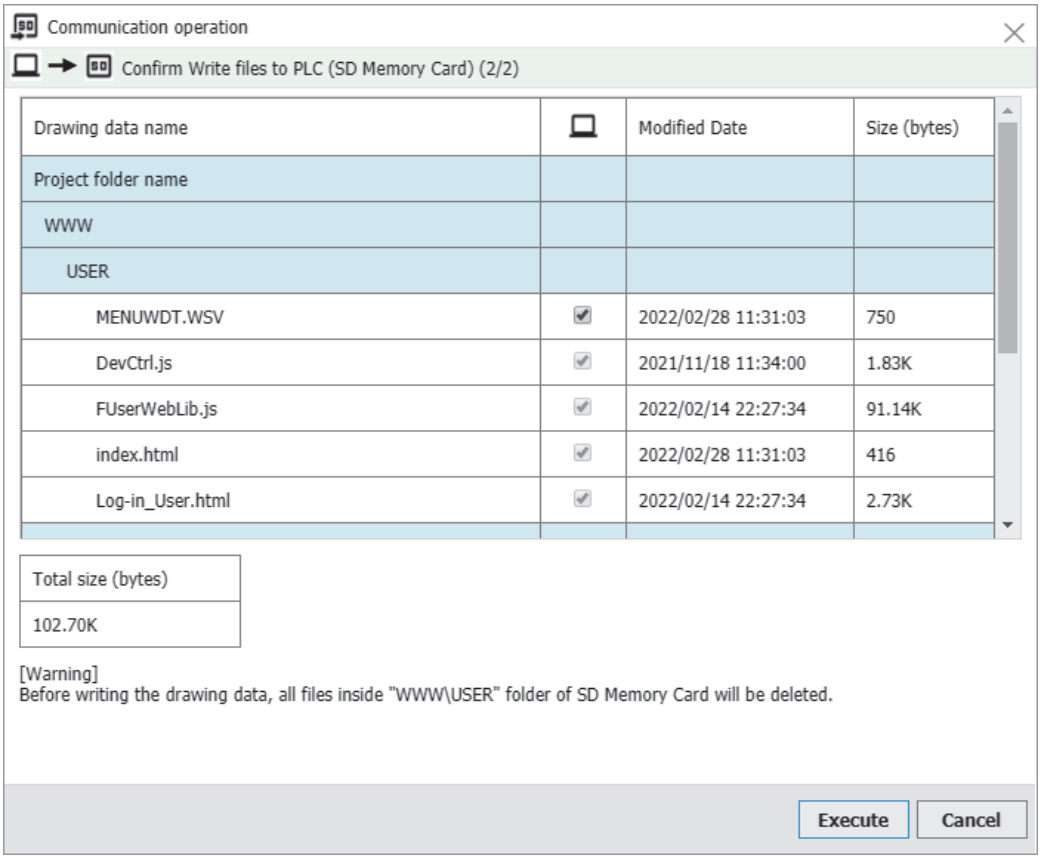
## ■Write files to PLC (SD Memory Card)

[Communication] ⇨ [Write files to PLC (SD Memory Card)]

This is used to write a project file, which is opened by this tool, to an SD memory card attached to a CPU module. However, it is necessary to create a folder hierarchy for a user Web page in such an SD memory card beforehand. (☞ Page 73 File configuration)

After all files under a WWW folder in such an SD memory card are deleted, such a project will be written to it.

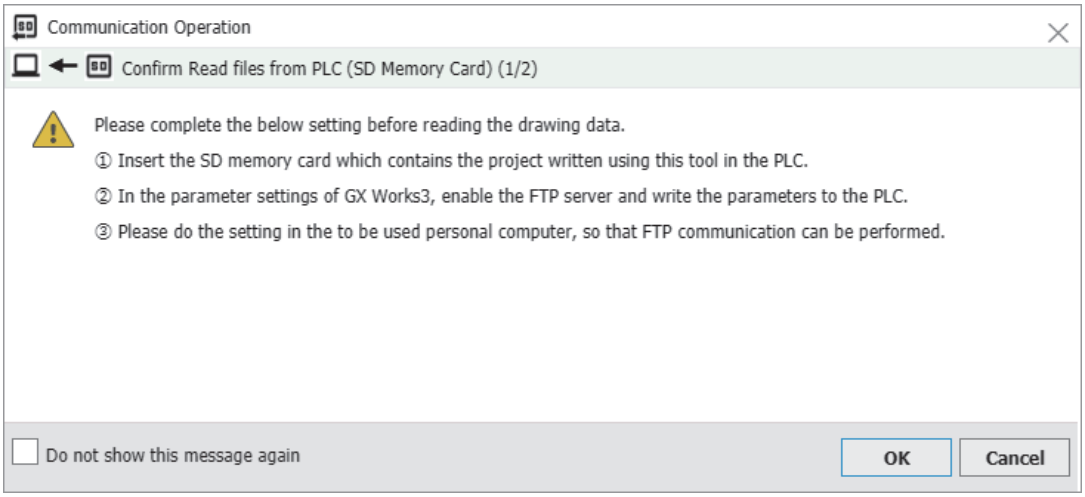


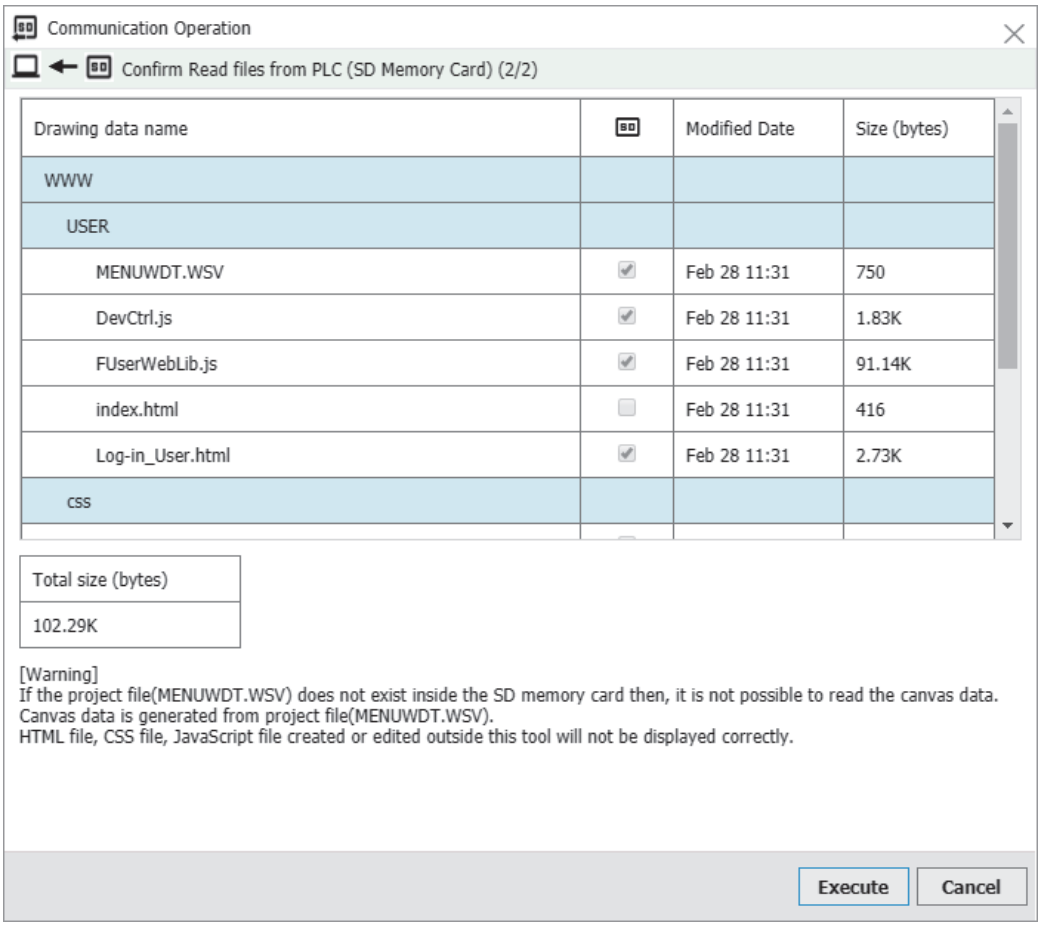



## ■Read files from PLC (SD Memory Card)

[Communication] ⇨ [Read files from PLC (SD Memory Card)]

This is used to read a project from an SD memory card attached to a CPU module.

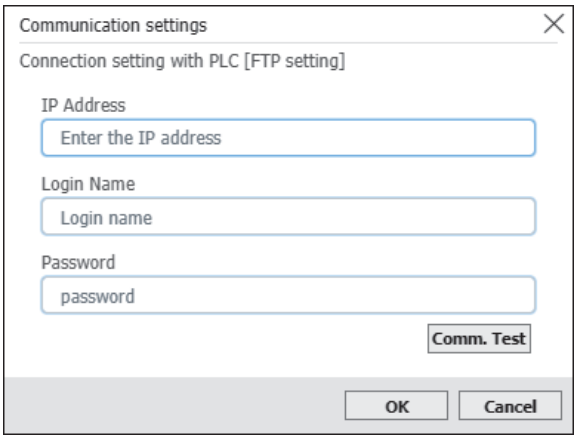


## ■Communication Settings

[Communication] ⇨ [Communication Settings]

This is used to configure FTP communication with a CPU module.




Use the same IP address and FTP server settings of a CPU module with which communication is to be conducted.

■Range (RCPU)

- IP Address: 0.0.0.1 to 223.255.255.254
- Login Name: 1 to 12 half-width characters
- Password: 0 to 32 half-width characters (alphanumeric characters and symbols)

■Range (FX5CPU)

- IP Address: 0.0.0.1 to 223.255.255.254
- Login Name: 1 to 12 half-width characters
- Password: 1 to 32 half-width characters (alphanumeric characters and symbols)

■Range (controller)

- IP Address: 0.0.0.1 to 223.255.255.254
- Login Name: 1 to 32 half-width (alphanumeric characters and symbols) and full-width characters
- Password: 6 to 64 half-width characters (alphanumeric characters and symbols)

Conduct a communication test to check if communication with a CPU module in question is possible.

It is necessary to configure a CPU module's Web server settings to view a user Web page in a browser.

📖MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book
📖MELSEC MX Controller MX-R Model User's Manual

## Help

### ■Show Help

[Help] ⇨ [Show Help]

This is used to view the help file (in PDF format).

### ■Connection to MITSUBISHI ELECTRIC FA Global Website

[Help] ⇨ [Connection to MITSUBISHI ELECTRIC FA Global Website]

This is used to view the MITSUBISHI ELECTRIC FA Global Website in a Web browser. Different websites will be displayed, depending on selected languages.

- For a case where "English" or "Chinese" is selected in "Switch Display Language": MITSUBISHI ELECTRIC FA Global Website
- For a case where "Japanese" is selected in "Switch Display Language": MITSUBISHI ELECTRIC FA Website

### ■Version

[Help] ⇨ [Version]

This is used to view information items on a software version, etc.

### ■License

[Help] ⇨ [License]

This is used to view information items on the licenses of software items used by this tool. (☞ Page 7 Software License)

# 2.4 Tool Buttons

The tool buttons are equivalent to some of the menu commands. The following table lists the tool buttons.

| Icon | Description | Reference |
|---|---|---|
| | [Create Project]<br>This is used to select a CPU module's series and newly create a project. | Page 24 Create Project |
| | [Save Project]<br>This is used to overwrite and save the project currently opened. | Page 24 Save |
| | [Copy Page]<br>This is used to set a page name and copy the design window currently displayed. | — |
| | [Preview]<br>This is used to preview the design window currently displayed, on a web browser. | Page 26 Preview |
| | [Zoom-In]<br>This is used to zoom in on the display. Each click of this button increases the zoom level by 10%. (200% maximum) | — |
| | [Zoom-Out]<br>This is used to zoom out on the display. Each click of this button decreases the zoom level by 10%. (10% minimum) | — |
| | [Zoom]<br>This is used to change the zoom level. To change the zoom level, select a percentage from the drop-down list or enter a desired percentage into this field. (Range: 10% to 200%) | — |
| | [Communication Settings]<br>This is used to configure FTP communication with a CPU module. | Page 30 Communication Settings |
| | [Write files to PLC (SD Memory Card)]<br>This is used to write a project to an SD memory card attached to a CPU module. | Page 28 Write files to PLC (SD Memory Card) |
| | [Read files from PLC (SD Memory Card)]<br>This is used to read a project from an SD memory card attached to a CPU module. | Page 29 Read files from PLC (SD Memory Card) |
| | [Undo]<br>This is used to undo the processing. | — |
| | [Redo]<br>This is used to redo the processing. | — |
| | [Snap]<br>This is used to change the travel distance when moving the selected component. | — |
| | [Grid interval]<br>This is used to change the gridlines interval. | — |

# 2.5 Component Window

This is used to view components used to configure a user Web page. Drag an individual component to the design window so that it can be allocated. (☞ Page 58 Design Window) To configure an individual item's settings, use its property window. (☞ Page 59 Property Window)

Refer to the following documents for more information about individual components.

📖MELSEC iQ-R Ethernet User's Manual (Application)

📖MELSEC iQ-F FX5 User's Manual (Communication)

📖MELSEC MX Controller MX-R Model User's Manual

## PLC components

The followings can be used as PLC components.

| Icon | Description | Reference |
|---|---|---|
| | [UserWebPage component - Data Block]<br>This is used to display specified device data items in a tabular format. Multiple devices and their directions can also be specified. | Page 34 Data Block |
| | [UserWebPage component - Level Display]<br>This is used to view the current value of a specified device as a level relative to its upper and lower limits. Different colors can be allocated to a level display component, depending on whether its current value is larger than its upper limit or smaller than its lower limit, and its direction can also be specified. | Page 36 Level Display |
| | [UserWebPage component - Graphic Display]<br>This is used to display a figure in a specified color when the current value of a specified device is within a set range. | Page 37 Graphic Display |
| | [UserWebPage component - Image Display]<br>This is used to display a specified image file when the current value of a specified device is within a set range. | Page 39 Image Display |
| | [UserWebPage component - Historic Graph]<br>This is used to display the time series of a device's values in a line graph. A device's value is read at update intervals, and when the number of allowed records is reached, the oldest record will be deleted and the line graph will shift to the left. | Page 41 Historic Graph |
| | [UserWebPage component - Input Button]<br>This is used to display a preset button that writes a value to a specified device. | Page 42 Input Button |
| | [PLC component - Character Display (ASCII)]<br>This is used to display the current value of the specified device as the text type. | Page 43 Character Display (ASCII) |
| | [PLC component - Arbitrary value write Button]<br>This is used to display a set of an input field and a write button to write an arbitrary value. | Page 45 Arbitrary value Write Button |
| | [UserWebPage component - Logout Button]<br>This is used to display a button for logging out. If a logout button is clicked, a user login page (Log-in_User.html) will appear. | Page 47 Logout Button |

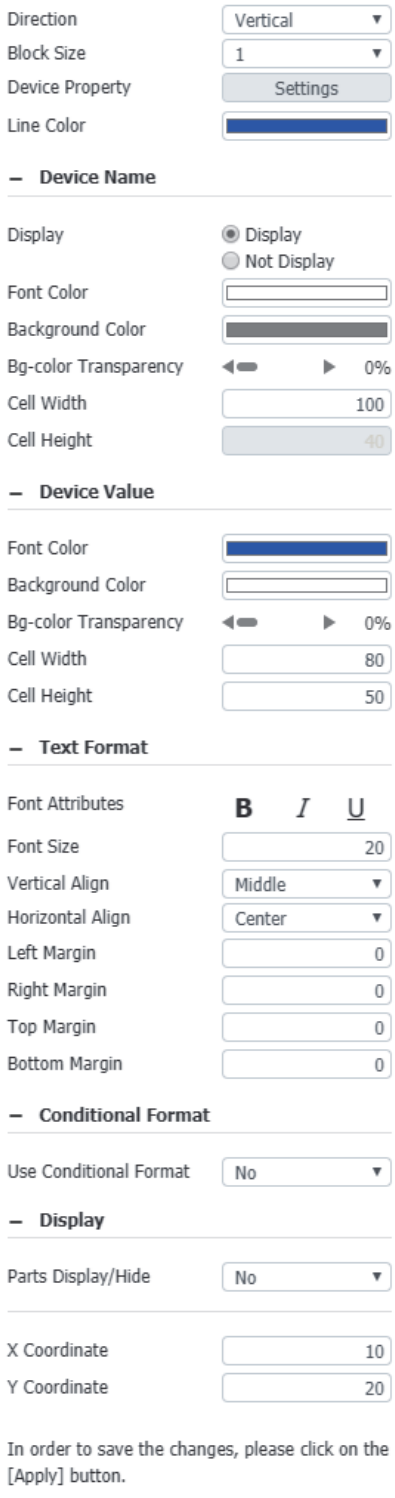
The current value of a device will be updated at regular intervals. (☞ Page 59 Display update interval)

Up to 128 PLC components can be allocated to an HTML file page. However, for logout button components, only one can be used in an HTML file.

If the input button and arbitrary value write button components are used, set "Write Device" in "Web Server Account Settings" to "Enable". (📖MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book) For an account that does not write operations, such a setting is not necessary.

## Data Block

Below are setting items which will be displayed in its property window.




| Properties | | Settings |
|---|---|---|
| Direction | | Vertical, Horizontal |
| Block Size | | 1 to 32 |
| Device Property | | ☞ Page 35 Device Property |
| Line Color | | This will be selected from the color palette. |
| Device Name | Display | Display, Not Display |
| | Font Color | This will be selected from the color palette. |
| | Background Color | |
| | Bg-color Transparency | 0% to 100% |
| | Cell Width*1 | 10 to 1920 |
| | Cell Height*2 | 10 to 1080 |
| Device Value | Font Color | This will be selected from the color palette. |
| | Background Color | |
| | Bg-color Transparency | 0% to 100% |
| | Cell Width | 10 to 1920 |
| | Cell Height | 10 to 1080 |
| Text Format | Font Attributes | Bold, italic*3, underscore |
| | Font Size | 1 to 1500 |
| | Vertical Align | Top, Bottom, Middle |
| | Horizontal Align | Left, Right, Center |
| | Left Margin | 0 to 32 |
| | Right Margin | 0 to 32 |
| | Top Margin | 0 to 32 |
| | Bottom Margin | 0 to 32 |
| Conditional Format | Use Conditional Format | Yes, No |
| | Device | ☞ Page 54 Device settings |
| | Device Number | |
| | Data Type | |
| | Range Number | 0 to 16 |
| | Setting Range Property | ☞ Page 38 Setting Range Property |
| Display | Parts Display/Hide | Yes, No |
| | Device | ☞ Page 54 Device settings |
| | Device Number | |
| | Data Type | |
| | Comparison Value | |
| | Display Condition | =, ! =, >, >=, <, <= |
| | Mode*4 | Display when ON, Display when OFF |
| X Coordinate | | 0 to 3840 |
| Y Coordinate | | 0 to 2160 |

*1 It can be edited when "Vertical" is selected as a direction.
*2 It can be edited when "Horizontal" is selected as a direction.
*3 For Japanese (two-byte characters), italics are not applied.
*4 It can be edited when "Bit" is selected as the Data Type.

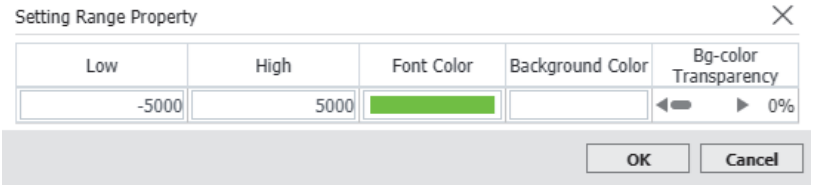
## ■Device Property

A device to be displayed in a data block can be registered. Up to 32 devices can be registered per data block.

| Properties | Settings |
|---|---|
| Display Label | No more than 100 characters |
| Preview Value | No more than 100 characters |
| Language | Comment 1, Comment 2, Comment 3 |
| Device | ☞ Page 54 Device settings |
| Data Type | |
| Display Format | |
| + | This is used to add a line to a displayed device. |
| - | This is used to delete a line from a displayed device. (The second line or thereafter) |

## ■Setting Range Property

The settings of Conditional Format can be set. Depending on the number of ranges set, the number of settings will vary.




| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Font Color | This will be selected from the color palette. |
| Background Color | This will be selected from the color palette. |
| Bg-color Transparency | 0% to 100% |

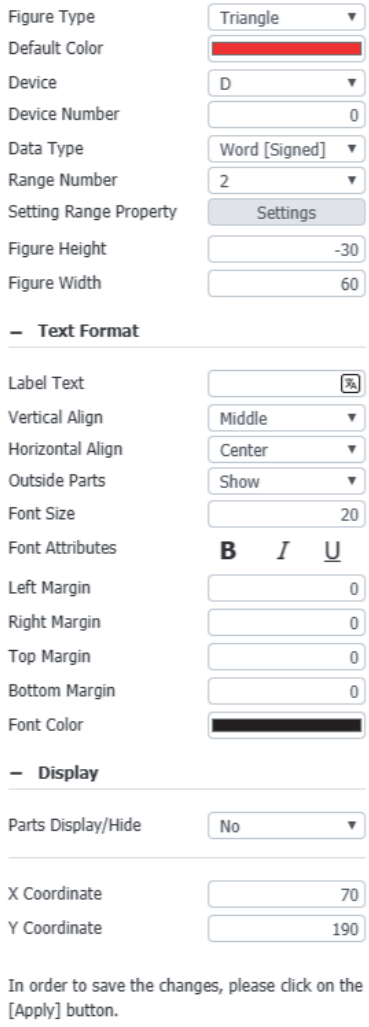
## Level Display

Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
| | Direction | | Vertical, Horizontal |
| | Device | | ☞ Page 54 Device settings |
| | Device Number | | |
| | Data Type | | |
| | Level Color | | This will be selected from the color palette. |
| | Upper Color | | |
| | Lower Color | | |
| | Background Color | | |
| | Upper Value | | ☞ Page 56 Settings(Decimal) |
| | Lower Value | | |
| | Alarm Value | Display Line | Display, Not Display |
| | | Line Color | This will be selected from the color palette. |
| | | Upper Value | ☞ Page 56 Settings(Decimal) |
| | | Lower Value | |
| | Current Value | Display | Display, Not Display |
| | | Color | This will be selected from the color palette. |
| | | Background Color | |
| | | Width | 10 to 3840 |
| | | Height | 10 to 2160 |
| | Level Length | | 10 to 3840 |
| | Level Width | | 10 to 2160 |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

## Graphic Display

Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Figure Type | | Triangle, Rectangle, and Ellipse |
| | Default Color | | This will be selected from the color palette. |
| | Device | | ☞ Page 54 Device settings |
| | Device Number | | |
| | Data Type | | |
| | Range Number | | 1 to 5 |
| | Setting Range Property | | ☞ Page 38 Setting Range Property |
| | Figure Height*1 | | -2160 to -1, 1 to 2160 |
| | Figure Width | | 10 to 3840 |
| | Text Format | Label Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | | Vertical Align | Top, Bottom, Middle |
| | | Horizontal Align | Left, Right, Center |
| | | Outside Parts | Show, Hide |
| | | Font Size | 1 to 1500 |
| | | Font Attributes | Bold, italic*2, underscore |
| | | Left Margin | 0 to 32 |
| | | Right Margin | 0 to 32 |
| | | Top Margin | 0 to 32 |
| | | Bottom Margin | 0 to 32 |
| | | Font Color | This will be selected from the color palette. |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*3 | Display when ON, Display when OFF |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

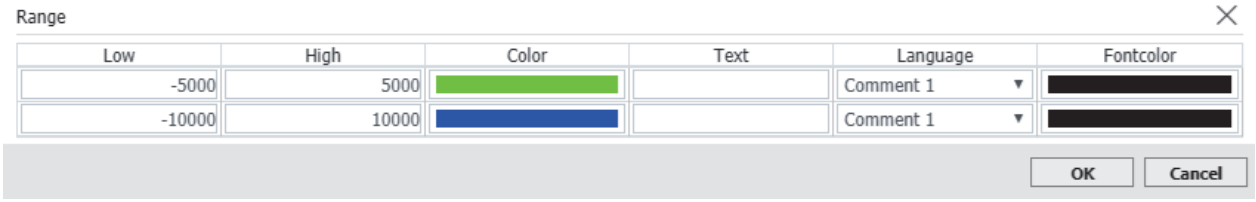
*1 If the "Figure Type" property is "Triangle", setting a negative number will result in a downward triangle.

*2 For Japanese (two-byte characters), italics are not applied.

*3 It can be edited when "Bit" is selected as the Data Type.

## ■Setting Range Property

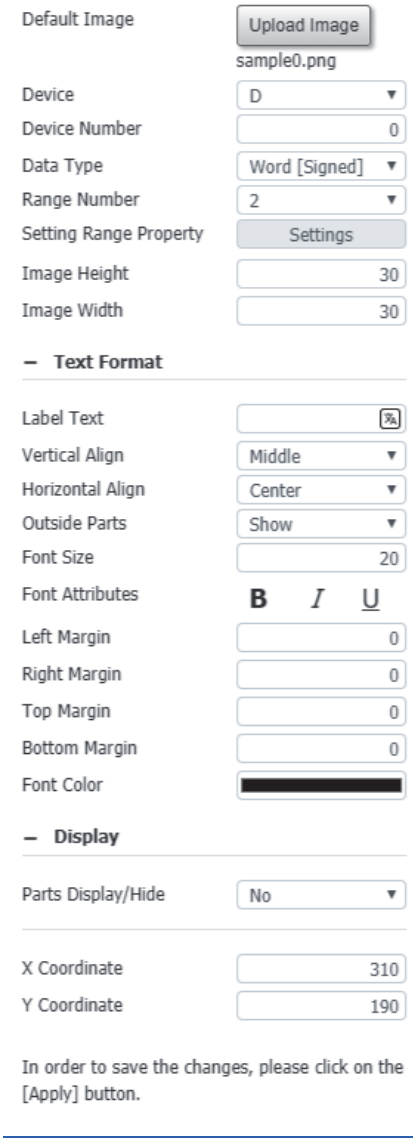
A figure's upper and lower limits can be set to change its color. Depending on the number of ranges set, the number of settings will vary.




| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Color | This will be selected from the color palette. |
| Text | No more than 100 characters |
| Language | Comment 1, Comment 2, Comment 3 |
| Fontcolor | This will be selected from the color palette. |

## Image Display

Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Default Image*1 | | ☞ Page 57 Image file |
| | Device | | ☞ Page 54 Device settings |
| | Device Number | | |
| | Data Type | | |
| | Range Number | | 1 to 5 |
| | Setting Range Property | | ☞ Page 38 Setting Range Property |
| | Image Height | | 10 to 3840 |
| | Image Width | | 10 to 2160 |
| | Text Format | Label Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | | Vertical Align | Top, Bottom, Middle |
| | | Horizontal Align | Left, Right, Center |
| | | Outside Parts | Show, Hide |
| | | Font Size | 1 to 1500 |
| | | Font Attributes | Bold, italic*2, underscore |
| | | Left Margin | 0 to 32 |
| | | Right Margin | 0 to 32 |
| | | Top Margin | 0 to 32 |
| | | Bottom Margin | 0 to 32 |
| | | Font Color | This will be selected from the color palette. |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*3 | Display when ON, Display when OFF |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

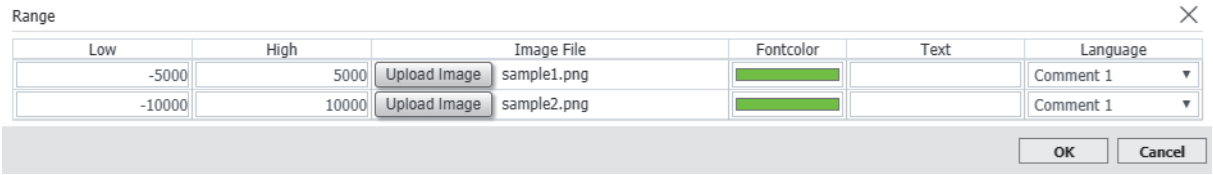
*1 This is an image when the value of a device in question is out of a setting range in "Setting Range Property".

*2 For Japanese (two-byte characters), italics are not applied.

*3 It can be edited when "Bit" is selected as the Data Type.

## ■Setting Range Property

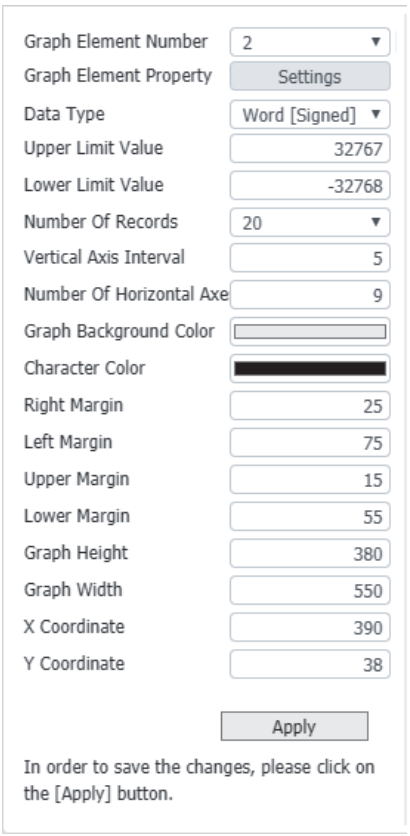
Upper and lower limits can be set to change a displayed image. Depending on the number of ranges set, the number of settings will vary.




| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Image File | ☞ Page 57 Image file |
| Fontcolor | This will be selected from the color palette. |
| Text | No more than 100 characters |
| Language | Comment 1, Comment 2, Comment 3 |

## Historic Graph

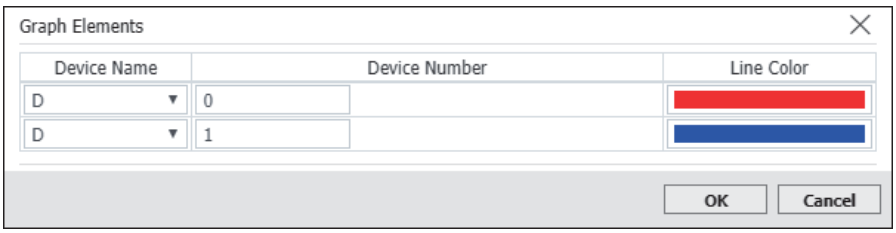
Below are setting items which will be displayed in its property window.

| Property window | Properties | Settings |
|---|---|---|
|  | Graph Element Number | 1 to 32 |
| | Graph Element Property | ☞ Page 41 Graph Element Property |
| | Data Type | ☞ Page 54 Device settings |
| | Upper Limit Value | ☞ Page 56 Settings(Decimal) |
| | Lower Limit Value | |
| | Number Of Records | 5 to 100 |
| | Vertical Axis Interval | 0 to 99 |
| | Number Of Horizontal Axes | 0 to 99 |
| | Graph Background Color | This will be selected from the color palette. |
| | Character Color | This will be selected from the color palette. |
| | Right Margin | 1 to 3840 |
| | Left Margin | 1 to 3840 |
| | Upper Margin | 1 to 2160 |
| | Lower Margin | 1 to 2160 |
| | Graph Height | 10 to 2160 |
| | Graph Width | 10 to 3840 |
| | X Coordinate | 0 to 3840 |
| | Y Coordinate | 0 to 2160 |



### ■Graph Element Property

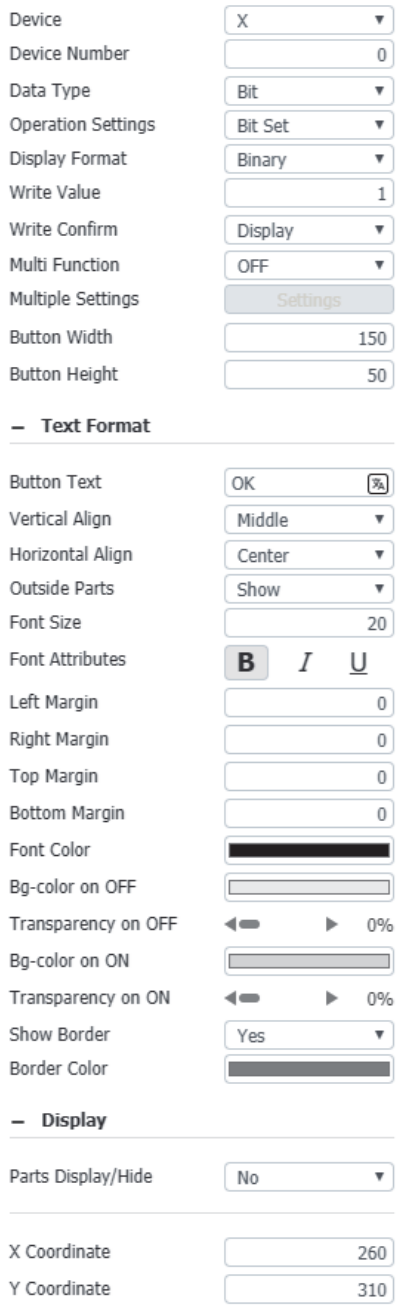
This is used to set a device whose graph will be displayed. Depending on the number of graph elements, the number of settings will vary.




| Properties | Settings |
|---|---|
| Device Name | ☞ Page 54 Device settings |
| Device Number | |
| Line Color | This will be selected from the color palette. |

## Input Button

Below are setting items which will be displayed in its property window.

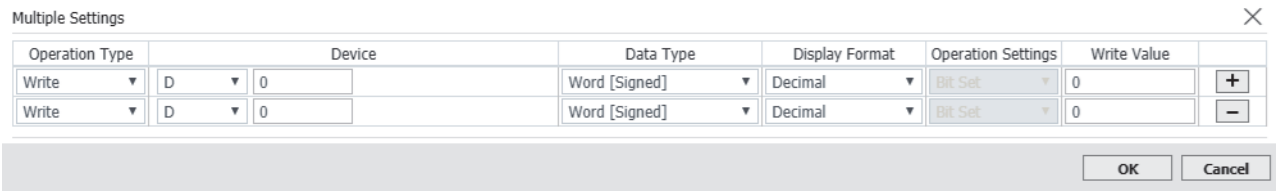



| Properties | | Settings |
|---|---|---|
| Device | | ☞ Page 54 Device settings |
| Device Number | | |
| Data Type | | |
| Operation Settings | | Bit Set: Clicking the button sets the write value.<br>Bit Momentary: Clicking the button turns on/off a bit. |
| Display Format | | ☞ Page 54 Device settings |
| Write Value | | ☞ Page 56 Settings |
| Write Confirm | | Display, Not Display |
| Multiple Function | | ON, OFF |
| Multiple Settings | | ☞ Page 43 Multiple Settings |
| Button Width | | 10 to 3840 |
| Button Height | | 10 to 2160 |
| Text Format | Button Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | Vertical Align | Top, Bottom, Middle |
| | Horizontal Align | Left, Right, Center |
| | Outside Parts | Show, Hide |
| | Font Size | 1 to 1500 |
| | Font Attributes | Bold, italic*1, underscore |
| | Left Margin | 0 to 32 |
| | Right Margin | 0 to 32 |
| | Top Margin | 0 to 32 |
| | Bottom Margin | 0 to 32 |
| | Font Color | This will be selected from the color palette. |
| | Bg-color on OFF | This will be selected from the color palette. |
| | Transparency on OFF | 0% to 100% |
| | Bg-color on ON | This will be selected from the color palette. |
| | Transparency on ON | 0% to 100% |
| | Show Border | Yes, No |
| | Border Color | This will be selected from the color palette. |
| Display | Parts Display/Hide | Yes, No |
| | Device | ☞ Page 54 Device settings |
| | Device Number | |
| | Data Type | |
| | Comparison Value | |
| | Display Condition | =, ! =, >, >=, <, <= |
| | Mode*2 | Display when ON, Display when OFF |
| X Coordinate | | 0 to 3840 |
| Y Coordinate | | 0 to 2160 |

*1 For Japanese (two-byte characters), italics are not applied.
*2 It can be edited when "Bit" is selected as the Data Type.

## ■Multiple Settings

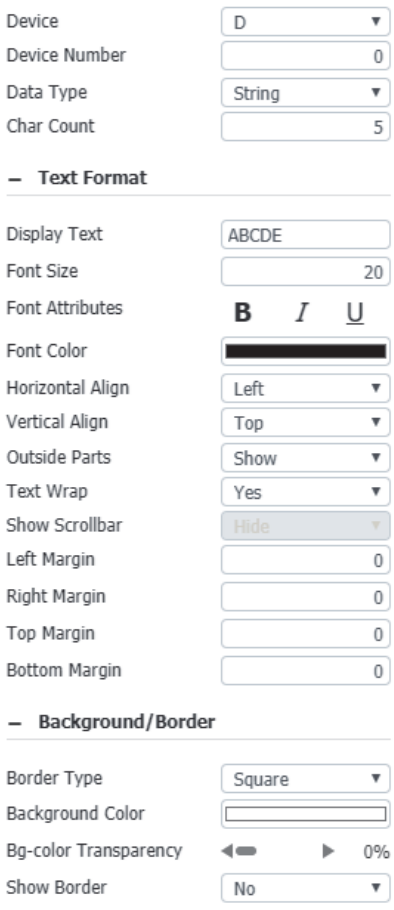
The settings can be configured by turning on the multiple function.



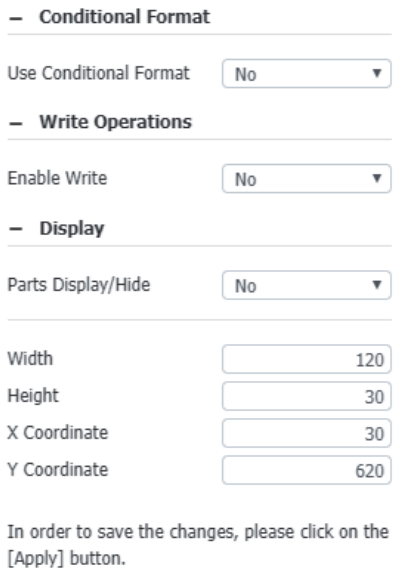

| Properties | Settings |
|---|---|
| Operation Type | Write |
| Device | ☞ Page 54 Device settings |
| Data Type | |
| Display Format | |
| Operation Settings | Bit Set: Clicking the button sets the write value.<br>Bit Momentary: Clicking the button turns on/off a bit. |
| Write Value | 0, 1 |
| + | This is used to add a line to a displayed device. |
| - | This is used to delete a line from a displayed device. (The second line or thereafter) |

# Character Display (ASCII)

Below are setting items which will be displayed in its property window.



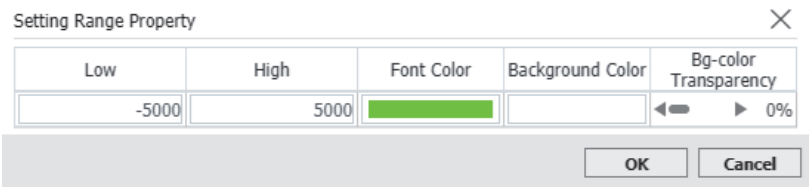

| Properties | | Settings |
|---|---|---|
| Device[*1] | | ☞ Page 54 Device settings |
| Device Number[*1] | | |
| Data Type | | |
| Char Count[*2*3*4] | | 1 to 64 |
| Write Confirm | | Display, Not Display |
| Text Format | Display Text[*5] | Input up to 64 characters |
| | Font Size | 1 to 1500 |
| | Font Attributes | Bold, italic[*6], underscore |
| | Font Color | This will be selected from the color palette. |
| | Horizontal Align | Left, Right, Center |
| | Vertical Align | Top, Bottom, Middle |
| | Outside Parts | Select Show/Hide |
| | Text Wrap | Yes, No |
| | Show Scrollbar | Select Show/Hide |
| | Left Margin | 0 to 32 |
| | Right Margin | 0 to 32 |
| | Top Margin | 0 to 32 |
| | Bottom Margin | 0 to 32 |
| | Font Color | This will be selected from the color palette. |
| Background/ Border | Border Type | Select Square/Rounded Corners |
| | Background Color | This will be selected from the color palette. |
| | Bg-color Transparency | 0% to 100% |
| | Show Border | Yes, No |

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Conditional Format | Use Conditional Format | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Range Number | 0 to 16 |
| | | Setting Range Property | ☞ Page 44 Setting Range Property |
| | Write Operations | Enable Write | Yes, No |
| | | Write Confirm | Select Display/Not Display |
| | | Write Condition | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Write Condition | =, ! =, >, >=, <, <= |
| | | Mode*7 | Display when ON, Display when OFF |
| | | Write Disabled Font Color | This will be selected from the color palette. |
| | | Write Disabled Bg color | This will be selected from the color palette. |
| | | Write Disabled Transparency | 0% to 100% |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*7 | Display when ON, Display when OFF |
| | Width | | 0 to 3840 |
| | Height | | 0 to 2160 |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

*1 This device is the start device of the text data to be displayed.
*2 Two characters per word
*3 The characters are displayed in order of the lower and upper devices.
*4 The characters that can be displayed are 0x20 to 0x7e in the ASCII code (half-width alphanumeric characters).
*5 Set the initial value. The size of the text box can be checked in the preview.
*6 For Japanese (two-byte characters), italics are not applied.
*7 It can be edited when "Bit" is selected as the Data Type.

## ■Setting Range Property

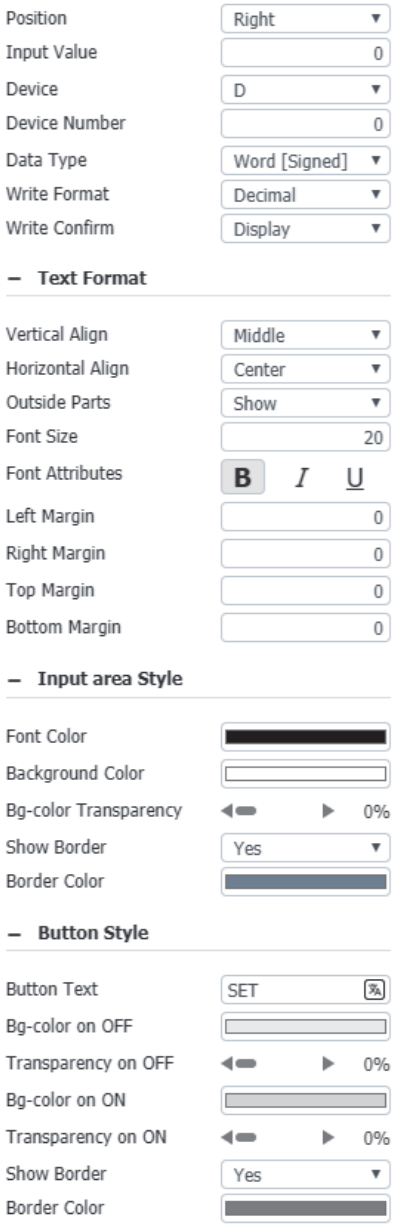
The settings of Conditional Format can be set. Depending on the number of ranges set, the number of settings will vary.

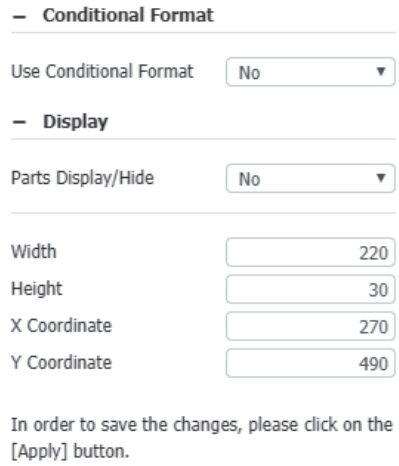



| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Font Color | This will be selected from the color palette. |
| Background Color | This will be selected from the color palette. |
| Bg-color Transparency | 0% to 100% |

## Arbitrary value Write Button

Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Position | | Left, Right, Top, and Bottom |
| | Input Value | | ☞ Page 56 Settings |
| | Device | | ☞ Page 54 Device settings |
| | Device Number | | |
| | Data Type | | |
| | Write Format | | |
| | Write Confirm | | Display, Not Display |
| | Text Format | Vertical Align | Top, Bottom, Middle |
| | | Horizontal Align | Left, Right, Center |
| | | Outside Parts | Show, Hide |
| | | Font Size | 1 to 1500 |
| | | Font Attributes | Bold, italic[*1], underscore |
| | | Left Margin | 0 to 32 |
| | | Right Margin | 0 to 32 |
| | | Top Margin | 0 to 32 |
| | | Bottom Margin | 0 to 32 |
| | Input area Style | Font Color | This will be selected from the color palette. |
| | | Background Color | This will be selected from the color palette. |
| | | Bg-color Transparency | 0% to 100% |
| | | Show Border | Yes, No |
| | | Border Color | This will be selected from the color palette. |
| | Button Style | Button Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | | Bg-color on OFF | This will be selected from the color palette. |
| | | Transparency on OFF | 0% to 100% |
| | | Bg-color on ON | This will be selected from the color palette. |
| | | Transparency on ON | 0% to 100% |
| | | Show Border | Yes, No |
| | | Border Color | This will be selected from the color palette. |

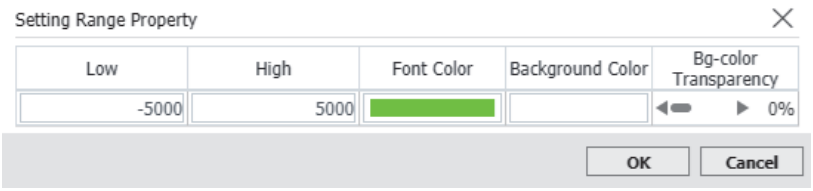
| Property window | Properties | | Settings |
|---|---|---|---|
|  | Conditional Format | Use Conditional Format | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Range Number | 0 to 16 |
| | | Setting Range Property | ☞ Page 46 Setting Range Property |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*2 | Display when ON, Display when OFF |
| | Width | | 10 to 3840 |
| | Height | | 10 to 2160 |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

*1 For Japanese (two-byte characters), italics are not applied.

*2 It can be edited when "Bit" is selected as the Data Type.

## ■Setting Range Property

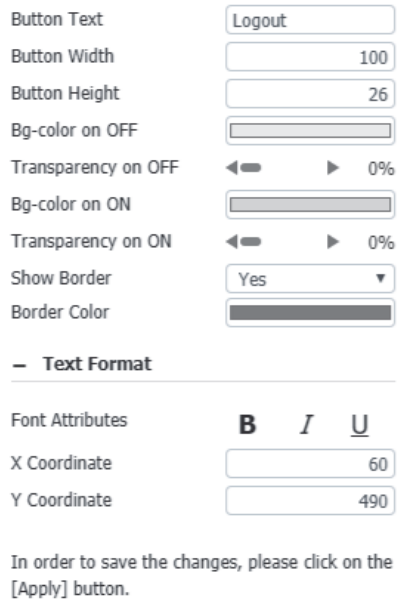
The settings of Conditional Format can be set. Depending on the number of ranges set, the number of settings will vary.




| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Font Color | This will be selected from the color palette. |
| Background Color | This will be selected from the color palette. |
| Bg-color Transparency | 0% to 100% |

## Logout Button

Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Button Text | | No more than 100 characters |
| | Button Width | | 10 to 3840 |
| | Button Height | | 10 to 2160 |
| | Bg-color on OFF | | This will be selected from the color palette. |
| | Transparency on OFF | | 0% to 100% |
| | Bg-color on ON | | This will be selected from the color palette. |
| | Transparency on ON | | 0% to 100% |
| | Show Border | | Yes, No |
| | Border Color | | This will be selected from the color palette. |
| | Text Format | Font Attributes | Bold, italic*1, underscore |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

*1 For Japanese (two-byte characters), italics are not applied.

# Generic components

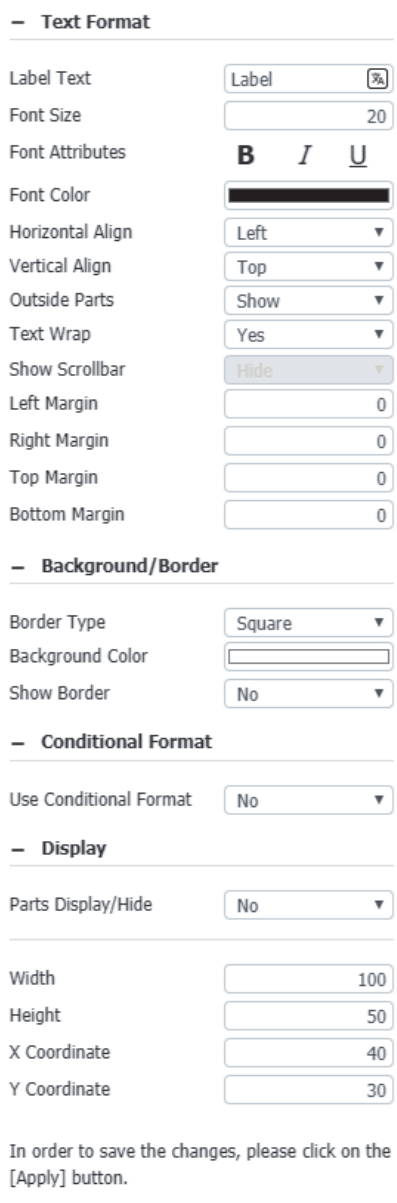
For generic components, the followings can be used.

| Icon | Description | Reference |
|---|---|---|
| | [Label]<br>This is used to display a label. | Page 49 Label |
| | [Hyper Link]<br>This is used to display a label to which a hyper link is set. Click the label to jump to the hyper link destination. A hyper link to an HTML page in a project and one to an external URL can be set. | Page 51 Hyper Link |
| | [Image Tag]<br>This is used to display an image file. | Page 52 Image Tag |
| | [Line]<br>This is used to display a line in a specified area. | Page 52 Line |
| | [Ellipse]<br>This is used to display an ellipse. | Page 53 Ellipse |
| | [Rectangle]<br>This is used to display a rectangle. | Page 53 Rectangle |

Up to 256 generic components can be allocated to an HTML file page.

## Label

Below are setting items which will be displayed in its property window.

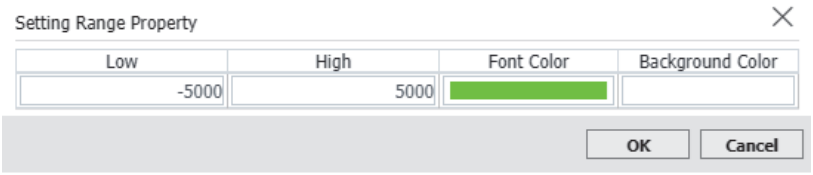
| Property window | Properties | | Settings |
|---|---|---|---|
|  | Text Format | Label Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | | Font Size | 1 to 1500 |
| | | Font Attributes | Bold, italic*1, underscore |
| | | Font Color | This will be selected from the color palette. |
| | | Horizontal Align | Left, Right, Center |
| | | Vertical Align | Top, Bottom, Middle |
| | | Outside Parts | Show, Hide |
| | | Text Wrap | Yes, No |
| | | Show Scrollbar | Show, Hide |
| | | Left Margin | 0 to 32 |
| | | Right Margin | 0 to 32 |
| | | Top Margin | 0 to 32 |
| | | Bottom Margin | 0 to 32 |
| | Background/Border | Border Type | Select Square/Rounded Corners |
| | | Background Color | This will be selected from the color palette. |
| | | Show Border | Yes, No |
| | Conditional Format | Use Conditional Format | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Range Number | 0 to 16 |
| | | Setting Range Property | ☞ Page 50 Setting Range Property |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*2 | Display when ON, Display when OFF |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

*1 For Japanese (two-byte characters), italics are not applied.

*2 It can be edited when "Bit" is selected as the Data Type.

## ■Setting Range Property

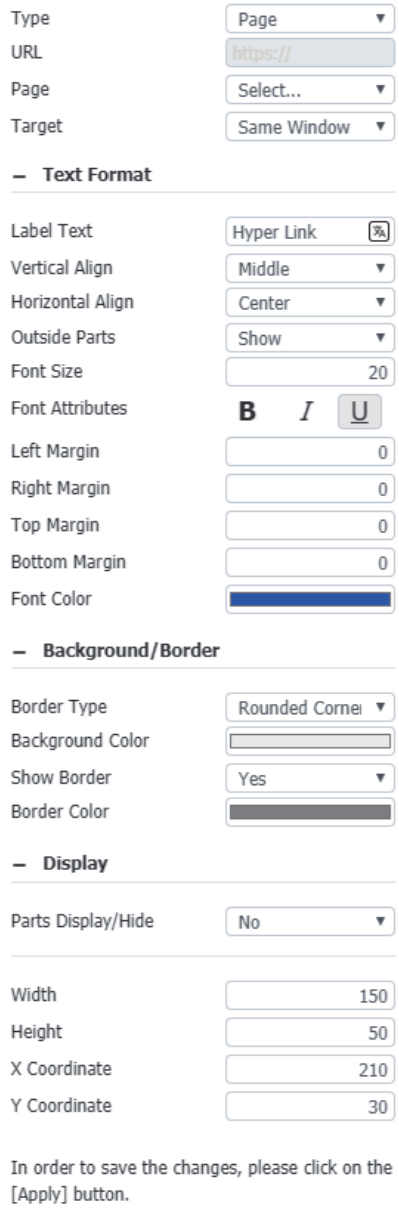
Upper and lower limits can be set to change the text data to be displayed. Depending on the number of ranges set, the number of settings will vary.




| Properties | Settings |
|---|---|
| Low | ☞ Page 56 Settings(Decimal) |
| High | |
| Font Color | This will be selected from the color palette. |
| Background Color | This will be selected from the color palette. |
| Bg-color Transparency | 0% to 100% |

## Hyper Link

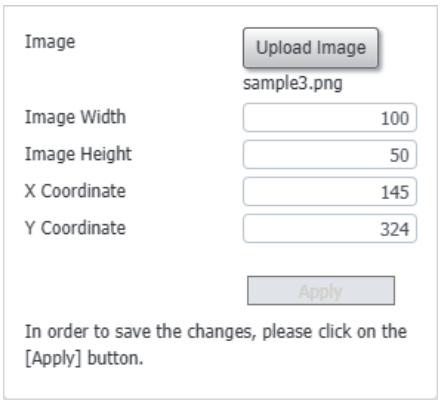
Below are setting items which will be displayed in its property window.

| Property window | Properties | | Settings |
|---|---|---|---|
|  | Type | | Page, URL |
| | URL | | No more than 1000 characters*1 |
| | Page | | Select a page that is already created and the own page.*2 |
| | Target | | Other window, Same window |
| | Text Format | Label Text | No more than 1000 characters (Comment 1, Comment 2, and Comment 3 can be input by clicking the icon of Label Text.) |
| | | Vertical Align | Top, Bottom, Middle |
| | | Horizontal Align | Left, Right, Center |
| | | Font Size | 1 to 1500 |
| | | Font Attributes | Bold, italic*3, underscore |
| | | Left Margin | 0 to 32 |
| | | Right Margin | 0 to 32 |
| | | Top Margin | 0 to 32 |
| | | Bottom Margin | 0 to 32 |
| | | Font Color | This will be selected from the color palette. |
| | Background/Border | Border Type | Select Square/Rounded Corners |
| | | Background Color | This will be selected from the color palette. |
| | | Show Border | Yes, No |
| | Display | Parts Display/Hide | Yes, No |
| | | Device | ☞ Page 54 Device settings |
| | | Device Number | |
| | | Data Type | |
| | | Comparison Value | |
| | | Display Condition | =, ! =, >, >=, <, <= |
| | | Mode*4 | Display when ON, Display when OFF |
| | X Coordinate | | 0 to 3840 |
| | Y Coordinate | | 0 to 2160 |

*1 It can be edited when "URL" is selected for the type property.
*2 It can be edited when "Page" is selected for the type property.
*3 For Japanese (two-byte characters), italics are not applied.
*4 It can be edited when "Bit" is selected as the Data Type.

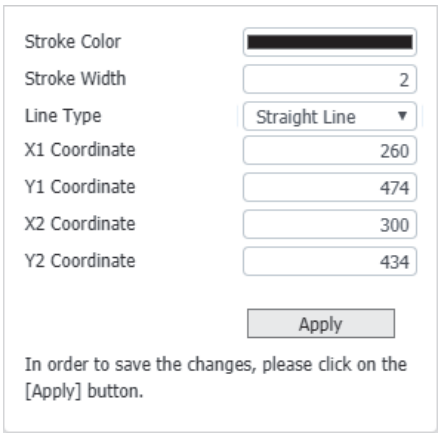
## Image Tag

Below are setting items which will be displayed in its property window.

| Property window | Properties | Settings |
|---|---|---|
|  | Image | ☞ Page 57 Image file |
| | Image Width | 10 to 3840 |
| | Image Height | 10 to 2160 |
| | X Coordinate | 0 to 3840 |
| | Y Coordinate | 0 to 2160 |

## Line

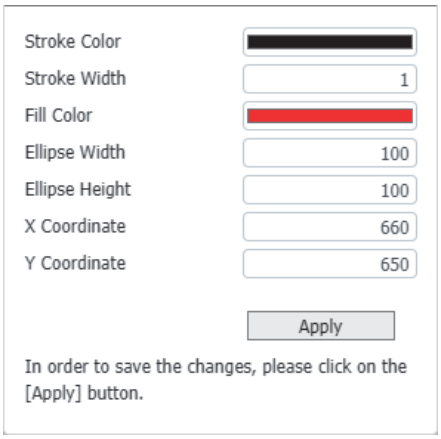
Below are setting items which will be displayed in its property window.

| Property window | Properties | Settings |
|---|---|---|
|  | Stroke Color | This will be selected from the color palette. |
| | Stroke Width | 1 to 100 |
| | Line Type | Straight line, dotted line 1 to 6 |
| | X1 Coordinate*1*2 | 0 to 3840 |
| | Y1 Coordinate*1*2 | 0 to 2160 |
| | X2 Coordinate*2*3 | 0 to 3840 |
| | Y2 Coordinate*2*3 | 0 to 2160 |

*1 Coordinate of line start point
*2 The same coordinate cannot be set to (X1, Y1) and (X2, Y2).
*3 Coordinate of line end point

## Ellipse

Below are setting items which will be displayed in its property window.

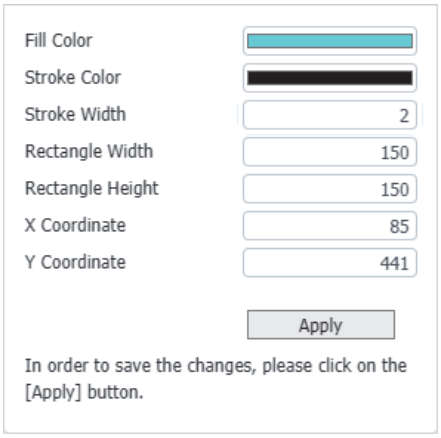
| Property window | Properties | Settings |
|---|---|---|
|  | Stroke Color | This will be selected from the color palette. |
| | Stroke Width | 1 to 1080*1 |
| | Fill Color | This will be selected from the color palette. |
| | Ellipse Width | 10 to 3840 |
| | Ellipse Height | 10 to 2160 |
| | X Coordinate | 0 to 3840 |
| | Y Coordinate | 0 to 2160 |



*1 Set the upper limit value to a value equal to or lower than half the smaller value of the width or height. If the value of the width or height exceeds the upper limit value when the part is resized, the input value is automatically calculated so that it does not exceed the upper limit value.

## Rectangle

Below are setting items which will be displayed in its property window.

| Property window | Properties | Settings |
|---|---|---|
|  | Fill Color | This will be selected from the color palette. |
| | Stroke Color | |
| | Stroke Width | 1 to 1080*1 |
| | Rectangle Width | 10 to 3840 |
| | Rectangle Height | 10 to 2160 |
| | X Coordinate | 0 to 3840 |
| | Y Coordinate | 0 to 2160 |



*1 Set the upper limit value to a value equal to or lower than half the smaller value of the width or height. If the value of the width or height exceeds the upper limit value when the part is resized, the input value is automatically calculated so that it does not exceed the upper limit value.

# Common items

This section shows items common to individual components.

## Device settings

Consistency among a device, a data type, and a display format is required for device settings. Use the following combinations to perform device settings.

### ■RCPU

○: can be set, ×: cannot be set

| Device[*1] | | Data type[*2] | | | | |
|---|---|---|---|---|---|---|
| | | Word [signed/ unsigned] | Double word [signed/ unsigned] | Floating point real number | Double point real number | Bit |
| X | Input | × | × | × | × | ○ |
| Y | Output | × | × | × | × | ○ |
| M | Internal relay | × | × | × | × | ○ |
| L | Latch relay | × | × | × | × | ○ |
| B | Link relay | × | × | × | × | ○ |
| F | Annunciator | × | × | × | × | ○ |
| SB | Link special relay | × | × | × | × | ○ |
| V | Edge relay | × | × | × | × | ○ |
| T | Timer | ○: K, H [unsigned] | × | × | × | × |
| ST | Retentive timer | ○: K, H [unsigned] | × | × | × | × |
| LT | Long timer | × | ○: K, H [unsigned] | × | × | × |
| LST | Long retentive timer | × | ○: K, H [unsigned] | × | × | × |
| C | Counter | ○: K, H [unsigned] | × | × | × | × |
| LC | Long counter | × | ○: K, H [unsigned] | × | × | × |
| D | Data register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| W | Link register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| SW | Link special register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| DX | Direct access input | × | × | × | × | ○ |
| DY | Direct access output | × | × | × | × | ○ |
| SM | Special relay | × | × | × | × | ○ |
| SD | Special register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| J□\X | Link input | × | × | × | × | ○ |
| J□\Y | Link output | × | × | × | × | ○ |
| J□\B | Link relay | × | × | × | × | ○ |
| J□\SB | Link special relay | × | × | × | × | ○ |
| J□\W | Link register | ○: K, H | ○: K, H | ○: H | ○: H | × |
| J□\SW | Link special register | ○: K, H | ○: K, H | ○: H | ○: H | × |
| U□\G | Module access device | ○: K, H | ○: K, H | ○: K | ○: K | × |
| U3E□\G | CPU buffer memory | ○: K, H | ○: K, H | ○: K | ○: K | × |
| U3E□\HG | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| Z | Index register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| LZ | Long index register | × | ○: K, H | ○: K | × | × |
| R | File register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| ZR | File register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| RD | Refresh data register | ○: K, H | ○: K, H | ○: K | ○: K | × |
| BL | SFC block device | × | × | × | × | ○ |
| BL□\S | | × | × | × | × | ○ |

*1 For a device number, refer to the user's manual of a CPU module used.

*2 K: Decimal, H: Hexadecimal

## ■FX5CPU

○: can be set, ×: cannot be set

| Device[*1] | | | Data type[*2] | | | |
|---|---|---|---|---|---|---|
| | | | Word [signed/ unsigned] | Double word [signed/ unsigned] | Floating point real number | Bit |
| X | Input | | × | × | × | ○[*3] |
| Y | Output | | × | × | × | ○[*3] |
| M | Internal relay | | × | × | × | ○ |
| L | Latch relay | | × | × | × | ○ |
| B | Link relay | | × | × | × | ○ |
| F | Annunciator | | × | × | × | ○ |
| SB | Link special relay | | × | × | × | ○ |
| S | Step relay | | × | × | × | ○ |
| T | Timer | Contact: TS/Coil: TC | × | × | × | ○ |
| | | Current value: TN | ○: K, H [unsigned] | × | × | × |
| ST | Retentive timer | Contact: STS/Coil: STC | × | × | × | ○ |
| | | Current value: STN | ○: K, H [unsigned] | × | × | × |
| C | Counter | Contact: CS/Coil: CC | × | × | × | ○ |
| | | Current value: CN | ○: K, H [unsigned] | × | × | × |
| LC | Long counter | Contact: LCS/Coil: LCC | × | × | × | ○ |
| | | Current value: LCN | × | ○: K, H | × | × |
| D | Data register | | ○: K, H | ○: K, H | ○: K | × |
| W | Link register | | ○: K, H | ○: K, H | ○: K | × |
| SW | Link special register | | ○: K, H | ○: K, H | ○: K | × |
| SM | Special relay | | × | × | × | ○ |
| SD | Special register | | ○: K, H | ○: K, H | ○: K | × |
| U□\G | Module access device | | ○: K, H | ○: K, H | ○: K | × |
| Z | Index register | | ○: K, H | ○: K, H | ○: K | × |
| LZ | Long index register | | × | ○: K, H | ○: K | × |
| R | File register | | ○: K, H | ○: K, H | ○: K | × |
| BL | SFC block device | | × | × | × | ○ |
| BL□\S | | | × | × | × | ○ |

*1 For a device number, refer to the user's manual of a CPU module used.
*2 K: Decimal, H: Hexadecimal
*3 If X and Y are to be specified, specify them in octal numbers.

## ■Controller

○: can be set, ×: cannot be set

| Device[*1] | | | Data type[*2] | | | | |
|---|---|---|---|---|---|---|---|
| | | | Word [signed/ unsigned] | Double word [signed/ unsigned] | Floating point real number | Double point real number | Bit |
| X | Input | | × | × | × | × | ○ |
| Y | Output | | × | × | × | × | ○ |
| M | Internal relay | | × | × | × | × | ○ |
| L | Latch relay | | × | × | × | × | ○ |
| B | Link relay | | × | × | × | × | ○ |
| F | Annunciator | | × | × | × | × | ○ |
| SB | Link special relay | | × | × | × | × | ○ |
| V | Edge relay | | × | × | × | × | ○ |
| T | Timer | Contact: TS/Coil: TC | × | × | × | × | ○ |
| | | Current value: TN | ○: K, H [unsigned] | × | × | × | × |

| Device[*1] | | | Data type[*2] | | | | |
|---|---|---|---|---|---|---|---|
| | | | Word [signed/ unsigned] | Double word [signed/ unsigned] | Floating point real number | Double point real number | Bit |
| ST | Retentive timer | Contact: STS/Coil: STC | × | × | × | × | ○ |
| | | Current value: STN | ○: K, H [unsigned] | × | × | × | × |
| LT | Long timer | Contact: LTS/Coil: LTC | × | × | × | × | ○ |
| | | Current value: LTN | × | ○: K, H [unsigned] | × | × | × |
| LC | Long retentive timer | Contact: LSTS/Coil: LSTC | × | × | × | × | ○ |
| | | Current value: LSTN | × | ○: K, H [unsigned] | × | × | × |
| C | Counter | Contact: CS/Coil: CC | × | × | × | × | ○ |
| | | Current value: CN | ○: K, H [unsigned] | × | × | × | × |
| LC | Long counter | Contact: LCS/Coil: LCC | × | × | × | × | ○ |
| | | Current value: LCN | × | ○: K, H [unsigned] | × | × | × |
| D | Data register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| W | Link register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| SW | Link special register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| DX | Direct access input | | × | × | × | × | ○ |
| DY | Direct access output | | × | × | × | × | ○ |
| SM | Special relay | | × | × | × | × | ○ |
| SD | Special register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| Jn\X | Link input | | × | × | × | × | ○ |
| Jn\Y | Link output | | × | × | × | × | ○ |
| Jn\B | Link relay | | × | × | × | × | ○ |
| Jn\SB | Link special relay | | × | × | × | × | ○ |
| Jn\W | Link register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| Jn\SW | Link special register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| U□\G | Module access device | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| U3E□\G | CPU buffer memory access device | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| Z | Index register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| LZ | Long index register | | × | ○: K, H | ○: K | × | × |
| R/ZR | File register | | ○: K, H | ○: K, H | ○: K | ○: K | × |
| RD | Refresh data register | | ○: K, H | ○: K, H | ○: K | ○: K | × |

*1 For the device number, refer to the following.
MELSEC MX Controller MX-R Model User's Manual

*2 K: Decimal, H: Hexadecimal

## Settings

If individual components' upper/lower limits, etc. are to be set, their ranges will vary depending on their data types.

| Data type | Range |
|---|---|
| Word [signed] | -32768 to +32767 |
| Word [unsigned] | 0 to 65535 |
| Double word [signed] | -2147483648 to +2147483647 |
| Double word [unsigned] | 0 to 4294967295 |
| Floating point real number | -3.402823e+38 to +3.402823e+38 |
| Double point real number (RCPU and controller only) | -1.79769313486231e+308 to +1.79769313486231e+308 |
| Bit | 0, 1 |

## Coordinate

To define the design window's coordinate, its upper left corner is set as the origin, (0, 0), the X-axis is set along the horizontal direction from the origin, and the Y-axis is set along the vertical direction from the origin. Individual components' coordinates represent their upper left positions.



## Image file

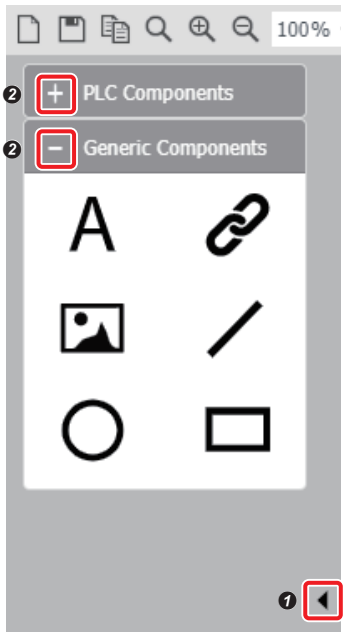
For an image file which this tool can use, its file name consists of no more than 27 half-width characters of alphanumeric characters, "-", "_", and "." including its extension (.jpg, .gif, .jpeg, and .png). Aim for 100 KB or less as the total size of image files in one screen. (This also includes a case where an image display component uses multiple image files.)
If an image file is specified, its copy will be stored in the img folder. (☞ Page 73 File configuration) If a file in the img folder is specified, its copy will not be created.
If an image is not specified, a default image will appear.

## Ordered arrangement of components

The ordered arrangement of components is their allocated order in the design window. Only generic and arbitrary value write button components can optionally change their ordered arrangements to the forefront/backmost. (☞ Page 58 Context menu)

## Window folding

A component window can be folded to make more space for the design window.




Click the symbol on the right side of ❶ to fold a component window in question. If a component window is folded, click such a symbol to unfold it.
Click the symbol on the right side of ❷ to fold a corresponding PLC/generic component's list.

# 2.6 Design Window

The design window can create/edit an HTML file which will allocate components and show them in a Web browser. This section describes how to operate the design window. The highest resolution of the design window (an HTML section) is 4K (3840 × 2160 pixels).

## Select HTML file

This is used to display in the design window, an HTML file whose file name is selected.

## Delete HTML file

This is used to delete an HTML file that is created in a project. However, index.html cannot be deleted.

## Create new HTML file

This is used to set an HTML file's name and newly create it in a project in question. (☞ Page 25 Create Page)

## Context menu

If a component allocated in the design screen is selected and right-clicked, a context menu will appear. The following operations can be performed from the context menu.

| Context menu | | Description |
|---|---|---|
| Align | Left | This is enabled when two or more components are selected. All the selected components are aligned to the left. |
| | Right | This is enabled when two or more components are selected. All the selected components are aligned to the right. |
| | Top | This is enabled when two or more components are selected. All the selected components are aligned to the top. |
| | Bottom | This is enabled when two or more components are selected. All the selected components are aligned to the bottom. |
| | Horizontal Center | This is enabled when two or more components are selected. All the selected components are aligned to the horizontal center. |
| | Vertical Middle | This is enabled when two or more components are selected. All the selected components are aligned to the vertical middle. |
| | Distribute Horizontally | This is enabled when three or more components are selected. The components at the left and right ends of all the selected components are fixed, and the components in between are equally spaced. |
| | Distribute Vertically | This is enabled when three or more components are selected. The components at the top and bottom of all the selected components are fixed, and the components in between are equally spaced. |
| Cut | | This is used to cut a selected component. |
| Copy | | This is used to copy a selected component. |
| Paste | | This is used to paste a cut or copied component.<br>"Paste" can be executed only within a project of the same series. (Example: A component copied in a project of the FX5 CPU series cannot be pasted in a project of the RCPU series.) |
| Delete | | This is used to delete a selected component. |
| Bring to Front | | This is used to bring the selected component to the front. (The component will be brought to the front among all components which are allocated to and displayed in the design window.) |
| Send to Back | | This is used to send the selected component to the back. (The component will be sent to the back among all components which are allocated to and displayed in the design window.) |
| Bring to Forward | | This is used to bring the selected component one layer forward. |
| Send Backward | | This is used to send the selected component one layer backward. |

### ■Select multiple components

Multiple components can be selected in the design window. When multiple components are selected, only "Cut", "Copy", "Paste", and "Delete" context menu options are valid.

# 2.7 Property Window

If a component is allocated to the design window, its property and HTML file page settings can be conducted. If a component is selected in the design window, its component properties will be displayed, and if a component is not selected, its page properties will be displayed.



## Component properties

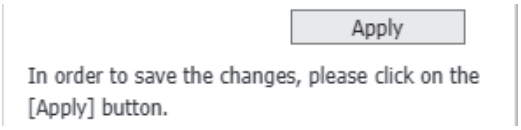
If a component is selected in the design window, its component properties will be displayed. This section describes how to operate the design window. For individual components' properties which can be set, refer to ☞ Page 33 Component Window.

### Delete component



This is used to delete a selected component. This is an operation common to all components.

### "Apply" button




This can be clicked when a setting value is changed in the component property. When the component property is switched, the input values are retained only with the [Apply] button clicked.
This is an operation common to all components.

## Page properties

If an HTML file is displayed in the design screen, its page properties will be displayed. Those page properties which can be set are shown below.

### Page name

To change a page name, click the [Edit] button. (☞ Page 25 Create Page)
Note, however, that the page names of index.html and Log-in_User.html cannot be changed.

### Background color

The background color of an HTML file can be set from the color palette.
If such a background color is set as "Reflect in all pages", it will be reflected in all HTML files in a project in question.

### Display update interval

This is used to set the display update interval of a PLC component allocated to an HTML file which is displayed in the design window. The setting range is as follows.

| Project | User Web Page Design Tool | Setting range |
|---|---|---|
| RCPU | Version "1.00A" | 5 to 120 (second) |
| | Version "1.01B" or later | 1 to 120 (second) |
| FX5CPU | Version "1.00A" | 5 to 120 (second) |
| | Version "1.01B" or later | 1 to 120 (second) |
| MX Controller | Version "1.03D" or later | 0.05 to 120 (second) |

If such a display update interval is set as "Reflect in all pages", the display update interval will be reflected in all HTML files in a project in question.

### Page display language

This is used to set the display language of input button and arbitrary value write button components allocated to an HTML file which is displayed in the design window (English, Japanese, and Chinese (simplified characters)). The default display language is one set in index.html.
If such a display language is set as "Reflect in all pages", the display language will be reflected in all HTML files in a project in question.

## Common items

This section shows setting items common to all property windows.

### Window folding

This is used to fold a property window to make more space for the design window. If a property window is folded, this is used to unfold the window.

# 3 TUTORIAL

This section describes the procedures, operations, and practical examples before using the user Web page.

## 3.1 Before Tutorial

To use this tutorial, it is necessary to obtain this tool and become familiar with its operations. Check a system configuration to read/write a project through FTP communication with an SD memory card attached to a CPU module.



### How to obtain and start the tool

This section describes how to obtain and start this tool and associated functions.

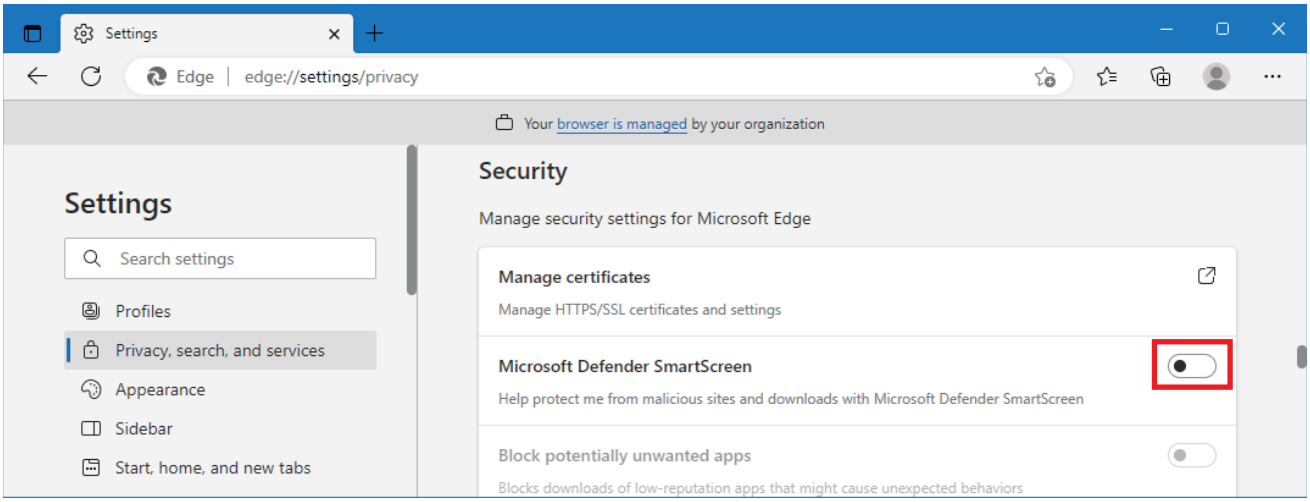
#### ■How to Obtain

Please consult your local Mitsubishi representative.

#### ■Installing and Uninstalling

- To install, execute setup.exe and install the tool according to the message of the installer. To use this tool, turn off SmartScreen in the Microsoft® Edge settings as follows.

1. Select [Settings and more] ⇨ [Settings] ⇨ [Privacy, search, and services].
2. Turn off "Microsoft Defender SmartScreen" in "Security".




- To uninstall, execute uninstall.exe and uninstall the tool according to the message.

#### ■Start and End

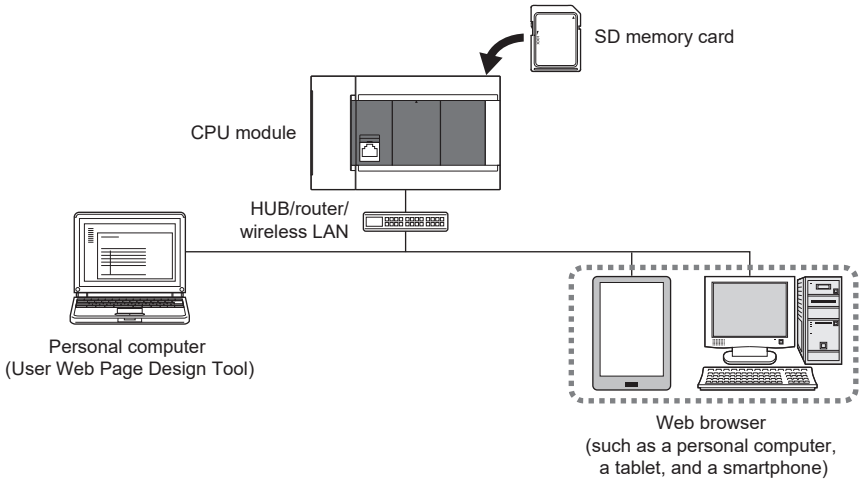
To start it: [Start Menu] ⇨ [UserWebPageDesignTool] ⇨ [UserWebPageDesignTool]

To end it: [Project] ⇨ [Exit] (☞ Page 24 Exit)

## FTP communication

If this tool (installed on a personal computer) is connected to a CPU module through Ethernet, a project can be read/written through FTP communication.

For more information about how to operate FTP communication, refer to ☞ Page 27 Communication.




Use a straight cable with either of the following specifications.

If a personal computer is to be directly connected to a CPU module with an Ethernet cable, a cross cable whose specification is category 5e or less can be used.

[When 100BASE-TX connection is available]

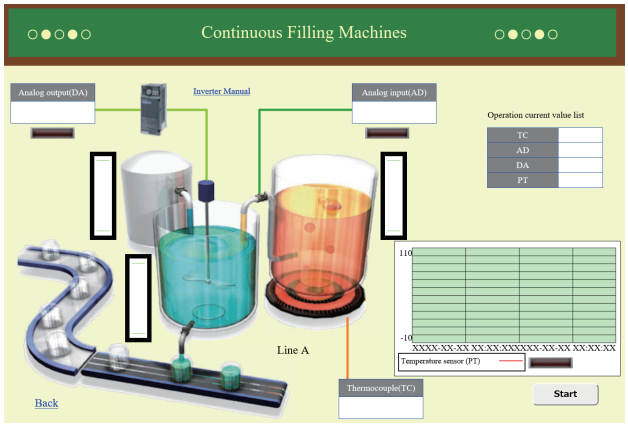
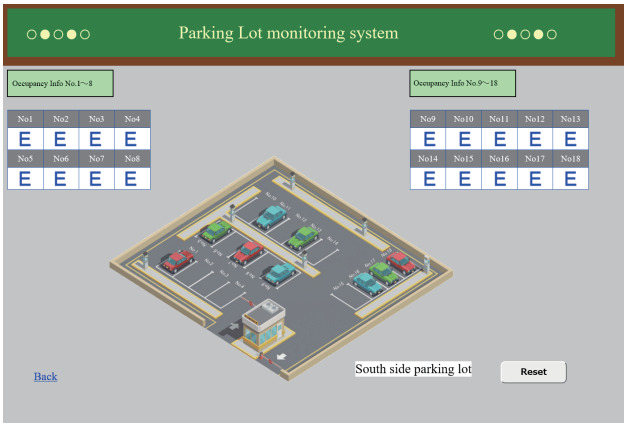
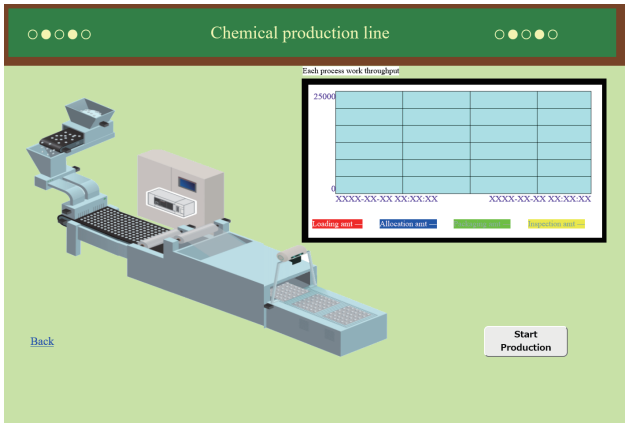
Cable products compliant with the Ethernet standard whose specification is category 5 or better (STP cables)

[When 10BASE-T connection is available]

Cable products compliant with the Ethernet standard whose specification is category 3 or better (STP cables)

# 3.2 Practical Examples

The practical examples of user Web pages are shown below.

| Top page (index.html) | Continuous Filling Machines |
|---|---|
| |  |
| **Parking Lot monitoring system** | **Chemical production line** |
|  |  |



This section describes procedures to create a project with continuous filling machines as an example.
The "Continuous filling machines" example is about a user Web page to monitor the states and measurements of individual devices.

## Creating a user Web page

This section describes procedures to create the HTML files of the continuous filling machines.

### Creating a project

For a project, refer to ☞ Page 73 Project Management.

***1.*** Newly Creating Project

After having installed this tool, start this tool, and perform the following operation to create a new project.
[Project] ⇨ [Create Project] (☞ Page 24 Create Project)

***2.*** Creating HTML File

Perform the following operation to create an HTML file. For this example, its page name is "001".
[Edit] ⇨ [Create Page] (☞ Page 25 Create Page)

## Editing HTML file

By allocating individual components, the continuous filling machines' user Web page will be created. The continuous filling machines consist of the following items.

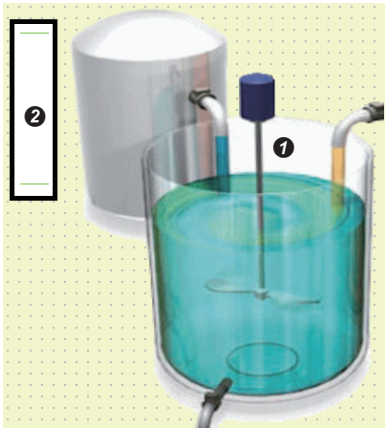
[Tank] This monitors water storage (R3) in the equipment's tank

[Liquid tank 1] This monitors the water level (R1) and analog output (D102) of the equipment's liquid tank.

[Liquid tank 2] This monitors the water level (R2), analog input (D101), and temperature (D100) of the equipment's liquid tank.

[Batch display section] This monitors the analog input/output (D101 and D102) and the temperatures (D100 and R100).

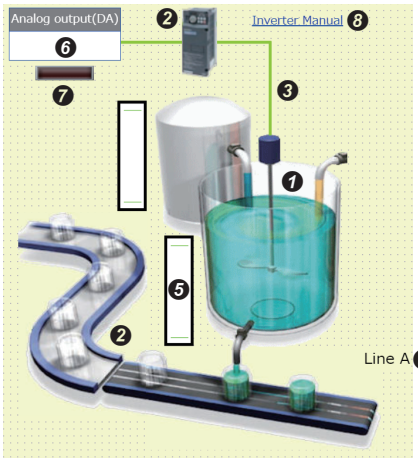
### ■Tank

| Design window | Used components |
|---|---|
|  | Allocate the following components from the component window.<br>❶ Image tag components<br>In this example, the image files of "Tank" and "Liquid tank 1" are the same.<br>❷ Level display and rectangle components<br>This shows the water storage (R3) using a level indication. |

❷ The following items are set for the level display component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Vertical | Current Value | Display | Not Display |
| Device | | R | | Color | Set this optionally. |
| Device Number | | 3 | | Background Color | |
| Data Type | | word [signed] | | Width | 10 |
| Level Color | | Set this optionally. | | Height | 10 |
| Upper Color | | | Level Length | | 160 |
| Lower Color | | | Level Width | | 30 |
| Background Color | | | X Coordinate | | Set this optionally. |
| Upper Value | | 5000 | Y Coordinate | | |
| Lower Value | | -10 | — | | |
| Alarm Value | Display Line | Display | | | |
| | Line Color | Set this optionally. | | | |
| | Upper Value | 4999 | | | |
| | Lower Value | -1 | | | |

## ■Liquid Tank 1

| Design window | Used components |
|---|---|
|  | Allocate the following components from the component window.<br>❶ Image tag components<br>In this example, the image files of "Tank" and "Liquid tank 1" are the same.<br>❷ Image tag components<br>Allocate an image file specific to "Liquid tank 1".<br>❸ Line components<br>❹ Label components<br>❺ Level display and rectangle components<br>This shows a water level (R1) in the liquid tank using a level indication.<br>The rectangular component has to be located so that it will overlap with the level display component.<br>❻ Data block components<br>This shows the analog output (D102).<br>❼ Image display components<br>This indicates whether the analog output is monitored.<br>❽ Hyper link components |

❺ The following items are set for the level display component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Vertical | Current Value | Display | Not Display |
| Device | | R | | Color | Set this optionally. |
| Device Number | | 1 | | Background Color | |
| Data Type | | word [signed] | | Width | 10 |
| Level Color | | Set this optionally. | | Height | 10 |
| Upper Color | | | Level Length | | 160 |
| Lower Color | | | Level Width | | 30 |
| Background Color | | | X Coordinate | | Set this optionally. |
| Upper Value | | 5000 | Y Coordinate | | |
| Lower Value | | -10 | — | | |
| Alarm Value | Display Line | Display | | | |
| | Line Color | Set this optionally. | | | |
| | Upper Value | 4999 | | | |
| | Lower Value | -1 | | | |

❻ The following items are set for the data block component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Horizontal | Device Value | Font Color | Set this optionally. |
| Block Size | | 1 | | Background Color | |
| Device Property | Display Label | Analog output (DA) | | Cell Width | 190 |
| | Device | D102 | | Cell Height | 50 |
| | Data Type | word [signed] | X Coordinate | | Set this optionally. |
| | Display Format | Decimal | Y Coordinate | | |
| Line Color | | Set this optionally. | — | | |
| Device Name | Display | Display | | | |
| | Font Color | Set this optionally. | | | |
| | Background Color | | | | |
| | Cell Width | — | | | |
| | Cell Height | 40 | | | |

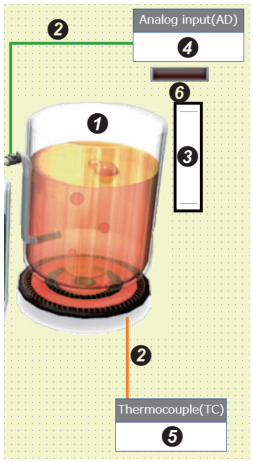
❼ The following items are set for the image display component. (Property window)

| Properties | Settings | Properties | | Settings |
|---|---|---|---|---|
| Default Image | An image file that will be displayed when OFF. | Setting Range Property | Low | 1 |
| Device | M | | High | 1 |
| Device Number | 202 | | Image File | An image file that will be displayed when ON. |
| Data Type | Bit | Image Height | | 25 |
| Range Number | 1 | Image Width | | 100 |
| — | | X Coordinate | | Set this optionally. |
| | | Y Coordinate | | |

❽ The following items are set for the hyper link component. (Property window)

| Properties | Settings | Properties | Settings |
|---|---|---|---|
| Type | URL | Text | Inverter Manual |
| URL | An arbitrary address | Font Size | 20 |
| Page | — | X Coordinate | Set this optionally. |
| Target | Same Window | Y Coordinate | |

## ■Liquid Tank 2

| Design window | Used components |
|---|---|
|  | Allocate the following components from the component window.<br>❶ Image tag components<br>❷ Line components<br>❸ Level display and rectangle components<br>This shows a water level (R2) in the liquid tank using a level indication.<br>The rectangular component has to be located so that it will overlap with the level display component.<br>❹ Data block component<br>This displays the analog input value (D101).<br>❺ Data block components<br>This shows the measured temperature of temperature (D100).<br>❻ Image display components<br>This indicates whether the analog input value is monitored. |

❸ The following items are set for the level display component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Vertical | Current Value | Display | Not Display |
| Device | | R | | Color | Set this optionally. |
| Device Number | | 2 | | Background Color | |
| Data Type | | word [signed] | | Width | 10 |
| Level Color | | Set this optionally. | | Height | 10 |
| Upper Color | | | Level Length | | 160 |
| Lower Color | | | Level Width | | 30 |
| Background Color | | | X Coordinate | | Set this optionally. |
| Upper Value | | 5000 | Y Coordinate | | |
| Lower Value | | -10 | — | | |
| Alarm Value | Display Line | Display | | | |
| | Line Color | Set this optionally. | | | |
| | Upper Value | 4999 | | | |
| | Lower Value | -1 | | | |

❹ The following items are set for the data block component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Horizontal | Device Value | Font Color | Set this optionally. |
| Block Size | | 1 | | Background Color | |
| Device Property | Display Label | Analog input (AD) | | Cell Width | 190 |
| | Device | D101 | | Cell Height | 50 |
| | Data Type | word [signed] | X Coordinate | | Set this optionally. |
| | Display Format | Decimal | Y Coordinate | | |
| Line Color | | Set this optionally. | — | | |
| Device Name | Display | Display | | | |
| | Font Color | Set this optionally. | | | |
| | Background Color | | | | |
| | Cell Width | — | | | |
| | Cell Height | 40 | | | |

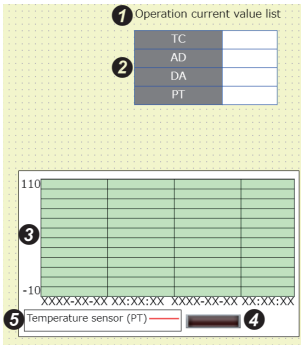
❺ The following items are set for the data block component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Horizontal | Device Value | Font Color | Set this optionally. |
| Block Size | | 1 | | Background Color | |
| Device Property | Display Label | Thermocouple (TC) | | Cell Width | 190 |
| | Device | D100 | | Cell Height | 50 |
| | Data Type | word [signed] | X Coordinate | | Set this optionally. |
| | Display Format | Decimal | Y Coordinate | | |
| Line Color | | Set this optionally. | — | | |
| Device Name | Display | Display | | | |
| | Font Color | Set this optionally. | | | |
| | Background Color | | | | |
| | Cell Width | — | | | |
| | Cell Height | 40 | | | |

❻ The following items are set for the image display component. (Property window)

| Properties | Settings | Properties | | Settings |
|---|---|---|---|---|
| Default Image | An image file that will be displayed when OFF. | Setting Range Property | Low | 1 |
| Device | M | | High | 1 |
| Device Number | 201 | | Image File | An image file that will be displayed when ON. |
| Data Type | Bit | Image Height | | 25 |
| Range Number | 1 | Image Width | | 100 |
| — | | X Coordinate | | Set this optionally. |
| | | Y Coordinate | | |

## ■Batch Display Section

| Design window | Used components |
|---|---|
|  | Allocate the following components from the component window.<br>❶ Label components<br>❷ Data block components<br>This shows the analog input/output values (D101 and D102) and the temperatures (D100 and R100).<br>❸ Historic graph components<br>This shows the temperature (R100) in a time series line graph.<br>❹ Image display components<br>This shows whether the temperatures are monitored.<br>❺ Rectangle, label, and line components |

❷ The following items are set for the data block component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Direction | | Vertical | Device Value | Font Color | Set this optionally. |
| Block Size | | 4 | | Background Color | |
| Device Property | | *1 | | Cell Width | 100 |
| Line Color | | Set this optionally. | | Cell Height | 34 |
| Device Name | Display | Display | X Coordinate | | Set this optionally. |
| | Font Color | Set this optionally. | Y Coordinate | | |
| | Background Color | | — | | |
| | Cell Width | 160 | | | |
| | Cell Height | — | | | |

*1 The following items are set for individual lines. (Display label, device, data type, and display format)
First line: TC, D100, word [signed], and decimal number
Second line: AD, D101, word [signed], and decimal number
Third line: DA, D102, word [signed], and decimal number
Fourth line: PT, R100, word [signed], and decimal number

❸ The following items are set for the historic graph component. (Property window)

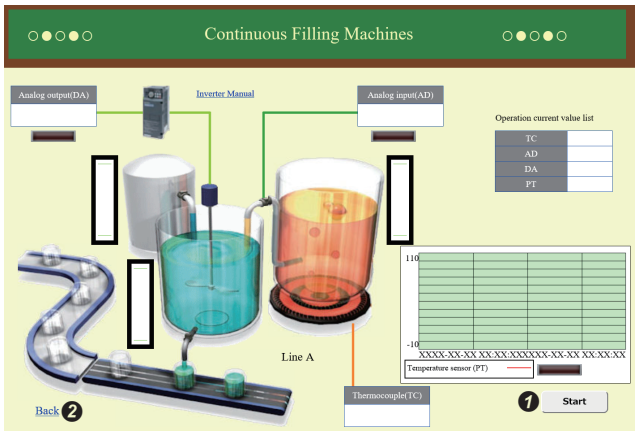
| Properties | | Settings | Properties | Settings |
|---|---|---|---|---|
| Graph Element Number | | 1 | Graph Background Color | Set this optionally. |
| Graph Element Property | Device Name | R | Character Color | Set this optionally. |
| | Device Number | 100 | Right Margin | 10 |
| | Line Color | Set this optionally. | Left Margin | 40 |
| Data Type | | word [signed] | Upper Margin | 15 |
| Upper Limit Value | | 110 | Lower Margin | 75 |
| Lower Limit Value | | -10 | Graph Height | 215 |
| Number Of Records | | 20 | Graph Width | 462 |
| Vertical Axis Interval | | 5 | X Coordinate | Set this optionally. |
| Number Of Horizontal Axes | | 11 | Y Coordinate | |

❹ The following items are set for the image display component. (Property window)

| Properties | | Settings | Properties | | Settings |
|---|---|---|---|---|---|
| Default Image | | An image file that will be displayed when OFF. | Setting Range Property | Low | 1 |
| Device | | M | | High | 1 |
| Device Number | | 200 | | Image File | An image file that will be displayed when ON. |
| Data Type | | Bit | Image Height | | 25 |
| Range Number | | 1 | Image Width | | 100 |
| — | | | X Coordinate | | Set this optionally. |
| | | | Y Coordinate | | |

## ■Start Button and Hyper Link

A button to start monitoring and a hyper link to the top page will be allocated.

| Design window | Used components |
|---|---|
|  | Allocate the following components from the component window.<br>❶ Input button components<br>A button (Y0) to start monitoring will be allocated.<br>❷ Hyper link components<br>A hyper link to return to the top page will be allocated. |

❶ The following items are set for the input button component. (Property window)

| Properties | Settings | Properties | Settings |
|---|---|---|---|
| Device | Y | Write Confirm | Not Display |
| Device Number | 0 | Button Width | 150 |
| Data Type | Bit | Button Height | 50 |
| Display Format | Binary | X Coordinate | Set this optionally. |
| Write Value | 1 | Y Coordinate | |
| Button Text | Start | | |

❷ The following items are set for the hyper link component. (Property window)

| Properties | Settings | Properties | Settings |
|---|---|---|---|
| Type | Page | Text | Back |
| URL | — | Font Size | 26 |
| Page | index.html | X Coordinate | Set this optionally. |
| Target | Same Window | Y Coordinate | |

### Writing the Project

If a project is created, save it to an SD memory card attached to a CPU module.
When writing the project to the SD memory card, make sure that there are the css and img folders in the SD memory card. (☞ Page 73 File configuration) In addition, when the project is written to the SD memory card, all files under the USER folder in the SD memory card will be deleted. Save files in the SD memory card, as appropriate.

**1.** Communication Settings

[Communication] ⇨ [Communication Settings]
Set an IP address, a user name, and a password from "Communication Settings". Make sure that these settings are the same as those settings which are written to the CPU module by GX Works3. (☞ Page 30 Communication Settings)

**2.** Uploading to SD Memory Card

[Communication] ⇨ [Write files to PLC (SD Memory Card)]
Use "Write files to PLC (SD Memory Card)" to write the project, which is currently opened and already saved, to the SD memory card. (☞ Page 28 Write files to PLC (SD Memory Card))

**Point**

When an SD memory card is used on the FX5S CPU module, an SD memory card module is required.

## Access to user Web page

If a project is written to an SD memory card attached to a CPU module, the user Web page can be accessed from the web browser. Refer to the following documents for more information about respective settings.
📖MELSEC iQ-R Ethernet User's Manual (Application)
📖MELSEC iQ-F FX5 User's Manual (Communication)
📖MELSEC MX Controller MX-R Model User's Manual
📖MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book

**1.** Setting CPU Module Parameters

Use GX Works3 to set the CPU module's "IP Address" and "Web Server Settings". For "Authority for Window Display" in "Web Server Settings," select either "Permit Both Displays" or "User Web Page Only" to write the selection to the CPU module.
If the input button and arbitrary value write button components are used, set "Write Device" in "Web Server Account Settings" to "Enable".

**2.** Access to Login Page

Enter the following URL to a Web browser's address bar to access the user Web page.
http://[the IP address of the Web server (the CPU module)]/
For example, if the IP address of the CPU module is 192.168.3.39: http://192.168.3.39/
If the own station's port number is changed from its default value (80), enter the following.
http://[the IP address of the Web server (the CPU module)]:[the own station's port number]/
For example, if the IP address of the CPU module is 192.168.3.39: http://192.168.3.39:8080/

**3.** Login Operations

On a login screen, enter the "Use Name" and "Password" set by "Web Server Settings" to log in to the user Web page.

**4.** Access to User Web Page

Access destinations after login may vary, depending on what is set for "Initial Display Window".
[When "System Web Page" is selected]
A system Web page will be accessed after login. If "User Web Page" is selected from its menu, the user Web page will be accessed.
[When "User Web Page" is selected]
The user Web page will be accessed after login.

# 4 NOTES

Notes are as shown below.

## User operation

Only one keyboard shortcut or menu command can be used at a time.

## External editing

- If an HTML file is created externally, it cannot be processed by this tool.
- If an HTML file was created by this tool but is directly edited externally, it may not be processed by this tool.

## Project file configuration

Do not remove MENUWDT.WSV from the USER folder. If removed, this tool cannot read the project.

## Overlapping setting ranges

For a generic component or an image display component, if its setting ranges overlap each other, one with a smaller setting range number will be displayed. For example, if a device value is in both setting range 1 and setting range 2, it will be displayed in setting range 1.

## Image file

Only one file with the same file name and extension can be used in a project. If there is a file in the img folder with the same file name and extension as those of a used image (specified by an image component), the file in the img folder will be overwritten with one specified later.

## Preview

- If there are problems in the property settings of PLC and generic components allocated to an HTML file displayed in the design window, their previews cannot be displayed. For a problematic component, an error message will be displayed and therefore deal with the problematic component. (Even if there are multiple problematic components, an error message for only one of the problematic components will be displayed.)
- As executing a preview, the system outputs files under the install folder. If the memory of the file output destination is insufficient, the output fails and the preview cannot be displayed.

## Access to Web server

Communication in the Web server's functions doesn't support encrypted communication (SSL communication). Do not access the Web server via the Internet. When accessing the Web server, access it within its LAN. When it is accessed via the Internet, the communication may be intercepted.

## Access to HTML file

After having logged in the Web server, do not access an individual user Web page by directly specifying its URL. If such a URL is specified, the screen will not be displayed correctly, and information cannot be collected from the Web server.

## Device value of historic graph

If a heavy communication load state continues for a historic graph component, it may miss its device values.

## Troubleshooting

For FTP communication failure or the troubleshooting for the Web server function, refer to the following document for troubleshooting.

📖MELSEC iQ-R Ethernet User's Manual (Application)

📖MELSEC iQ-F FX5 User's Manual (Communication)

📖MELSEC MX Controller MX-R Model User's Manual

📖MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book

# APPENDIX

## Appendix 1 Project Management

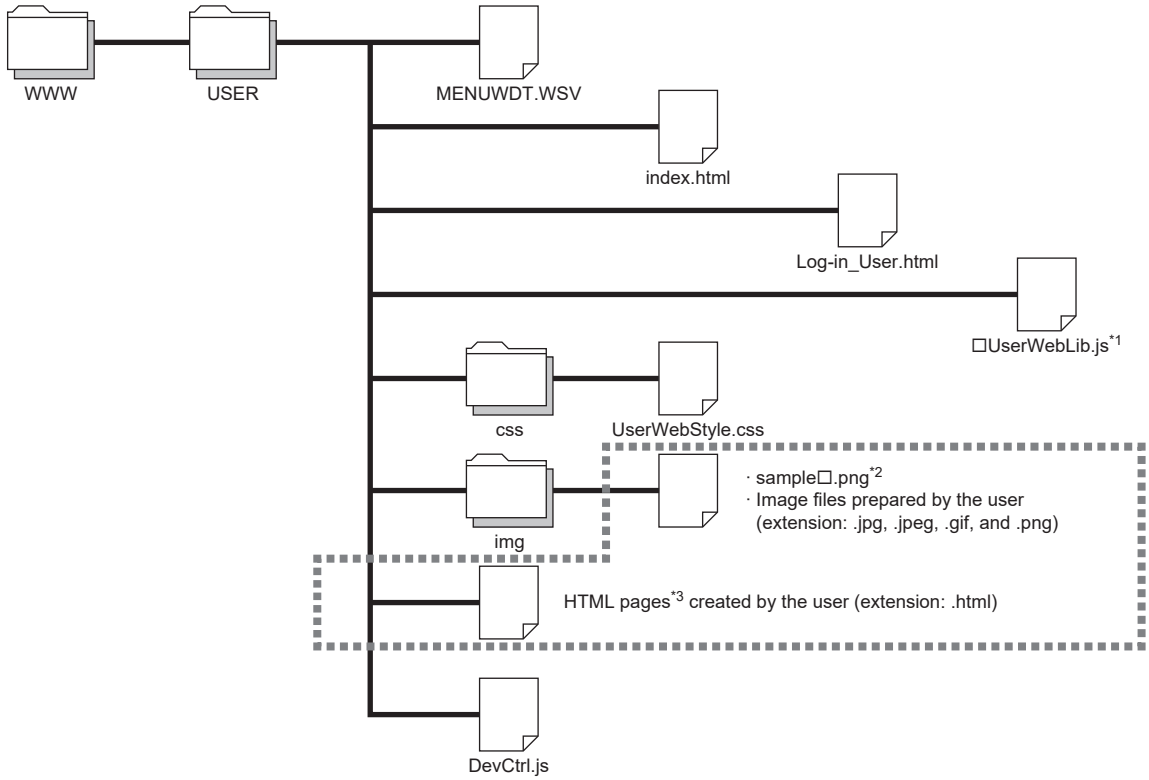
This section describes how to conduct the basic operations and management of a project.

### Project file

This tool treats an HTML file for user Web pages (up to 160 pages) for one CPU module as a project. A generated project is stored in a file and managed on a project basis.

### File configuration

This section shows the file configuration of a project created by this tool.
Do not change the configurations of folders and files other than those encircled by the dotted lines. If file names and folder configuration are different from what are shown here, the project cannot be written to a CPU module.




*1 Its file name varies, depending on a project's series.
RCPU: RUserWebLib.js
FX5CPU: FUserWebLib.js
MX Controller: MXUserWebLib.js

*2 ☐: 0 to 3

*3 If an HTML file is created and edited by one other than this tool and is read, it will not be displayed correctly.

## ■Configuration file list

Configuration files are extracted to the work area of the installation destination in accordance with the series selection, this tool, or display language setting of the target project.

| File name | Description |
|---|---|
| MENUWDT.WSV | This is the configuration file of a project in question. If this file is stored in the WWW/USER folder, this tool will recognize it as a project. |
| index.html | This is an HTML file which will be displayed initially when a user Web page is logged in.*1 |
| Log-in_User.html | This is an HTML file that will be displayed when the user Web page is logged out.*1 |
| FUserWebLib.js | This is a JavaScript library file for the user Web page. This will be allocated only for an FX5CPU project. |
| RUserWebLib.js | This is a JavaScript library file for the user Web page. This will be allocated only for an RCPU project. |
| MXUserWebLib.js | This is a JavaScript library file for the user Web page. This will be allocated only for an MX Controller project. |
| sample□.png*2 | This is a default image file for image display and image components. |
| UserWebStyle.css | This is a style sheet for the User Web page. |
| DevCtrl.js | This is a JavaScript library file for an arbitrary value write button component. If no arbitrary value write button component is used, this will not be shown. |

*1 It is possible to edit an HTML file.

*2 □: 0 to 3

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# MEMO

# REVISIONS

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| October 2020 | A | First Edition |
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