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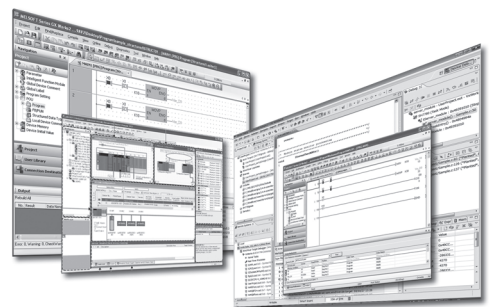
User Web Page Design Tool Operating Manual

-SW1DNN-WSVDT-MD

SAFETY PRECAUTIONS

(Read this section before using this product.)

When using this product, make sure that this manual and other related manuals introduced in this manual are read carefully, and be reminded to treat this product correctly while paying due attention to safety.

Precautions shown in this manual describe only those about this product. For safety precautions as a PLC system, refer to the user's manual of a module used.

In this manual, safety precautions are ranked and classified into "⚠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.

For your information, even if a precaution is classified into the category "⚠CAUTION" and described, it may lead to a significant consequence, depending on its situation.

Precautions classified into both categories describe what are important, and therefore make sure to observe them.

Keep this manual in a safe place so that it can be read whenever necessary, and make sure that it will be delivered to its end users.

[DESIGN PRECAUTIONS]

⚠WARNING

● If a communication cable is disconnected, the network may be unstable, resulting in a communication failure of multiple stations. Construct an interlock circuit in the program so that the system always operates on the safe side even if communications fail. Incorrect output or malfunction may result in an accident.

[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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(1) MELSEC programmable controller ("the PRODUCT") shall be used in conditions;

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INTRODUCTION

Thank you for purchasing Mitsubishi Electric Corporation's PLC.

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.

Be reminded that this manual will surely be delivered to this product's end users.

CONTENTS

RELEVANT MANUALS

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. 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. For the Web server functions, this describes the details of JavaScript components which can be used in a user Web page.
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.)
FX5CPU	This is a generic name for MELSEC iQ-F series CPU modules.
GX Works3	This is a generic name for products whose product model name is SWnDND-GXW3. ("n" denotes their version.)
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 25 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 2 GHz or better is recommended.
Required memory size	8 GB or more is recommended.
Hard disk free space	400 MB 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)
Supporting CPU modules	■MELSEC iQ-R series[2] • R01CPU and R02CPU: Firmware version "18" or later[3] • CPU modules other than those above: Firmware version "50" or later[4] ■MELSEC iQ-F series • FX5S CPU modules: Firmware version "1.000" or later • FX5UJ CPU modules: Firmware version "1.020" or later • FX5U/FX5UC CPU modules: Firmware version "1.220" or later

*1 English, Japanese, and Chinese (simplified characters) are supported as the display languages of this tool. (☞ Page 25 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**
Personal computer	Microsoft® Windows®	Internet Explorer®	11	11
		Microsoft® Edge	85	85
		Google Chrome	85	85
Tablet Smartphone	Android®	Mobile Google Chrome	81	81
	iOS®	Mobile Safari	12	12

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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
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react-dom	16.13.0	MIT License
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react-router	5.1.2	MIT License
react-select	3.1.0	MIT License
react-tabs	3.1.0	MIT License
react-i18next	11.3.5	MIT License
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redux-actions	2.6.5	MIT License
redux-localstorage	0.4.1	MIT License
redux	4.0.5	MIT License
redux-thunk	2.2.0	MIT License
bootstrap	4.4.1	MIT License
i18next	19.4.2	MIT License
sweetalert2	9.10.12	MIT License
fs-extra	9.0.0	MIT License
file-exists	5.0.1	MIT License
babel	7.9.0	MIT License
history	4.10.1	MIT License
immer	6.0.3	MIT License
jquery	3.5.1	MIT License
popper.js	1.16.0	MIT License
prop-types	15.7.2	MIT License
Json.NET	12.0.3	MIT License
lodash	4.17.15	MIT License
extend	3.0.2	MIT License
mxgraph-js	1.0.1	Apache License 2.0
guid-typescript	1.0.9	ISC 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.
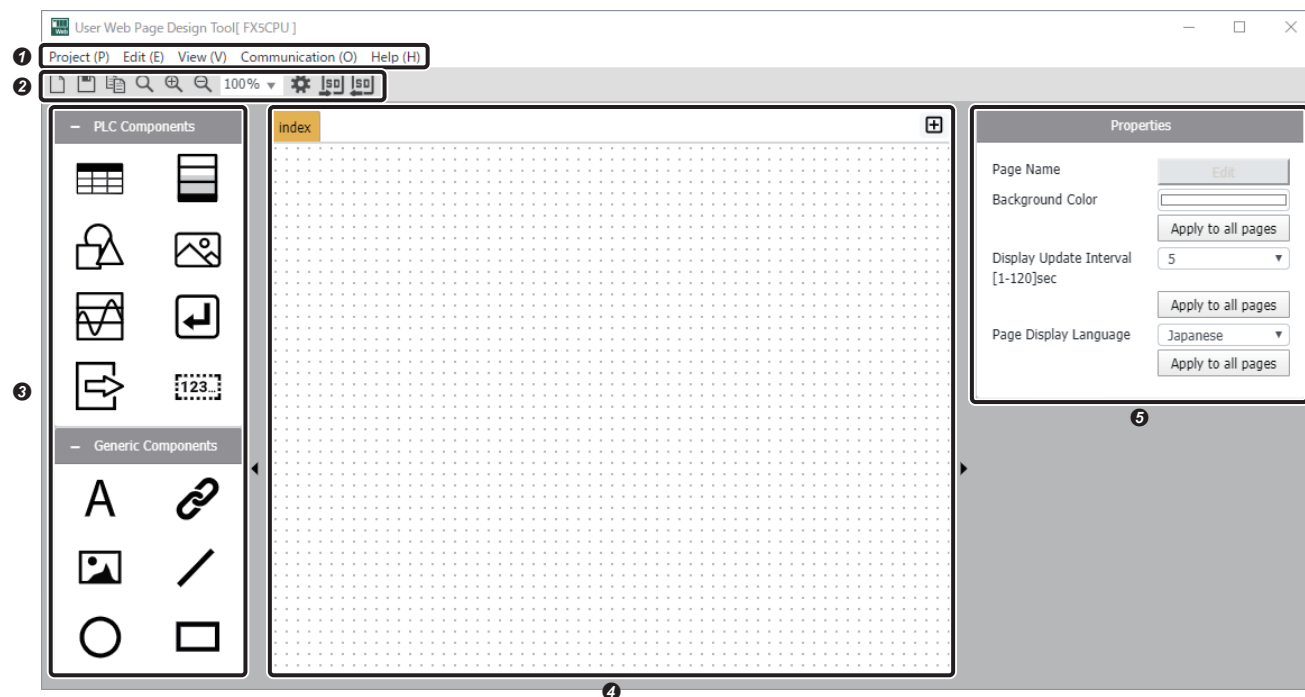
❶ Menu bar (☞ Page 23 Menu Bar)

❷ Tool buttons (☞ Page 29 Tool Buttons)

❸ Component window (☞ Page 30 Component Window)

❹ Design window (☞ Page 45 Design Window)

❺ Property window (☞ Page 46 Property Window)

2.2 Shortcut

Shortcuts can be used for this tool.

Shortcut	Description	Reference
Ctrl + N	Create Project	Page 23 Create Project
Ctrl + O	Open	Page 23 Open
Ctrl + S	Save	Page 23 Save
Ctrl + Shift + P	Preview	Page 24 Preview
Alt + F4	End Tool	Page 23 Exit
Delete	Delete Component Currently Selected	Page 45 Context menu

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 23 Project)
- Edit (☞ Page 24 Edit)
- View (☞ Page 24 View)
- Communication (☞ Page 25 Communication)
- Help (☞ Page 28 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.
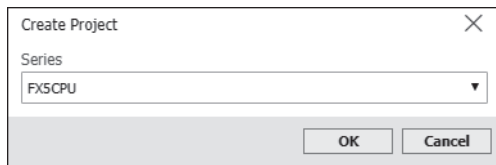
[Range]
- FX5CPU
- RCPU

■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)
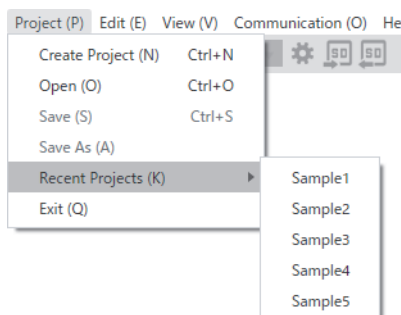

■Exit

[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.

Create Page	×
Page Name	
OK	Cancel
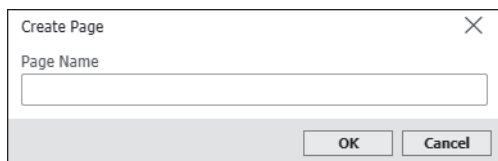
For a file name, only half-width alphanumeric characters, "-", and "_" can be used, and no more than 26 such characters must be entered. A file name can be changed from its property window. (☞ Page 46 Property Window)

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.

Guide Settings	×
Width	
	1920
Height	
	1080
Color code	
Display	
Display	▼
Reset to Default	OK Cancel
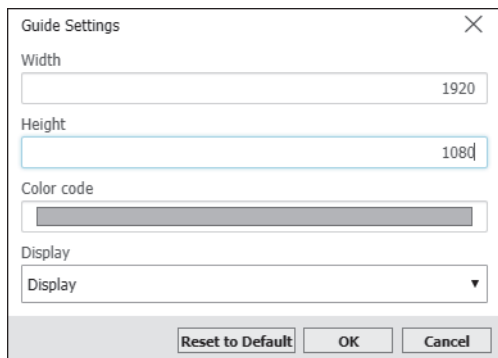
Such guide settings will be reflected in all pages within a project in question.
[Range]
· Width: 1 to 3840
· Height: 1 to 2160
· Color code: This will be selected from the color palette.
· Display: Display/Not Display
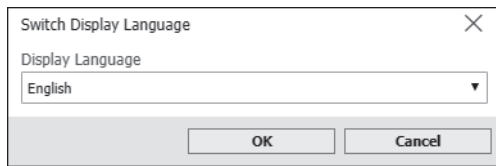These settings can be initialized using "Reset to Default."

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 in which the FTP server settings are configured 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)

■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 60 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.
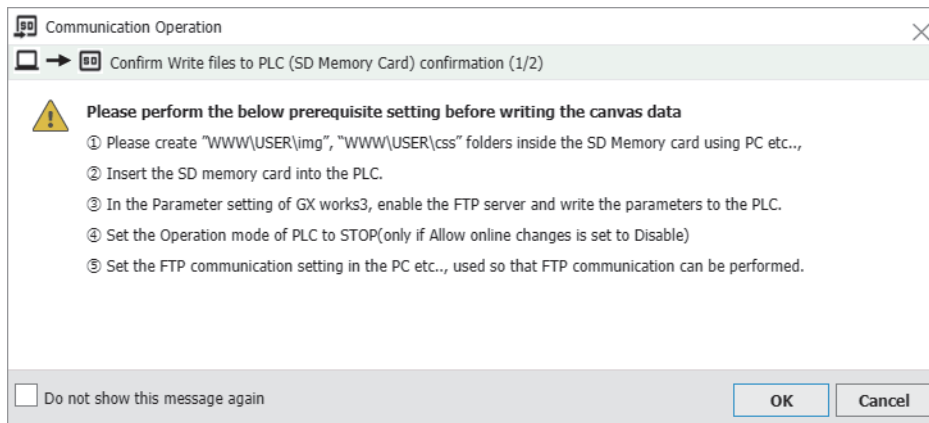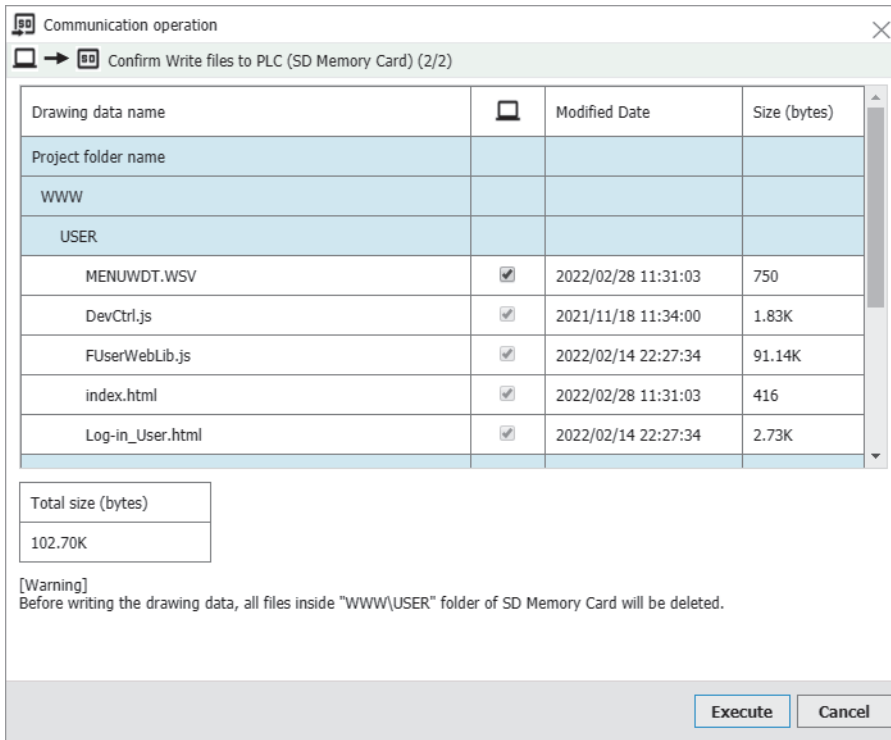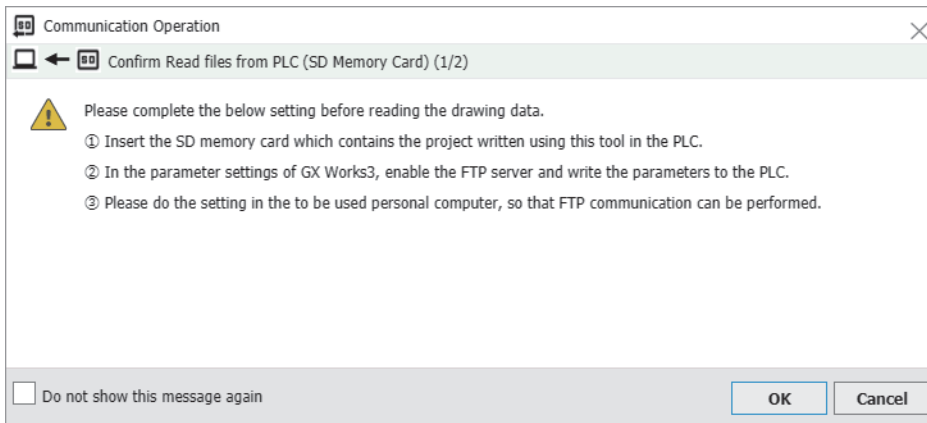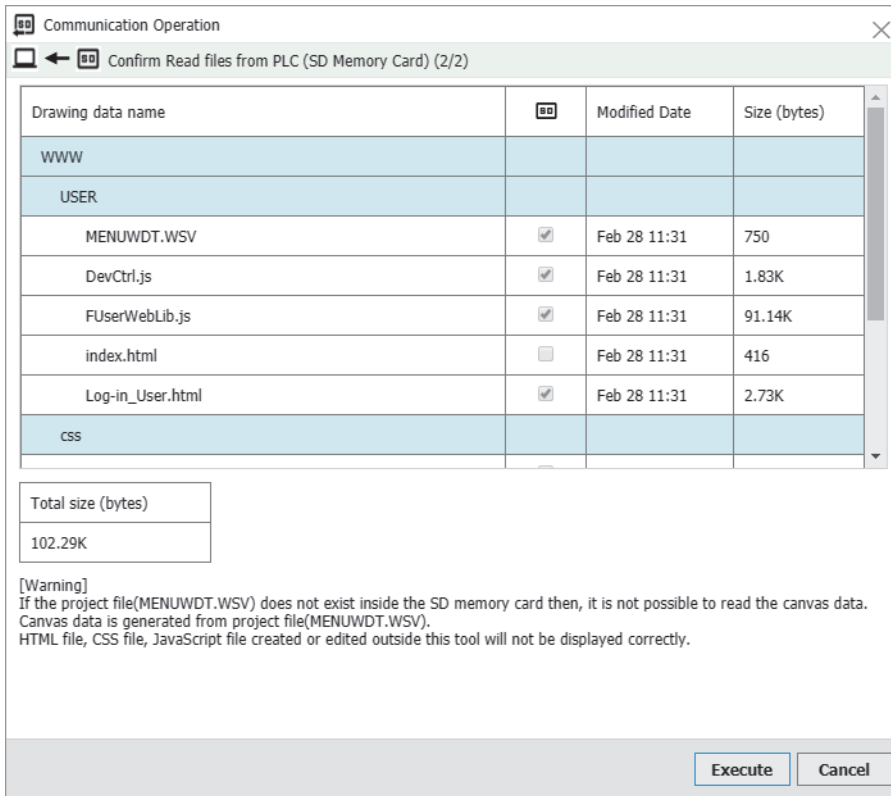
■Read files from PLC (SD Memory Card)

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

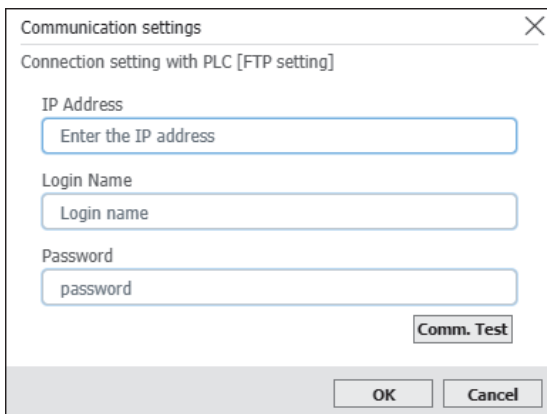This is used to read a project from an SD memory card attached to a CPU module.

■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 (alphanumeric characters)
 • Password: 0 to 32 half-width characters (alphanumeric characters)

■Range (FX5CPU)
 • IP Address: 0.0.0.1 to 223.255.255.254
 • Login Name: 1 to 12 half-width characters (alphanumeric characters)
 • Password: 1 to 32 half-width characters (alphanumeric characters)

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)

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] This is used to select a CPU module's series and newly create a project.	Page 23 Create Project
	[Save Project] This is used to overwrite and save the project currently opened.	Page 23 Save
	[Copy Page] This is used to set a page name and copy the design window currently displayed.	—
	[Preview] This is used to preview the design window currently displayed, on a web browser.	Page 24 Preview
	[Zoom-In] This is used to zoom in on the display. Each click of this button increases the zoom level by 10%. (200% maximum)	—
	[Zoom-Out] This is used to zoom out on the display. Each click of this button decreases the zoom level by 10%. (10% minimum)	—
100%	[Zoom] 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] This is used to configure FTP communication with a CPU module.	Page 27 Communication Settings
	[Write files to PLC (SD Memory Card)] This is used to write a project to an SD memory card attached to a CPU module.	Page 25 Write files to PLC (SD Memory Card)
	[Read files from PLC (SD Memory Card)] This is used to read a project from an SD memory card attached to a CPU module.	Page 26 Read files from PLC (SD Memory Card)

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 45 Design Window) To configure an individual item's settings, use its property window. (Page 46 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)

PLC components

The followings can be used as PLC components.

Icon	Description	Reference
	[UserWebPage component - Data Block] This is used to display specified device data items in a tabular format. Multiple devices and their directions can also be specified.	Page 31 Data Block
	[UserWebPage component - Level Display] 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 32 Level Display
	[UserWebPage component - Graphic Display] 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 33 Graphic Display
	[UserWebPage component - Image Display] This is used to display a specified image file when the current value of a specified device is within a set range.	Page 34 Image Display
	[UserWebPage component - Historic Graph] 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 35 Historic Graph
	[UserWebPage component - Input Button] This is used to display a preset button that writes a value to a specified device.	Page 36 Input Button
	[UserWebPage component - Logout Button] 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 36 Logout Button
123...	[PLC component - Arbitrary value write Button] This is used to display a set of an input field and a write button to write an arbitrary value.	Page 37 Arbitrary value write Button

The current value of a device will be updated at regular intervals. (Page 46 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.

Property window	Properties		Settings
	Direction		Vertical, Horizontal
	Block Size		1 to 32
	Device Property		☞ Page 31 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	
		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	
		Cell Width	10 to 1920
		Cell Height	10 to 1080
	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.

■Device Property

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

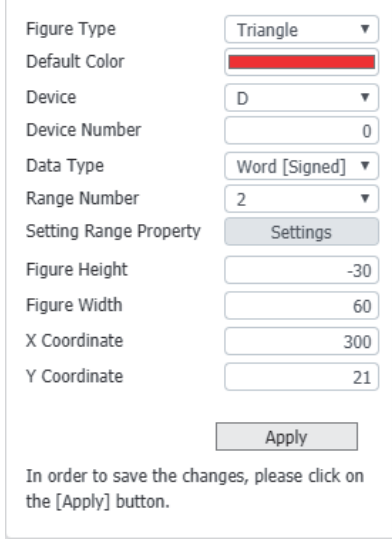| Properties	Settings
Display Label	No more than 100 characters
Device	☞ Page 42 Device settings
Data Type	
Display Format	
+	This is used to add a line to a displayed device.
-	This is used to delete a line from a displayed device. (The second line or thereafter)

Level Display

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

Property window		Properties		Settings
Direction [Vertical ▼] Device [D ▼] Device Number [0] Data Type [Word [Signed] ▼] Level Color [■] Upper Color [■] Lower Color [■] Background Color [ ] Upper Value [32767] Lower Value [-32768] — **Alarm Value** Display Line ◉ Display ○ Not Display Line Color [■] Upper Value [20000] Lower Value [-20000] — **Current Value** Display ◉ Display ○ Not Display Color [ ] Background Color [■] Width [150] Height [50] Level Length [400] Level Width [150] X Coordinate [214] Y Coordinate [33] [Apply] In order to save the changes, please click on the [Apply] button.		Direction		Vertical, Horizontal
		Device		☞ Page 42 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 43 Settings (Decimal)
		Lower Value		
		Alarm Value	Display Line	Display, Not Display
			Line Color	This will be selected from the color palette.
			Upper Value	☞ Page 43 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
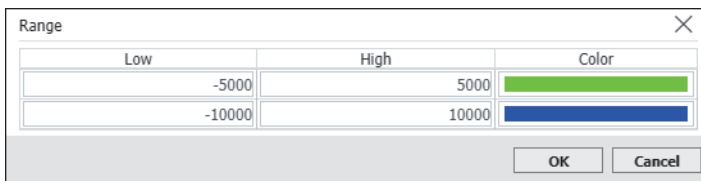
Below are setting items which will be displayed in its property window.

Property window	Properties	Settings
Figure Type — Triangle	Figure Type	Triangle, Rectangle, and Ellipse
Default Color — (red)	Default Color	This will be selected from the color palette.
Device — D	Device	☞ Page 42 Device settings
Device Number — 0	Device Number	
Data Type — Word [Signed]	Data Type	
Range Number — 2	Range Number	1 to 5
Setting Range Property — Settings	Figure Height[*1]	-2160 to -1, 1 to 2160
Figure Height — -30	Figure Width	10 to 3840
Figure Width — 60	X Coordinate	0 to 3840
X Coordinate — 300	Y Coordinate	0 to 2160
Y Coordinate — 21		
Apply		
In order to save the changes, please click on the [Apply] button.		

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

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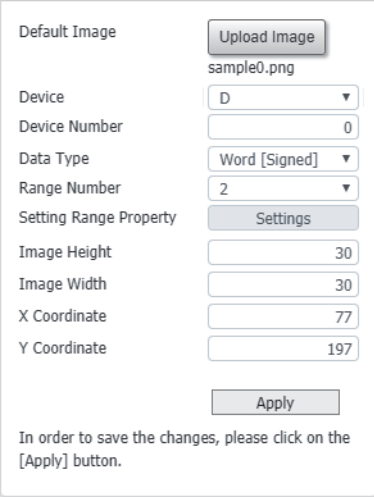
A figure's upper and lower limits can be set to change its color. Depending on the number of ranges set, the number of settings will vary.

Range			
Low	High	Color	
-5000	5000	(green)	
-10000	10000	(blue)	
		OK Cancel	

Properties	Settings
Low	☞ Page 43 Settings (Decimal)
High	
Color	This will be selected from the color palette.

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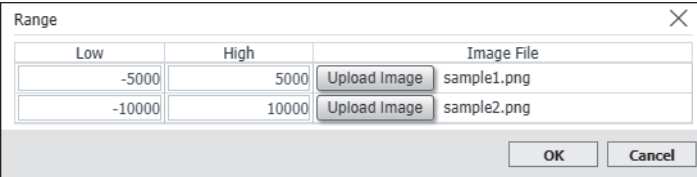
Below are setting items which will be displayed in its property window.

Property window	Properties	Settings
Default Image [Upload Image] sample0.png Device: D Device Number: 0 Data Type: Word [Signed] Range Number: 2 Setting Range Property: [Settings] Image Height: 30 Image Width: 30 X Coordinate: 77 Y Coordinate: 197 [Apply] In order to save the changes, please click on the [Apply] button.	Default Image[*1]	☞ Page 44 Image file
	Device	☞ Page 42 Device settings
	Device Number	
	Data Type	
	Range Number	1 to 5
	Image Height	10 to 3840
	Image Width	10 to 2160
	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."

■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.

Range			✕
Low	High	Image File	
-5000	5000	[Upload Image] sample1.png	
-10000	10000	[Upload Image] sample2.png	
		[OK] [Cancel]	

Properties	Settings
Low	☞ Page 43 Settings (Decimal)
High	
Image File	☞ Page 44 Image file

Historic Graph

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

Property window	Properties	Settings
	Graph Element Number	1 to 32
	Data Type	☞ Page 42 Device settings
	Upper Limit Value	☞ Page 43 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

The property window shows:
Graph Element Number: 2
Graph Element Property: Settings
Data Type: Word [Signed]
Upper Limit Value: 32767
Lower Limit Value: -32768
Number Of Records: 20
Vertical Axis Interval: 5
Number Of Horizontal Axe: 9
Graph Background Color
Character Color
Right Margin: 25
Left Margin: 75
Upper Margin: 15
Lower Margin: 55
Graph Height: 380
Graph Width: 550
X Coordinate: 390
Y Coordinate: 38

Apply

In order to save the changes, please click on the [Apply] button.

■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.

Graph Elements window:

Device Name	Device Number	Line Color
D	0	(red)
D	1	(blue)

OK   Cancel

Properties	Settings
Device Name	☞ Page 42 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.

Property window	Properties	Settings
Device: X ▼	Device	☞ Page 42 Device settings
Device Number: 0	Device Number	
Data Type: Bit ▼	Data Type	
Display Format: Binary ▼	Display Format	
Write Value: 1	Write Value	☞ Page 43 Settings
Button Text: OK	Button Text	No more than 100 characters
Write Confirm: Display ▼	Write Confirm	Display, Not Display
Button Width: 150	Button Width	10 to 3840
Button Height: 50	Button Height	10 to 2160
X Coordinate: 143	X Coordinate	0 to 3840
Y Coordinate: 233	Y Coordinate	0 to 2160
Apply		
In order to save the changes, please click on the [Apply] button.		

Logout Button

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

Property window	Properties	Settings
Button Text: Logout	Button Text	No more than 100 characters
Button Width: 100	Button Width	10 to 3840
Button Height: 26	Button Height	10 to 2160
X Coordinate: 1020	X Coordinate	0 to 3840
Y Coordinate: 130	Y Coordinate	0 to 2160
Apply		
In order to save the changes, please click on the [Apply] button.		

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
	Button Text	No more than 100 characters
	Input Value	☞ Page 43 Settings
	Device	☞ Page 42 Device settings
	Device Number	
	Data Type	
	Write Format	
	Write Confirm	Display, Not Display
	Font Size	1 to 1500
	Width	10 to 3840
	Height	10 to 2160
	X Coordinate	0 to 3840
	Y Coordinate	0 to 2160

Property window contents:

Position	Right
Button Text	SET
Input Value	0
Device	D
Device Number	0
Data Type	Word [Signed]
Write Format	Decimal
Write Confirm	Display
Font Size	20
Width	220
Height	30
X Coordinate	280
Y Coordinate	230

Apply

In order to save the changes, please click on the [Apply] button.

Generic components
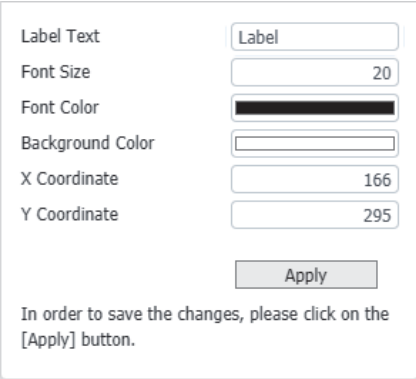
For generic components, the followings can be used.

Icon	Description	Reference
A	[Label] This is used to display a label.	Page 38 Label
🔗	[Hyper Link] 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 39 Hyper Link
🖼	[Image Tag] This is used to display an image file.	Page 40 Image Tag
/	[Line] This is used to display a line in a specified area.	Page 40 Line
○	[Ellipse] This is used to display an ellipse.	Page 41 Ellipse
▭	[Rectangle] This is used to display a rectangle.	Page 41 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
Label Text [Label] Font Size [20] Font Color [■] Background Color [ ] X Coordinate [166] Y Coordinate [295] [Apply] In order to save the changes, please click on the [Apply] button.	Label Text	No more than 1000 characters
	Font Size	1 to 1500
	Font Color	This will be selected from the color palette.
	Background Color	This will be selected from the color palette.
	X Coordinate	0 to 3840
	Y Coordinate	0 to 2160

Hyper Link

Below are setting items which will be displayed in its property window.
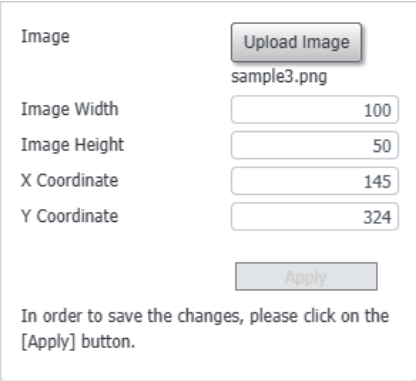
Property window	Properties	Settings
	Type	Page, URL
	URL	No more than 1000 characters[*1]
	Page	Select a page that is already created and other than the own page.[*2]
	Target	Other window, Same window
	Text	1000 characters
	Font Size	1 to 1500
	X Coordinate	0 to 3840
	Y Coordinate	0 to 2160

*1   When "URL" is selected for the type property, it can be edited.
*2   When "Page" is selected for the type property, it can be edited.
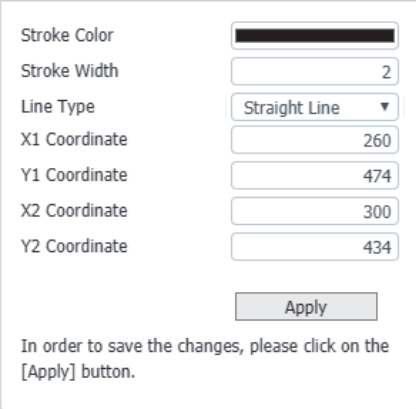
Image Tag

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

Property window	Properties	Settings
	Image	☞ Page 44 Image file
	Image Width	10 to 3840
	Image Height	10 to 2160
	X Coordinate	0 to 3840
	Y Coordinate	0 to 2160

Image — Upload Image — sample3.png

Image Width 100
Image Height 50
X Coordinate 145
Y Coordinate 324

Apply

In order to save the changes, please click on the [Apply] button.

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

Stroke Color
Stroke Width 2
Line Type Straight Line ▼
X1 Coordinate 260
Y1 Coordinate 474
X2 Coordinate 300
Y2 Coordinate 434

Apply

In order to save the changes, please click on the [Apply] button.

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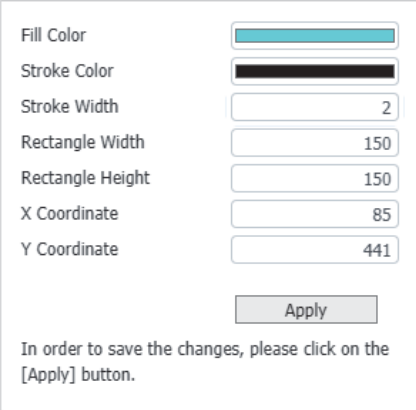
Below are setting items which will be displayed in its property window.

Property window	Properties	Settings
Stroke Color ▬ Stroke Width `1` Fill Color ▬ Ellipse Width `100` Ellipse Height `100` X Coordinate `660` Y Coordinate `650` Apply In order to save the changes, please click on the [Apply] button.	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 ▬ Stroke Color ▬ Stroke Width `2` Rectangle Width `150` Rectangle Height `150` X Coordinate `85` Y Coordinate `441` Apply In order to save the changes, please click on the [Apply] button.	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 a component 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	×	×	×
ST	Retentive timer	Contact: STS/Coil: STC	×	×	×	○
		Current value: STN	○: K, H	×	×	×
C	Counter	Contact: CS/Coil: CC	×	×	×	○
		Current value: CN	○: K, H	×	×	×
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.

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 (only RCPU)	-1.797693e+308 to +1.797693e+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 60 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 45 Context menu)

Window folding

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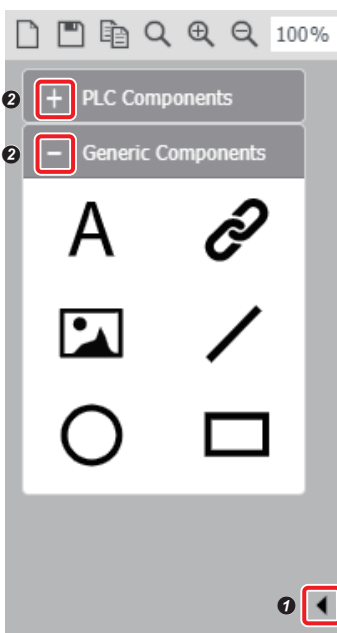
Click the symbol on the right side of ❶ to fold a component window in question. If a component window is folded, click such a symbol to unfold it. Click the symbol on the right side of ❷ to fold a corresponding PLC/generic component's list.

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

index [Page1 ✖] Page2 ✖

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

Delete HTML file

index [Page1 ✖] Page2 ✖

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 24 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
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. "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[1]	This is used to bring a generic/arbitrary value write button 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[1]	This is used to send a generic/arbitrary value write button 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)

[1] This applies to a PLC component only if it is an arbitrary value write button component.

■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.
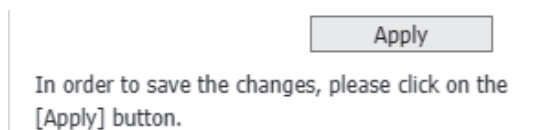
Component properties

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 30 Component Window.

Delete component

×

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

"Apply" button

Apply

In order to save the changes, please click on the [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 24 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 component of library for Web server function	User Web Page Design Tool	Setting range
RCPU	Earlier than version "1.03"	Version "1.00A"	5 to 120 (second)
	Version "1.03" or later	Version "1.01B" or later	1 to 120 (second)
FX5CPU	Earlier than version "1.003"	Version "1.00A"	5 to 120 (second)
	Version "1.003" or later	Version "1.01B" or later	1 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".
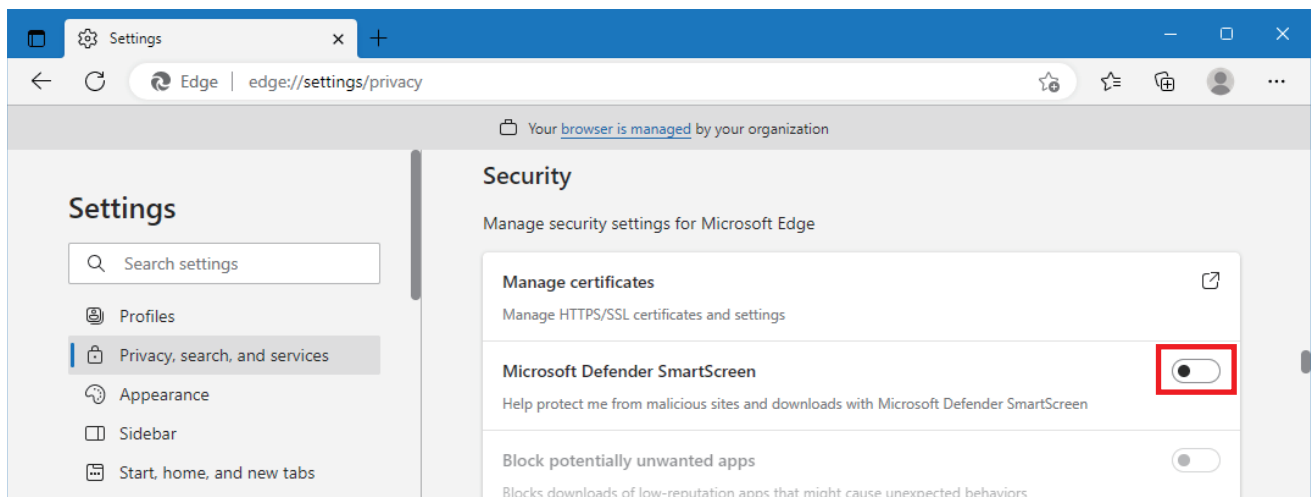
- To uninstall, execute uninstall.exe and uninstall the tool according to the message.

■Start and End

To start it: [Start Menu] ⇨ [UserWebPageDesignTool] ⇨ [UserWebPageDesignTool]
To end it: [Project] ⇨ [Exit] (☞ Page 23 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 25 Communication.
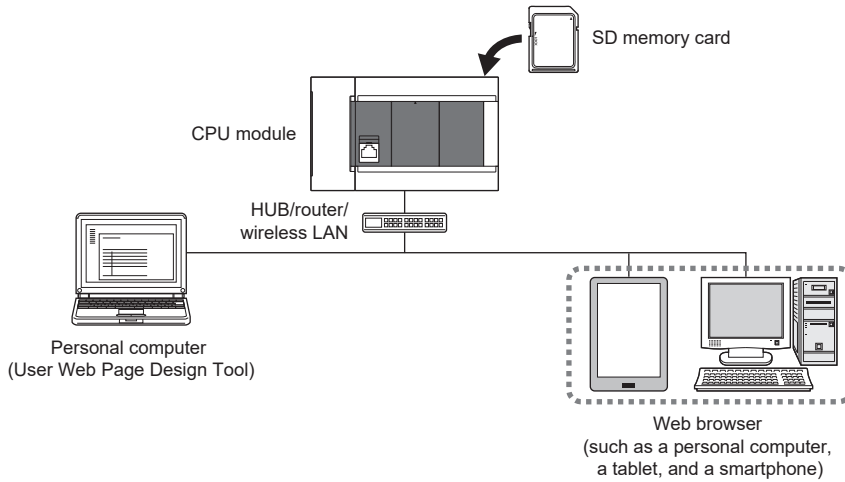
Use a straight cable with either of the following specifications. If a personal computer is to be directly connected to a CPU module with an Ethernet cable, a cross cable whose specification is category 5e or less can be used.
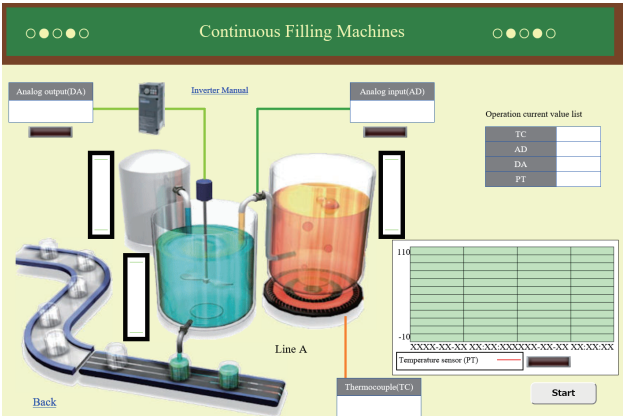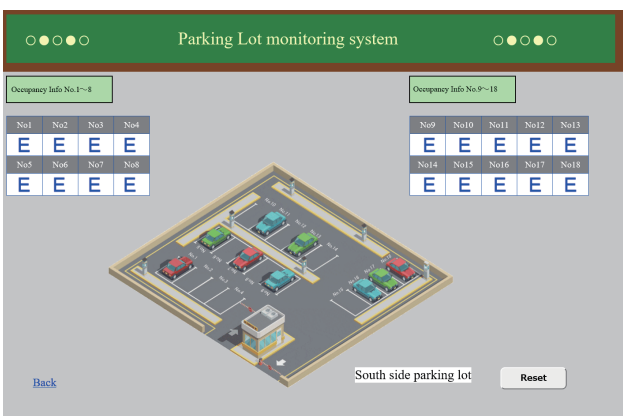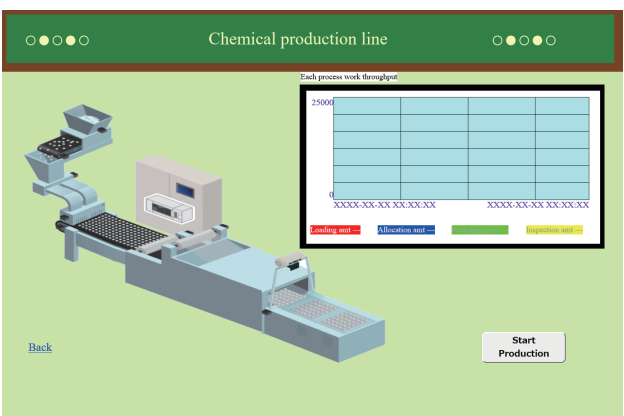[When 100BASE-TX connection is available]
Cable products compliant with the Ethernet standard whose specification is category 5 or better (STP cables)
[When 10BASE-T connection is available]
Cable products compliant with the Ethernet standard whose specification is category 3 or better (STP cables)

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 60 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 23 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 24 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.
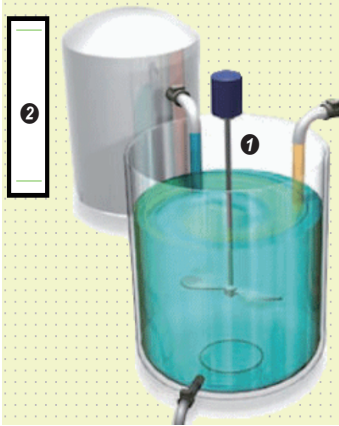
[Tank] This monitors water storage (R3) in the equipment's tank

[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. ❶ Image tag components In this example, the image files of "Tank" and "Liquid tank 1" are the same. ❷ Level display and rectangle components This shows the water storage (R3) using a level indication.

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

❺The 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)

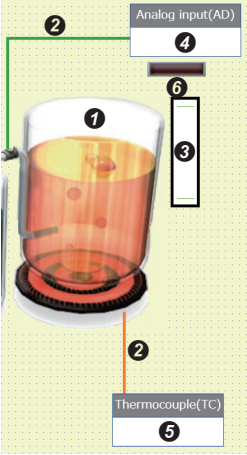| Properties		Settings	Properties		Settings
Direction		Horizontal	Device Value	Font Color	Set this optionally.
Block Size		1		Background Color	
Device Property	Display Label	Analog output(DA)		Cell Width	190
	Device	D102		Cell Height	50
	Data Type	word [signed]	X Coordinate		Set this optionally.
	Display 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. **❶** Image tag components **❷** Line components **❸** Level display and rectangle components This shows a water level (R2) in the liquid tank using a level indication. The rectangular component has to be located so that it will overlap with the level display component. **❹** Data block component This displays the analog input value (D101). **❺** Data block components This shows the measured temperature of temperature (D100). **❻** Image display components This indicates whether the analog input value is monitored.

❸The 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)
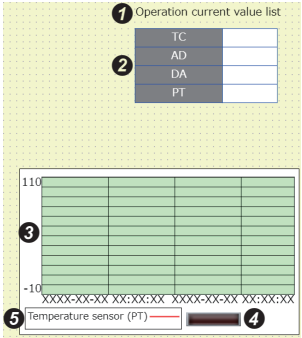
Properties		Settings	Properties		Settings
Direction		Horizontal	Device Value	Font Color	Set this optionally.
Block Size		1		Background Color	
Device Property	Display Label	Thermocouple(TC)		Cell Width	190
	Device	D100		Cell Height	50
	Data Type	word [signed]	X Coordinate		Set this optionally.
	Display 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. ❶ Label components ❷ Data block components This shows the analog input/output values (D101 and D102) and the temperatures (D100 and R100). ❸ Historic graph components This shows the temperature (R100) in a time series line graph. ❹ Image display components This shows whether the temperatures are monitored. 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

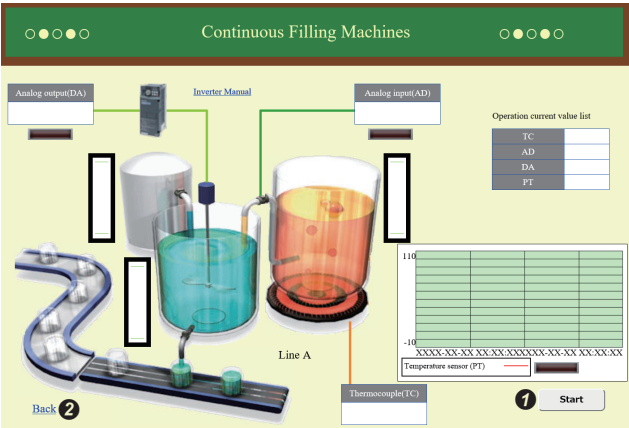❸ The following items are set for the historic graph component. (Property window)

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. ❶ Input button components A button (Y0) to start monitoring will be allocated. ❷ Hyper link components A hyper link to return to the top page will be allocated.

❶The 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 60 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 27 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.

> **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 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, the 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

If FTP communication fails, refer to the following document for troubleshooting.

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

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

Refer to the document MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book for more information about the Web server functions.

4

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.
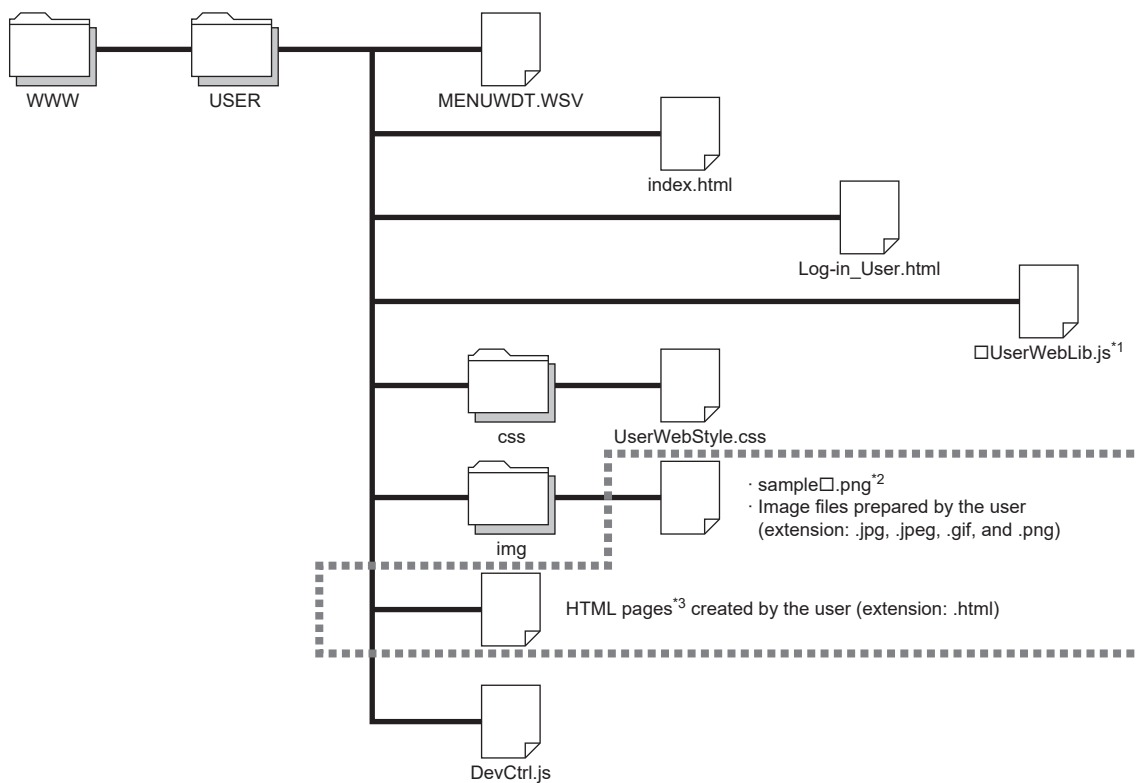
*1   Its file name varies, depending on a project's series.
     RCPU: RUserWebLib.js
     FX5CPU: FUserWebLib.js
*2   □: 0 to 3
*3   If an HTML file is created and edited by one other than this tool and is read, it will not be displayed correctly.

■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.
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

A

MEMO

INDEX

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MEMO

REVISIONS

Revision date	Revision	Description
October 2020	A	First Edition
October 2021	B	■Added or modified part Section 1.2
May 2022	C	■Added or modified parts Chapter 1, 2, 3, 4, Appendix 1
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