

# **Programmable Controller**

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

# SAFETY PRECAUTIONS

(Read these precautions before using this product.)

Before using Mitsubishi Electric programmable controllers, please read the manuals for the products used and the relevant manuals carefully and pay full attention to safety to handle the products correctly.

In this manual, the safety precautions are classified into two levels: "\_\_\_\_\_WARNING" and "\_\_\_\_\_CAUTION".



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

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]

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- When connecting an external device with a CPU module or intelligent function module to modify data of a running programmable controller, configure an interlock circuit in the program to ensure that the entire system will always operate safely. For other forms of control (such as program modification, parameter change, forced output, or operating status change) of a running programmable controller, read the relevant manuals carefully and ensure that the operation is safe before proceeding. Improper operation may damage machines or cause accidents.
- 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.
- Do not write any data to the "system area" and "write-protect area" of the buffer memory in the module. Also, do not use any "use prohibited" signals as an output signal from the CPU module to each module. Doing so may cause malfunction of the programmable controller system. For the "system area", "write-protect area", and the "use prohibited" signals, refer to the user's manual for the module used.
- To maintain the safety of the programmable controller system against unauthorized access from external devices via the network, take appropriate measures. To maintain the safety against unauthorized access via the Internet, take measures such as installing a firewall.

### [Wiring Precautions]

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- Securely connect the connector to the module. Poor contact may cause malfunction.
- Do not install the control lines or communication cables together with the main circuit lines or power cables. Keep a distance of 100mm or more between them. Failure to do so may result in malfunction due to noise.
- Place the cables in a duct or clamp them. If not, dangling cables may swing or inadvertently be pulled, resulting in malfunction or damage to modules or cables.
   In addition, the weight of the cables may put stress on modules in an environment of strong vibrations and shocks.
- When disconnecting the communication cable or power cable from the module, do not pull the cable by the cable part. Pulling the cable connected to the module may result in malfunction or damage to the module or cable.
- Check the interface type and correctly connect the cable. Incorrect wiring (connecting the cable to an incorrect interface) may cause failure of the module and external device.
- For Ethernet cables to be used in the system, select the ones that meet the specifications in the user's manual for the module used. If not, normal data transmission is not guaranteed.

### [Startup and Maintenance Precautions]

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- When connecting an external device with a CPU module or intelligent function module to modify data of a running programmable controller, configure an interlock circuit in the program to ensure that the entire system will always operate safely. For other forms of control (such as program modification, parameter change, forced output, or operating status change) of a running programmable controller, read the relevant manuals carefully and ensure that the operation is safe before proceeding. Improper operation may damage machines or cause accidents.
- 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.
- After the first use of the product, do not insert/remove the SD memory card to/from the CPU module more than 500 times. Exceeding the limit may cause malfunction.
- Do not touch the metal terminals on the back side of the SD memory card. Doing so may cause malfunction or failure of the module.

### [Operating Precautions]

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When changing data and operating status, and modifying program of the running programmable controller from an external device such as a personal computer connected to an intelligent function module, read relevant manuals carefully and ensure the safety before operation. Incorrect change or modification may cause system malfunction, damage to the machines, or accidents.

# **CONDITIONS OF USE FOR THE PRODUCT**

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

i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and

ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries. MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT.

("Prohibited Application")

Prohibited Applications include, but not limited to, the use of the PRODUCT in;

- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above restrictions, Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi representative in your region.

# INTRODUCTION

Thank you for purchasing the Mitsubishi Electric programmable controllers.

This manual describes the specifications, parameter settings, procedures before operation, system configuration, functions, and troubleshooting of the Web server function.

Before using the products, please read this manual carefully and develop familiarity with the Web server function to handle the products correctly.

When applying the program examples provided in this manual to an actual system, ensure the applicability and confirm that it will not cause system control problems.

Please make sure that the end users read this manual.

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### **RELEVANT MANUALS**

Manual name [manual number]	Description	Available form
MELSEC iQ-R/MELSEC iQ-F Web Server Function Guide Book [SH-081982ENG] (this manual)	Specifications, procedures before operation, and troubleshooting of the Web server function	e-Manual PDF
MELSEC iQ-R Ethernet User's Manual (Application)	Functions, parameter settings, programming, troubleshooting, I/O	Print book
[SH-081257ENG]	signals, and buffer memory of Ethernet. For the Web server function, details on JavaScript objects that can be used in the user Web page.	e-Manual PDF
MELSEC iQ-F FX5 User's Manual (Ethernet Communication) [JY997D56201]	Functions of the built-in Ethernet port communication. For the Web server function, details on JavaScript objects that can be used in the user Web page.	e-Manual PDF
MELSEC iQ-R CPU Module User's Manual (Application)	Memory, functions, devices, and parameters of the CPU module	Print book
[SH-081264ENG]		e-Manual PDF
GX Works3 Operating Manual [SH-081215ENG]	System configuration, parameter settings, and online operations of GX Works3	e-Manual PDF

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e-Manual refers to the Mitsubishi Electric FA electronic book manuals that can be browsed using a dedicated tool. e-Manual has the following features:

- Required information can be cross-searched in multiple manuals.
- Other manuals can be accessed from the links in the manual.
- The hardware specifications of each part can be found from the product figures.
- Pages that users often browse can be bookmarked.
- Sample programs can be copied to an engineering tool.

# TERMS

Term	Description
Buffer memory	Memory in an intelligent function module for storing data such as setting values and monitored values. When integrated into the CPU module, this memory refers to a memory for storing data such as setting values and monitored values of the Ethernet function, and data used for data communication of the multiple CPU system function.
Device	A device (X, Y, M, D, or others) in a CPU module
Engineering tool	A tool used for setting up programmable controllers, programming, debugging, and maintenance

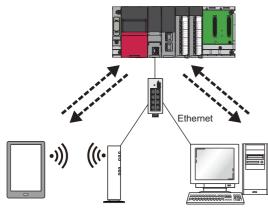
# **1** WEB SERVER FUNCTION

The Web server function can read/write device data from/to the CPU module by using a Web browser. The device data can be read/written from/to the CPU module by using a general-purpose Web browser of not only an Ethernet-connected personal computer but also a tablet or smartphone via Ethernet. An original Web page can be created by users and displayed as well.

### Operations available with the Web server function

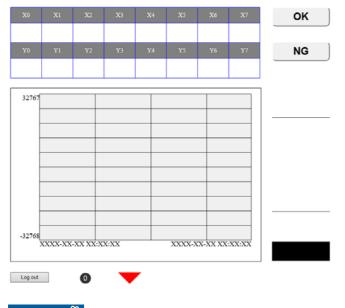
### ■To read/write device data from/to the CPU module by using a Web browser

The CPU module can be operated and the data in the CPU module can be displayed by using a Web browser via Ethernet. Since a Web browser of a tablet and smartphone can also be used, these operations can be performed easily.



### ■To create an original Web page (user Web page)

An original Web page can be created by users. The created Web page can be displayed on a Web browser as a user Web page. The layout and functions to be displayed on the Web page can be set freely.



Restriction ("

MELSEC iQ-R series

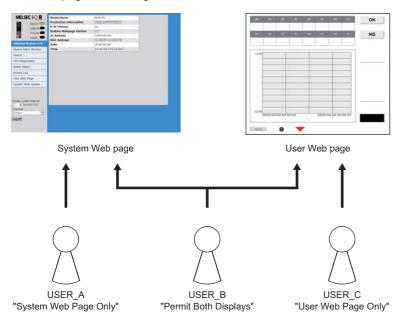
• An SD memory card is required to display a user Web page. Therefore, the R00CPU does not support the user Web page.

MELSEC iQ-F series

 In MELSEC iQ-F series CPU modules, the FX5U CPU module and FX5UC CPU module support the user Web page.

### To restrict Web server operations/display for each account

User authentication with a user name and password prevents an unauthorized access. Displaying the system Web page and user Web page and writing to the device can be restricted for each account as well.



### List of the Web server function

The following table lists items that can be operated or displayed by using Web server function.

Item	Description	Availability		Reference	
		MELSEC iQ- R	MELSEC iQ- F		
User authentication	The logon/logoff status can be controlled.	0	0	Page 20 Logging on to the Web server	
Detailed module information	Detailed information of the CPU module, such as the model name, production information (product number), and firmware version, is displayed.	0	0	Page 23 Detailed Module Information (Module Information)	
Device batch monitor	Devices and buffer memory areas can be monitored in a batch.	0	0	Page 24 Device batch monitor	
Watch	Devices and buffer memory areas can be monitored individually for each point.	0	0	Page 28 Watch	
Device test	A value can be written to the device area.	0	0	Page 27 Device test	
CPU diagnostics	Existing errors can be checked.	0	0	Page 30 CPU Diagnostics	
Event history	The event history (such as the date and time of occurrence, event code, and detailed information) is displayed.	0	0	Page 32 Event History	
Access log	The history of access to the Web server, the operation performed to the Web server, and the IP address of the access source can be displayed.	0	0	Page 34 Access Log	
User Web page	An original Web page created by users can be displayed.	0	0	Page 41 USING USER WEB PAGE	
System Web page update	The system Web page can be updated by using a system Web page file.	0	×	Page 37 System Web Page Update	
Refreshing cycle of display	The refreshing cycle of the system Web page can be changed.	0	0	Page 38 Refreshing Cycle of Display	
Language switcher	The language displayed on the system Web page is changed to the selected language.	0	0	Page 39 Language switcher	



- The system Web page is the default Web page of the Web server function. Access to the CPU module from a Web browser with the Web server function displays the system Web page. Every Web server function can be used on the system Web page.
- A user Web page is an original Web page created by users that can be displayed by the Web server function. Storing a created Web page to an SD memory card displays the page as a user Web page.

### **1.1** Specifications of Web Server Function

### Specifications of the Web server function

The following table lists the specifications of the Web server function.

Item	Description
Number of users that can simultaneously logs on	4
Own station port number	Default: 80 (variable)
Supported language	<ul> <li>Japanese</li> <li>English</li> <li>Chinese (Simplified)<sup>*1</sup></li> <li>The user Web page supports multiple languages.<sup>*1</sup></li> </ul>
Supported character code	UTF-8
Number of accounts	4
Refreshing cycle	5 to 120 seconds (Default: 5 seconds)

\*1 For the FX5U CPU module and FX5UC CPU module, the ones with the firmware version 1.100 or later support these items.

### **Client operating environment**

The following table lists the clients whose operations have been checked in the Web server function.

Terminal	OS	Browser	Browser version		
			MELSEC iQ-R	MELSEC iQ-F	
				FX5UJ	FX5U, FX5UC
Personal computer	Microsoft <sup>®</sup> Windows <sup>®</sup>	Internet Explorer <sup>®</sup>	11	11	11
		Microsoft <sup>®</sup> Edge	41	44	41
		Google Chrome	62.0	72	55
Tablet	Android <sup>®</sup>	Mobile Google Chrome	61	55	55
Smartphone	iOS®	Mobile Safari	11	11	9

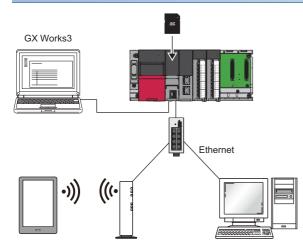


Use a Web browser that supports HTML5, CSS3, and JavaScript for the Web server function.

# **1.2** System Configuration

This section describes the system configuration to use the Web server function.

### System configuration figure



Device name	Description
CPU module	A CPU module with the Web server function (F Page 12 CPU Modules with Web Server Function)
Engineering tool (GX Works3)	Software for configuring settings to enable/disable the Web server function and set user authentication.
Web browser	An HTTP client of a personal computer, tablet, or smartphone
Router/hub/wireless LAN	A network configuration that can connect to an Ethernet network is required to use them for the Web server function.
SD memory card	An SD memory card to which the user Web page is stored. Use it for the user Web page.

### **1.3** CPU Modules with Web Server Function

The following table lists the CPU modules and firmware versions that have the Web server function.

CPU module	Firmware version	Engineering tool version
R00CPU, R01CPU, R02CPU	"05" or later	"1.045X" or later
R04CPU, R04ENCPU, R08CPU, R08ENCPU, R16CPU, R16ENCPU, R32CPU, R32ENCPU, R120CPU, R120ENCPU	"35" or later	"1.045X" or later
FX5U-32MR/ES, FX5U-32MT/ES, FX5U-32MT/ESS, FX5U-64MR/ES, FX5U-64MT/ES, FX5U-64MT/ESS, FX5U-80MR/ES, FX5U-80MT/ES, FX5U-80MT/ESS, FX5U-32MR/DS, FX5U-32MT/DS, FX5U-32MT/DSS, FX5U-64MR/DS, FX5U-64MT/DS, FX5U-64MT/DSS, FX5U-80MR/DS, FX5U-80MT/DS, FX5U-64MT/D, FX5UC-32MT/D, FX5UC-32MT/DSS, FX5UC-64MT/D, FX5UC-64MT/DSS, FX5UC-96MT/D, FX5UC-64MT/DSS, FX5UC-32MT/DS-TS, FX5UC-32MT/DSS-TS, FX5UC-32MR/DS-TS	"1.060" or later	"1.040S" or later
FX5UJ-24MR/ES, FX5UJ-24MT/ES, FX5UJ-24MT/ESS, FX5UJ-40MR/ES, FX5UJ-40MT/ES, FX5UJ-40MT/ESS, FX5UJ-60MR/ES, FX5UJ-60MT/ES, FX5UJ-60MT/ESS	"1.000" or later	"1.060N" or later

# **2** PREPARING FOR USE OF WEB SERVER FUNCTION

This chapter describes the procedure for using the Web server function. The procedure differs depending on the series of the CPU module used.

### **MELSEC iQ-R series**

A system Web page file is required to use the Web server function with the MELSEC iQ-R series CPU module. Please consult your local Mitsubishi representative.

- 1. Prepare the engineering tool and a device where a Web browser can be used.
- 2. Configure CPU module parameters with the engineering tool. ( 🗁 Page 14 Parameter Settings of CPU Module)
- 3. Power off and on or reset the CPU module to reflect the parameter settings. ( Page 17 Reflecting the parameters).
- **4.** Access the CPU module from the Web browser, and write the system Web page to the CPU module. ( Page 18 How to Access Web Server).
- 5. Log on to the Web server. ( Page 20 Logging on to the Web server).
- 6. Log off from the Web server. ( 🖙 Page 20 Logging off from the Web server).

Point P

Before using the Web server function, enable JavaScript and cookies in settings of a Web browser.

### **MELSEC iQ-F series**

- **1.** Prepare the engineering tool and a device where a Web browser can be used.
- 2. Configure CPU module parameters with the engineering tool. ( 🖅 Page 14 Parameter Settings of CPU Module)
- 3. Power off and on or reset the CPU module to reflect the parameter settings. (F Page 17 Reflecting the parameters).
- 4. Access the CPU module from the Web browser. ( Page 18 How to Access Web Server).
- 5. Log on to the Web server. ( Page 20 Logging on to the Web server).
- **6.** Log off from the Web server. ( Page 20 Logging off from the Web server).

Point P

Before using the Web server function, enable JavaScript and cookies in settings of a Web browser.

# 2.1 Parameter Settings of CPU Module

Before using the Web server function, set parameters with the engineering tool.

### IP address settings

Set the IP address of the CPU module. Set the parameters by selecting the following menu items. The menu items to be selected differ depending on the series of the CPU module used.

• MELSEC iQ-R

[Navigation window] ⇒ [Parameter] ⇒ [CPU module] ⇒ [Module Parameter] ⇒ [Basic Settings] ⇒ [Own Node Settings]
 MELSEC iQ-F

[Navigation window] ⇒ [Parameter] ⇒ [CPU module] ⇒ [Module Parameter] ⇒ [Ethernet Port] ⇒ [Basic Settings] ⇒

Item	Setting		•		
Own Node Settings			1		
Parameter Setting Method	Parameter Editor				
IP Address	10.97.79.5		E		
Subnet Mask	255.255.255.0				
Default Gateway	· · ·				
Enable/Disable Online Change	Disable All (SLMP)				
Communication Data Code	Binary				
Opening Method	Do Not Open by Program				
Explanation					
Set the IP address, subnet mask, and default gateway	r for the own node.		*		
Check Restore the De	ault Settings				
		Apply			

#### Web server settings

Set the parameters by selecting the following menu items. The menu items to be selected differ depending on the series of the CPU module used.

- MELSEC iQ-R
- (Navigation window] ⇒ [Parameter] ⇒ [CPU module] ⇒ [Module Parameter] ⇒ [Application Settings] ⇒ [Web Server Settings]
- MELSEC iQ-F
- [Navigation window] ⇒ [Parameter] ⇒ [CPU module] ⇒ [Module Parameter] ⇒ [Ethernet Port] ⇒ [Application Settings]
   ⇒ [Web Server Settings]

Follow the procedure described below.

- 1. Set "Use" for "To Use or Not to Use Web Server Settings".
- 2. Set "Host Station Port No.". ("Host Station Port No." has a setting range. For details on the setting range, refer to the following.)

Setting Item		
Item	Setting	*
Web Server Settings		
To Use or Not to Use Web Server Settings	Use	Ξ
Host Station Port No.	80	
Account Settings	<detailed setting=""></detailed>	-
Explanation		
Set Web Server function.		^
		Ŧ
Check Restore the Default Settings		
	Apply	<u>ן</u>

Item	Description	Setting range	
		MELSEC iQ-R	MELSEC iQ-F
To Use or Not to Use Web Server Settings	Select whether to use the Web server function or not.	Not Use     Use     (Default: Not Use)	
Host Station Port No.	Set the port number to be used with the Web server function. <sup>*1</sup>	80, 1024 to 4999, 5010 to 61439 (The number 45237 cannot be used.) (Default: 80)	80, 1024 to 5548, 5570 to 65534 (Default: 80)
Account Settings	Set the account and password for the Web server function.	Page 16 Account settings	

\*1 The port number used for another Ethernet function cannot be used.

### Account settings

Register or delete an account. When using the MELSEC iQ-R series CPU module, set an authority type can be set to each account.

#### ■Web server account settings

Configure the Web server account settings by selecting the following menu items. The menu items to be selected differ depending on the series of the CPU module used.

• MELSEC iQ-R

(Navigation window] ⇒ [Parameter] ⇒ [CPU module] ⇒ [Module Parameter] ⇒ [Application Settings] ⇒ [Web Server Settings] ⇒ [Account Settings]

• MELSEC iQ-F

 $\bigcirc$  [Navigation window]  $\Rightarrow$  [Parameter]  $\Rightarrow$  [CPU module]  $\Rightarrow$  [Module Parameter]  $\Rightarrow$  [Ethernet Port]  $\Rightarrow$  [Application Settings]  $\Rightarrow$  [Web Server Settings]  $\Rightarrow$  [Account Settings]

Click the [Register] button to register a new user. ( Page 17 Adding a new user)

	erver Account Settings	;				
No	User Name	Write Device	Authority for Window Display	Update System V	Veb Dage	Initial Display Window
1	USER01	Enable	Permit Both Displays	Enable	-	System Web Page
2	USER02	Enable	System Web Page Only	Disable		System Web Page
3	USER03	Disable	User Web Page Only	Disable		User Web Page
Evol	mation					
	anation ange the user name or auth	ority.	_			_
		ority.	_			_
		ority.		_	_	_
		ority.		Register(R)	Change Password(	(c) ) Delete(D)
		ority.		Register(R)	Change Password(	(C) Delete(D)

Item	Description	Setting range
No.	An account No. of each user for the Web server is displayed.	1 to 4
User Name	A user name to be used for the authentication at the access to the Web server is displayed. Click the user name to change it.	1 to 20 one-byte characters (alphanumeric characters and symbols)
Write Device	Enable or disable changing the value in the device test window. (	• Disable • Enable (Default: Disable)
Authority for Window Display <sup>*2*3</sup>	Enable or disable access to the system Web page or user Web page.	<ul> <li>Permit Both Displays</li> <li>System Web Page Only</li> <li>User Web Page Only</li> <li>(Default: System Web Page Only)</li> </ul>
Update System Web Page <sup>*1</sup>	Enable or disable updates of the system Web page. This item can be set when "Permit Both Displays" or "System Web Page Only" is set for "Authority for Window Display".	Disable     Enable (Default: Disable)
Initial Display Window <sup>*2*3</sup>	Set a window that is displayed first after the user logs on. The setting range depends on the setting of "Authority for Window Display".	<ul> <li>System Web Page</li> <li>User Web Page</li> <li>(Default: System Web Page)</li> </ul>
[Register] button	Click this button to register a new user.	-
[Change Password] button	Click this button to change a password.	-
[Delete] button	Click this button to delete a selected user	—

\*1 This item is for MELSEC iQ-R series CPU modules.

\*2 In MELSEC iQ-F CPU modules, the FX5U CPU module and FX5UC CPU module support these items.

\*3 To set these items for the FX5U CPU module and FX5UC CPU module, use the engineering tool with the version 1.047Z or later.

### ■Adding a new user

Click the [Register] button in the "Web Server Account Settings" window to display the "Add New User" window.

Add New User	
User Name(U):	
Password(P):	
Re-enter Password(R):	
Please enter the password with 6 alphabets A to Z, a to Z, single-byts and 1*#\$968()*+,-,/:;<=>?@{]\^_ Passwords are case-sensitive.	to 32 single-byte characters, numeric characters, e space '{ }~.
	OK Cancel

Item	Description	Setting range
Use Name	Input a user name to be used for the authentication at the access to the Web server. This parameter is case-sensitive. For the characters available for the user name, refer to the following.	1 to 20 one-byte characters (alphanumeric characters and symbols)
Password	Input a password to be used for the authentication at the access to the Web server. This parameter is case-sensitive. For the characters available for the password, refer to the following.	6 to 32 one-byte characters (alphanumeric characters and symbols)
Re-enter Password	Input a password for confirmation. Input the same password as the newly set password. The available characters are the same as those for "Password".	6 to 32 one-byte characters (alphanumeric characters and symbols)

The following table lists the characters that are available for the user name and password.

Туре	Character
One-byte alphanumeric characters (upper-case/ lower-case characters)	0 to 9, A to Z, a to z
Symbols	A one-byte space, !, ", #, \$, %, &, ', (, ), *, +, ,, -, ., /, :, ;, <, =, >, ?, @, [,  ], ^, _, `, {,  , }, ~

### **Reflecting the parameters**

After completing the IP address settings, Web server settings, and account settings, write the parameters to the CPU module from the engineering tool. Changes in parameters are reflected when:

- The CPU module is powered off and on.
- The CPU module is reset.

# 2.2 How to Access Web Server

This section describes how to access the Web server from a Web browser.

#### Restriction (??

Since the communications of the Web server function does not support encrypted communications (SSL communications), do not access the Web server via the Internet. To access the Web server, use the LAN. The communications may be intercepted if the Web server is accessed via the Internet.

ρ-x

#### How to access the Web server

Input the following address in the address bar of a Web browser. http://[IP address of the Web server (CPU module)]/

http://192.168.3.39/

If the own station port number has been changed from the default (80), input the following address. http://[IP address of the Web server (CPU module)]:[Own station port number]/

@ http://192.168.3.39:8080/

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- To access the Web server (CPU module) with a domain name specified, resolve the name on the client side in advance.
- Do not directly specify the URL of each page after logon to access the Web server. Doing so displays an incorrect window, and prevents collection of information from the Web server.
- If the following window appears after the access, follow the messages on the window to write the system Web page file to the CPU module. ( Page 19 Procedure for writing the system Web page).

CPUユニットのファームウェアに対応したシステムWebページが見つかりませんでした。 以下の手順に従って書き込みを行ってください。 1. 三菱電機FAサイトからシステムWebページファイルをダウンロードしてください。 www.mitsubishielectric.co.jp/fa/ 2. ダウンロードしたファイルをフォームに設定し"Execute"ボタンを押下してください。 The F/W version of the CPU module doesn't support this version of system web page. Following to below procedure, write the corresponding system web page file. 1. Please consult your local Mitsubishi representative about that file. 2. Please set the system web page file in a form and click "Execute" button. 未找到CPU模块固件支持的系统网页。 请按照以下步骤执行写入。 1. 关于更新文件, 请向当地三菱电机代理店咨询。 2. 请将获得的文件进行设置后,按"Execute"键。 Browse. Execute Cancel

### Procedure for writing the system Web page

The system Web page must be written to the CPU module when the Web server function is used for the first time with the MELSEC iQ-R series CPU module.

The procedure for writing the system Web page is as follows:

- 1. Consult your local Mitsubishi representative to get the system Web page file.
- **2.** Decompress the system Web page file (zip file).
- **3.** Set the decompressed system Web page file for the input form of the system Web page.
- **4.** Click the [Execute] button.

2.2 How to Access Web Server

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# 2.3 Logon/logoff

### Logging on to the Web server

Accessing the Web server displays the logon (user authentication) window.

To log on to the Web server, input the user name and password which are set with the engineering tool, and click the [Log on] or [Login] button.

For the user name and password settings, refer to the following.

Page 16 Web server account settings

	MELSEC iQR
MELSEC iQ-R CPU Module	
User Name: Password: Log on	
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Point P

- If logon fails 10 times in succession, logon to the account is disabled for a certain time.
- Five minutes of no communications after logon automatically log off the Web server.
- Logon/logoff using different browsers on a single terminal are recognized as logon/logoff using different terminals. Similarly, logon/logoff using a secret window or private window on a single browser are recognized as logon/logoff using different terminals.

### Logging off from the Web server

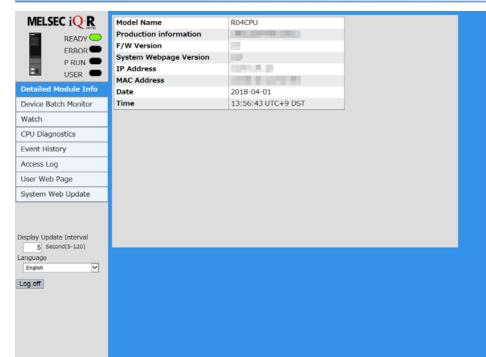
To log off from the Web server, always use the [Log off] or [Logout] button. Do not log off by using other methods such as the  $[\times]$  button on a Web browser.

If an account logs off without using the [Log off] or [Logout] button, the logon information remains for a certain time, and thus the other users may not be able to log on. ( Page 50 TROUBLESHOOTING)

# **3** USING WEB SERVER FUNCTION

Monitoring, diagnostics, or other operations of the CPU module can be performed by switching to each window from the menu. Available functions and display differ depending on the series of the CPU module used. ( Frage 10 List of the Web server function).

### Initial display window for the MELSEC iQ-R series



Item	Description
Detailed Module Info	Information related to the CPU module, such as the model name, production information, firmware version, system Web page version, IP address, and MAC address, is displayed. This window is displayed as the initial display window after logon. ( Page 23 Detailed Module Information (Module Information)).
Device Batch Monitor	Devices and buffer memory areas can be monitored in a batch. (FF Page 24 Device batch monitor).
Watch	Devices and buffer memory areas can be monitored individually for each point. ( $\Join$ Page 28 Watch).
CPU Diagnostics	Existing errors can be checked. (
Event History	The event history retrieved from the CPU module (such as the date and time of occurrence, event code, and detailed information) is displayed. (See Page 32 Event History)
Access Log	The history of access to the Web server, operations performed to the Web server, and the IP address of the access source can be displayed. Thus, the access frequency, each operation, and unauthorized accesses to the Web server can be monitored. (SP Page 34 Access Log).
User Web Page	An original Web page created by users can be displayed on a Web browser by using HTML, JavaScript, and image files. ( Page 41 USING USER WEB PAGE). When "System Web Page Only" is set to "Authority for Window Display" with the engineering tool, this item is not displayed.
System Web Update	Writing the system Web page file to the CPU module updates the system Web page. ( Page 37 System Web Page Update) When "Disable" is set to "Update System Web Page" with the engineering tool, this item is not displayed.
Display Update Interval	Set the interval for refreshing monitor items of each function on the system Web page to the latest information. Set the value between 5 and 120 seconds in increments of 1 second. (Default: 5 seconds) (FP Page 38 Refreshing Cycle of Display)
Language	The display language of the system Web page can be switched to the selected language. (France Page 39 Language switcher).
[Log off] button	Click this button to log off from the system Web page.

### Initial display window for the MELSEC iQ-F series

MELSE	PWR PWR PRUN PAT				
Module In	formation				
Device Batch Monitor					
Watch					
CPU Diagno	CPU Diagnostics				

F/W Version     Image: Constraint of the second secon	F/W Version Booter F/W Version H/W Version III Address Address IIII Address IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Model Name	FX5U-32MT/ES
Booter F/W Version     Image: Comparison of the second secon	Booter F/W Version     Image: Comparison       H/W Version     Image: Comparison       IP Address     Image: Comparison       MAC Address     Image: Comparison       Date     2018-07-13	Serial No.	100.000
H/W Version IP Address	H/W Version IP Address	F/W Version	1. mm
IP Address Address Address Address Address 2018-07-13	IP Address Add	Booter F/W Version	10 C
MAC Address 2018-07-13	MAC Address 2018-07-13	H/W Version	10 C
Date 2018-07-13	Date 2018-07-13	IP Address	100 UNL 8-100
		MAC Address	
	Time 09:45:37	Date	2018-07-13
Time 09:45:37			
		Time	09:45:37
		Time	09:45:37

Display Update Interval 5 sec(5-120) Language English Logout

٠

Event History Access Log User WebPage

Item	Description
Module Information	Information related to the CPU module, such as the model name, product number (production information), firmware version, booter version, hardware version, IP address, and MAC address, is displayed. This window is displayed as the initial display window after logout. (See Page 23 Detailed Module Information (Module Information)).
Device Batch Monitor	Devices and buffer memory areas can be monitored in a batch. (SP Page 24 Device batch monitor).
Watch	Devices and buffer memory areas can be monitored individually for each point. (SP Page 28 Watch).
CPU Diagnostics	Existing errors can be checked. (F Page 30 CPU Diagnostics)
Event History	The event history retrieved from the CPU module (such as the date and time of occurrence, event code, and detailed information) is displayed. (See Page 32 Event History)
Access Log	The history of access to the Web server, operations performed to the Web server, and the IP address of the access source can be displayed. Thus, the access frequency, each operation, and unauthorized accesses to the Web server can be monitored. (See Page 34 Access Log).
User Web Page <sup>*1</sup>	An original Web page created by users can be displayed on a Web browser by using HTML, JavaScript, and image files. ( Page 41 USING USER WEB PAGE). When "System Web Page Only" is set to "Authority for Window Display" with the engineering tool, this item is not displayed.
Display Update Interval	Set the interval for refreshing monitor items of each function on the system Web page to the latest information. Set the value between 5 and 120 seconds in increments of 1 second. (Default: 5 seconds) ( Page 38 Refreshing Cycle of Display)
Language	The language displayed on the system Web page is changed to the selected language. (
[Logout] button	Click this button to log out from the system Web page.

\*1 The FX5U CPU module and FX5UC CPU module support the user Web page.

# **3.1** Detailed Module Information (Module Information)

### iQ-R iQ-F

Information related to the CPU module, such as the model name, production information, firmware version, system Web page version, IP address, and MAC address, is displayed. This window is displayed as the initial display window after logon.

#### **MELSEC iQ-R series** Model Name R04CPU Production information F/W Version System Webpage Version IP Address MAC Address Date 2018-04-01 Time 13:56:43 UTC+9 DST Item Description System Webpage Version The version of the system Web page is displayed. The number before the point indicates the major version, and the number after the point indicates the minor version.

			2	$\odot$
P	0	n	t	

• When the RnENCPU is used, the IP address of the CPU part is displayed in "IP Address".

The time, time zone, and whether daylight saving time is set or not are displayed in "Time". "DST" is displayed only while daylight saving time is set. For setting the time zone, refer to the following.
 MELSEC iQ-R CPU Module User's Manual (Application)

### **MELSEC iQ-F series**

Model Name	FX5U-32MT/ES
Serial No.	
F/W Version	
Booter F/W Version	in the second se
H/W Version	4
IP Address	174 (mil-1, 544)
MAC Address	The Avenue and Avenue and
Date	2018-07-13
Time	09:45:37

# 3.2 Device Monitor

Devices can be monitored, or their values can be changed.

### **Device batch monitor**



### **MELSEC iQ-R series**

Devices and buffer memory areas can be monitored in a batch. The display format differs depending on the specified device.

Device Memory			
Data Type Word[Signed]	Display Format Display Unit Format Order	Next Page	►
Device Memory	Current Value		
D0		0	^
D1		0	
D2		0	
D3		0	
D4		0	
D5		0	F
D6		0	
D7		0	
D8		0	
D9		0	
D10		0	
D11		0	
D12		0	~

### ■Monitoring example

- **1.** Select a device to be monitored from "Device Memory" at the upper section of the window.
- **2.** Enter the start device number.
- **3.** Select a value for "Data Type", "Display Format", "Display Unit Format", and "Order". The drop-down lists of "Data Type", "Display Format", "Display Unit Format", and "Order" differ depending on the device.
- **4.** After selecting them, press **Enter**.

### Point P

The current values of the device areas being monitored are refreshed automatically at the interval specified in "Display Update Interval" on the menu.

### Available devices

#### Device

X, Y, M, L, B, F, SB, V, T, ST, LT, LST, C, LC, D, W, SW, DX, DY, SM, SD, Jn\X<sup>\*1</sup>, Jn\Y<sup>\*1</sup>, Jn\B<sup>\*1</sup>, Jn\SB<sup>\*1</sup>, Jn\W<sup>\*1</sup>, Jn\SW<sup>\*1</sup>, Un\G, U3En\G, U3En\HG, Z, LZ, R, ZR, RD, BL, BLn\S

- \*1 The maximum numbers of link direct device points differ in the system Web page with version 1.02 or later. · Jn\X/Jn\Y: 160K points
  - · Jn\B: 640K points
  - · Jn\W: 2560K points
  - · Jn\SB/Jn\SW: 5120 points

#### ■Current value change

Page 27 Device test

### **MELSEC iQ-F series**

Devices and buffer memory areas can be monitored in a batch. The display format differs depending on the specified device.

Ruffar Mamany	D 0 Intelligent Module No. 1 V Address		
Data Type	Display Format Display Unit Format Order		
16-bit Integer(Signed)	) V DEC V Word V V	No. 1 Day	
◀ Prev Page		Next Page	
Device Memory	Current Value		
D0		0	^
D1		0	
D2		0	
D3		0	
D4		-32768	
D5		0	
D6		-32768	
D7		-32767	
D8		1	
D9		0	Ļ
010		^	Γ.

#### Monitoring example (when monitoring a device)

- 1. Select a device to be monitored from "Device Memory" at the upper section of the window.
- 2. Enter the start device number.
- **3.** Select a value for "Data Type", "Display Format", "Display Unit Format", and "Order". The drop-down lists of "Data Type", "Display Format", "Display Unit Format", and "Order" differ depending on the device.
- **4.** After selecting them, press **Enter**.

#### Monitoring example (when monitoring a buffer memory area)

- 1. Select an intelligent module No. to be monitored from "Buffer Memory" at the upper section of the window.
- 2. Enter the start buffer memory address.
- **3.** Select "Data Type" and "Display Format". The drop-down lists of "Data Type" and "Display Format" differ depending on the buffer memory area.
- **4.** After selecting them, press **Enter**.

### Point P

The current values of the device areas being monitored are refreshed automatically at the interval specified in "Display Update Interval" on the menu.

#### ■Available devices

All the devices can be monitored. However, the index modified devices, bit-specified word devices, or digit-specified bit devices cannot be monitored.

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

#### ■Current value change

Page 27 Device test

### **Device test**

### iQ-R iQ-F

Click the current value of the device and the device test window appears. The current value can be changed in this window.

D0	
Data Type Word[Signed]	~
Input Format DEC	~
Setting Value	0
Set Cano	:el

- **1.** Click the current value of the device area to be changed to display the device test.
- **2.** Specify a value for "Data Type" and "Input Format", and then input a new value in "Setting Value".
- **3.** Click the [Set] button to display the confirmation window for writing the setting value.
- **4.** Click the [Yes] button in the confirmation window for writing the setting value to write the setting value.

Point P

To display the device test, set "Write Device" of the account currently logged on as "Enable" in advance. (

### Watch

### iQ-R iQ-F

Devices and buffer memory areas can be monitored individually for each point. Displayed items and available devices differ depending on the series of the CPU module used.

	Delete Registered Devices	1	Watch3 Watch4	1	atch2	Watch1 Wa
	Current Value	Data Type			Display Format	Device Memory
10		~	Word[Signed]	~	DEC	D0
		~	Bit	~	BIN	X0
655360		~	Double Word[Signed]	~	DEC	D1
		~	Bit	~	BIN	SM800
		~	Bit	~	BIN	мо
10		~	Double Word[Signed]	~	DEC	D7999
		~	Bit	~	BIN	L163
1		Bit 🔽		Y	BIN	YO
10		~	Word[Signed]	~	DEC	Z9
		~		~		
		~		~		
		~		~		
		~		~		
		~		~		
		~		~		
		~		~		
		~		~		

Item	Description	
[Watch] button	The device areas to be monitored can be registered in the "Watch1" to "Watch4" windows <sup>*1</sup> . Use of the "Watch1" to "Watch4" windows <sup>*1</sup> enables device areas to be monitored for different purposes.	
[Delete Registered Devices] button	The device areas registered in the "Watch1" to "Watch4" windows <sup>*1</sup> can be deleted in a batch.	

\*1 For the MELSEC iQ-F series CPU modules, "Watch1" and "Watch2" windows are usable.

#### Monitoring example

- **1.** Enter the device area to be monitored and press Enter. When Enter is pressed, "Display Format", "Data Type", and "Current Value" are entered automatically.
- 2. Select a value for "Display Format" and "Data Type", and press Enter. The drop-down lists of "Display Format" and "Data Type" differ depending on the device.

Point P

- Up to 32 lines can be displayed in one page.
- The current values of the device areas being monitored are refreshed automatically at the interval specified in "Display Update Interval" on the menu.

#### Available devices

#### MELSEC iQ-R series

#### Device

X, Y, M, L, B, F, SB, V, T, ST, LT, LST, C, LC, D, W, SW, DX, DY, SM, SD, Jn\X<sup>\*1</sup>, Jn\Y<sup>\*1</sup>, Jn\B<sup>\*1</sup>, Jn\SB<sup>\*1</sup>, Jn\W<sup>\*1</sup>, Jn\SW<sup>\*1</sup>, Un\G, U3En\G<sup>\*2</sup>, U3En\HG<sup>\*2</sup>, Z, LZ, R, ZR, RD, BL, BLn\S

\*1 The maximum numbers of link direct device points differ in the system Web page with version 1.02 or later.

- · Jn\X/Jn\Y: 160K points
- · Jn\B: 640K points
- · Jn\W: 2560K points
- · Jn\SB/Jn\SW: 5120 points
- \*2 The devices U3En\G and U3En\HG of another CPU module can be specified and the values can be changed in the Web server function, however, the changed values will not be reflected in the CPU module and an error will occur.

#### MELSEC iQ-F series

All the devices can be monitored. However, the index modified devices, bit-specified word devices, or digit-specified bit devices cannot be monitored.

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

### Current value change

When the current value of a device area is clicked, the device test window appears and the value can be changed. (EP Page 27 Device test).

When the device test is displayed from a "Watch" window, the current value at the timing when the device test appears is displayed.

# **3.3** CPU Diagnostics

iQ-R iQ-F

Existing errors can be checked.

### **MELSEC iQ-R series**

Up to 16 errors are displayed for the MELSEC iQ-R series CPU module.

No.	Occurrence Date	Status	Error Code	Overview	
1	2018-03-06 13:02:30	A Moderate	2241	Parameter error (module) Detail	]
					ľ
					~

Click the [Detail] button to check the detailed information of the error.

The following table lists the overview of the detailed information window for errors.

Item	Description	
Overview The overview (name) of the error is displayed.		
Detailed Information	Up to three detailed information sets corresponding to the error code selected are displayed. "—" is displayed when no information to display exists.	
Cause	The error details and error cause are displayed.	

Point P

- The data in the CPU diagnostics is refreshed automatically at the interval specified in "Display Update Interval" on the menu.
- Since the date and time of error occurrence is based on the time set in the CPU module, it may be different from the time set in the personal computer used.

### **MELSEC iQ-F series**

Up to 16 errors are displayed for the MELSEC iQ-F series CPU modules.

The detailed information of the error can be checked in "Program location" and "Module position". For details on the error codes, refer to the following.

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

No.	Occurrence Date	Error status	Error code	Outline	]
1	2017-09-08 14:45:45	A Moderate error	3080	ADP Hardware error	^
					~
Prog	gram location	Mo	dule positio	n	
-		-			

Item	Description
Program location <sup>*1</sup>	The sequence step number (decimal) and the name of the file where an error has occurred are displayed.
Module position <sup>*1</sup>	Information on the location of the module where the error has occurred is displayed.

\*1 When the error has no detailed information, such as sequence step number, file name, and module location, "—" is displayed. If no error occurs, these fields are blank.

Point P

The data in the CPU diagnostics is refreshed automatically at the interval specified in "Display Update Interval" on the menu.

# 3.4 Event History

### iQ-R iQ-F

• For the FX5U CPU module and FX5UC CPU module, the ones with the firmware version 1.100 or later support this function.

The event history retrieved from the CPU module (such as the date and time of occurrence, event code, and detailed information) is displayed. Up to 32 records are displayed in one page.

### **MELSEC iQ-R series**

The event history cannot be cleared in the Web server function. Clear it with the engineering tool.

	Refresh				Last Update Date	2018-03-06 13:05:34
Pre	ev Page					Next Page
No.	Occurrence Date	Event Type	Status	Event Code	Overview	
00001	2018-03-06 13:03:14	System	<ol> <li>Information</li> </ol>	00100	Link-up	Detail
00002	2018-03-06 13:02:30	System	▲ Moderate	02241	Parameter error (module)	Detail
00003	2018-03-06 13:02:26	Operation	<ol> <li>Infomation</li> </ol>	20300	SD memory card enabled	Detail
00004	2018-03-06 13:02:25	System	(i) Information	00400	Power-on and reset	Detail
00005	2018-03-06 12:50:18	System	(i) Information	00100	Link-up	Detail
00006	2018-03-06 12:50:14	System	A Moderate	02241	Parameter error (module)	Detail
00007	2018-03-06 12:50:11	Operation	(i) Information	20300	SD memory card enabled	Detail

Item	Description
[Prev Page] button, [Next Page] button	The 32 records before or after the records displayed in the current page are displayed.
[Refresh] button	The event history is retrieved from the CPU module and the window is refreshed. The latest 32 registered events are displayed in the first page after the refresh. The event history is retrieved from the save destination of the event history selected in "Event History Setting" of the engineering tool.
Last Update Date	The time retrieved from the CPU module is displayed when the window is switched from another window to the "Event History" window or when the [Refresh] button is clicked for the last time. When the event history has not been refreshed, it will be blank. The display format is as follows: YYYY-MM-DD hh: mm: ss (YYYY: year, MM: month, DD: day, hh: hour, mm: minute, ss: second)

Click the [Detail] button to display the detailed information of the event. The following table lists the overview of the detailed information window.

Item	Description
Detailed Information	Up to three detailed information sets corresponding to the event code selected are displayed. "" is displayed when no information to display exists.
Cause	The event description is displayed.

Point P

- If any event was lost, it is displayed as "\*HST LOSS\*".
- The Web server function does not cover the even history of other modules than the CPU module. To check the event history of other modules, check it with the engineering tool.

### MELSEC iQ-F series

<b>∢</b> Pr	ev Page						Next Page	►
No.	Occurrence Date	Event Type	Stat	us	Event Code	OutLine		
1	2018-07-13 09:49:47	System	0	Warning	00800	Link-down		Î
	2018-07-13 09:49:39	Operation	0	Warning	2 <b>A2</b> 01	Device/lat	bel zero clear	
3	2018-07-13 09:47:37	System	<b></b>	Moderate error	03080	ADP Hardv	ware error	
4	2018-07-13 09:16:22	System	0	Warning	00800	Link-down		
Program location			M	Module position			Operation Initiator Information	
Sequence step No. :- File name :-			-				Connection Port:Ethernet IPAddress :192.168.0.100	

Item	Description		
[Prev Page] button, [Next Page] button	The 32 records before or after the records displayed in the current page are displayed.		
[Refresh] button	The event history is retrieved from the CPU module and the window is refreshed. The latest 32 registered events are displayed in the first page after the refresh. The event history is retrieved from the save destination of the event history selected in "Event History Setting" of the engineering tool.		
Last update date	The time retrieved from the CPU module is displayed when the window is switched from another window to the "Event History" window or when the [Refresh] button is clicked for the last time. When the event history has not been refreshed, it will be blank. The display format is as follows: YYYY-MM-DD hh: mm: ss (YYYY: year, MM: month, DD: day, hh: hour, mm: minute, ss: second)		

The following table lists the detailed information.

Item Description	
Program location	The sequence step number (decimal) and the name of the file where an error has occurred are displayed.
Module position <sup>*1</sup>	Information on the location of the module where the error has occurred is displayed.
Operation Initiator Information	The connection port and the IP address of the CPU module are displayed.

\*1 When the error has no detailed information, such as sequence step number, file name, and module location, "-" is displayed. If no error occurs, these fields are blank.

### Point P

- If an event was lost, it is displayed as "\*HST LOSS\*".
- The Web server function does not cover the even history of other modules than the CPU module. To check the event history of other modules, check it with the engineering tool.

### Refresh timing of the event history

"Event History" is not refreshed at the interval specified in "Display Update Interval" on the menu.

"Event History" is refreshed when:

- "Event History" is selected on the menu.
- The [Refresh] button is clicked.

# 3.5 Access Log

### iQ-R iQ-F

The history of access to the Web server, operations performed to the Web server, and the IP address of the access source can be displayed. Thus, the access frequency, each operation, and unauthorized accesses to the Web server can be monitored. Displayed items and operations in the access log differ depending on the series of the CPU module used.

### **MELSEC iQ-R series**

#### Restriction ("">

Updating the major version of the system Web page clears the access log. ( Figure 27 System Web Page Update)

-					_
No.	Access Date	User name	Operation	Destination IP Address	
3	2018-01-30 13:36:58	USER	HTTP Logoff		^
2	2018-01-30 13:36:36	USER	HTTP Logon succeeded		
1	2018-01-30 13:35:18	USER	Device Write D4:H0		
					1
					~

Item	Description
No.	Records are listed with the newest access date at the top. Up to 128 records are displayed.
User name	The user name who has performed the operation is displayed. ( F Page 35 Operations displayed in the access log). When a logon fails, the user name which is input in the logon operation is displayed.
Operation	The operation performed by a user is displayed. (
Destination IP Address The IP address (decimal) of a user is displayed.	

#### ■Operations displayed in the access log

The following table lists the operations displayed in the access log with the MELSEC iQ-R series CPU module.

Operation	Registration timing	Information to be added
HTTP Logon succeeded	When a user logs on	-
HTTP Logon failure	When a user logs on	-
HTTP Logoff	When a user logs off	-
Device Write	When a value is written to a device area	Target device area: Set value
System Webpage Update Succeeded	When writing the system Web page (minor version) succeeds	Version information of the system Web pages before and after the write
System Webpage Update Failed	When writing the system Web page (minor version) fails	-

### Point P

- The access log can store up to 128 records. When the number of records exceeds 128, the access log is cleared in the order from the oldest one.
- The access log of the MELSEC iQ-R series CPU module is retained by using the battery even while the CPU module is powered off. When no battery is used, the access log can be retained by using the batteryless option cassette. The R00CPU, R01CPU, and R02CPU can retain the access log without using the battery or the battery-less option cassette.
- Logoff with an operation other than clicking the [Log off] button such as powering off the CPU module and closing the browser is not stored in the access log.

#### **MELSEC iQ-F series**

_							_
No.	Access Date	User name	Operation	Destination IP Address	Connection No.	Protocol	
5	2017-08-28 18:21:02	****	Device write: D6:H8000	***`***`***`***		нттр	^
4	2017-08-28 18:20:51	******	Device write: D4:H8000	***.***.***.***		нттр	
3	2017-08-28 18:13:45	****	HTTP login	***.***.***.***		нттр	
2	2017-08-28 18:12:09	****	HTTP logout	***,***,***,***		нттр	
1	2017-08-28 18:10:35	*****	HTTP login	*****		нттр	
							~
·	1	1	1	1			

Item	Description	
No.	Records are listed with the newest access date at the top. Up to 128 records are displayed.	
User name	The user name who has performed the operation is displayed. (SF Page 36 Operations displayed in the access log). When a login fails, the user name that has been input for login is displayed.	
Operation	The operation performed by a user is displayed. (FP Page 36 Operations displayed in the access log).	
Destination IP Address	The IP address (decimal) of a user is displayed.	
Connection No.	The connection number is displayed.	
Protocol	The protocol is displayed.	

#### Operations displayed in the access log

The following table lists the operations displayed in the access log with the MELSEC iQ-F series CPU modules.

Operation Registration timing In		Information to be added
HTTP login When a user logs in -		-
HTTP login failure	When a user logs in	-
HTTP logout	When a user logs out	-
Device write	When a value is written to a device area	Target device area: Set value

### Point P

- The access log can store up to 128 records. When the number of records exceeds 128, the access log is cleared in the order from the oldest one.
- The access log of the MELSEC iQ-F series CPU module is not retained while the CPU module power is off. For the FX5U CPU module and FX5UC CPU module, use the optional battery, FX3U-32BL, to retain the access log.
- Logout by an operation other than clicking the [Logout] button, such as powering off the CPU module and closing the browser, is not recorded in the access log.

# 3.6 User Web Page

#### iQ-R iQ-F

• For the FX5U CPU module and FX5UC CPU module, the ones with the firmware version 1.100 or later support this function.

An original Web page can be created by users.

To use the user Web page, write the created Web page to the SD memory card. (SP Page 41 USING USER WEB PAGE)

Restriction (")

MELSEC iQ-R series

 An SD memory card is required to display a user Web page. Therefore, the R00CPU does not support the user Web page.

MELSEC iQ-F series

 In MELSEC iQ-F series CPU modules, the FX5U CPU module and FX5UC CPU module support the user Web page.

## **3.7** System Web Page Update



This function can be used with the MELSEC iQ-R series CPU modules.

Consult your local Mitsubishi representative to get the system Web page file (RWebFile\_XX\_YY.HVF).

Writing the system Web page file to the CPU module updates the system Web page.

Depending on the major version of the system Web page, updating the firmware version of the CPU module is required. (

File name of the system Web page	String	Description
RWebFile_XX_YY.HVF	RWebFile	Model name
	XX	Major version
	YY	Minor version
	HVF (Httpserver Versionup File)	Extension

The version of the system Web page and the firmware version of the CPU module can be checked in the "Detailed Module Info" window. ( Page 23 Detailed Module Information (Module Information))

Point P

Before updating the minor version, set "Update System Web Page" as "Enable" in the account setting of the engineering tool.

# **3.8** Refreshing Cycle of Display



Set the interval for refreshing monitor items of each function on the system Web page to the latest information.

Display Update Interval 5 Second(5-120)			
La	anguag	e	
	English	I	~
L	og off	]	

#### Setting procedure

The setting procedure is as follows:

- 1. Enter a value in "Display Update Interval".
- 2. Press Enter. Pressing Enter refreshes the window and starts to refresh the display at the interval entered.

Without pressing Interiment, the setting is not reflected, and therefore the display is refreshed at the interval before the change.

#### Items refreshed at the interval specified in "Display Update Interval"

The items refreshed at the interval specified in Display Update Interval" are as follows:

- LED indication
- Device Batch Monitor
- Watch
- CPU Diagnostics
- Access Log (excluding "HTTP Logon succeeded")

The event history is not refreshed at the interval specified in "Display Update Interval". (SP Page 33 Refresh timing of the event history)

Point P

- When another Ethernet communication or other processing whose communication load is high is being performed at the same time, the refreshing cycle may be longer than the set value.
- If the response is not received within the interval set in "Display Update Interval" due to high communication processing load in the CPU module or a problem in the communication path, information on the window is not refreshed. (

# 3.9 Language switcher

#### iQ-R iQ-F

The display language of the system Web page can be switched to the selected language.

Display Update Interval 5 Second(5-120) Language English	
Series	Language
MELSEC iQ-R	Japanese     English     Chinese (Simplified)
MELSEC iQ-F	Japanese     English     Chinese (Simplified) <sup>*1</sup>

\*1 Some firmware versions of the CPU module are not supported. (EP Page 11 Specifications of Web Server Function)

#### iQ-R iQ-F

• For the FX5U CPU module and FX5UC CPU module, the ones with the firmware version 1.100 or later support this function.

An original Web page created by users can be displayed on a Web browser by using HTML, JavaScript, and image files.

#### Restriction (")

MELSEC iQ-R series

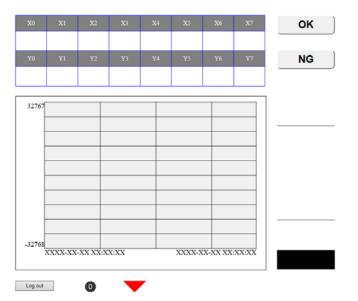
• An SD memory card is required to display a user Web page. Therefore, the R00CPU does not support the user Web page.

MELSEC iQ-F series

 In MELSEC iQ-F series CPU modules, the FX5U CPU module and FX5UC CPU module support the user Web page.

#### Display example of a user Web page

The following figure shows a display example of a user Web page.



#### Procedure

The procedure for using the user Web page is as follows:

- **1.** Consult your local Mitsubishi representative to get the library (zip file) of the user Web page. ( Page 42 Getting Library of User Web Page)
- 2. Configure CPU module parameters with the engineering tool. ( Page 14 Parameter Settings of CPU Module)
- 3. Power off and on or reset the CPU module to reflect the parameter settings. (F Page 17 Reflecting the parameters).
- 4. Decompress the library (zip file) of user Web page.
- **5.** Edit the HTML file (index.html) of the user Web page in the USER folder of the library of the user Web page. ( Page 43 Editing User Web Page)
- 6. Write the user Web page to the SD memory card. (E Page 46 Storing User Web Page in SD Memory Card)
- 7. Access the user Web page. ( Page 48 Accessing User Web Page)
- **8.** Log off from the user Web page.

Point P

Before using the Web server function, enable JavaScript and cookies in settings of a Web browser.

## 4.1 Getting Library of User Web Page

Consult your local Mitsubishi representative to get the library of the user Web page.

Library of the user Web page		
By editing the downloaded user Web page, users can create their original Web pages.		
Description	Compressed file name	
User Web page of the Web server function for the MELSEC iQ-R series	cpu-user_web_r_vXXX.zip (vXXX: Version)	
User Web page of the Web server function for the MELSEC iQ-F series	cpu-user_web_f_vXXXX.zip (vXXXX: Version)	

#### Restriction ("

The MELSEC iQ-R series CPU modules have restrictions on the combination of the user Web page version and the firmware version of the CPU modules. ( F Page 55 User Web Page Version)

## 4.2 Parameter Settings of CPU Module

For the parameter settings of the CPU module, refer to the following.

## Point P

Before using the user Web page, set "Authority for Window Display" as "Permit Both Displays" or "User Web Page Only" in the account setting of the engineering tool.

## 4.3 Editing User Web Page

Edit the user Web page. Edit the HTML file (index.html) of the user Web page in the library of the user Web page to change the layout or to add or delete the objects.

#### Available devices

#### Restriction

The number of device areas to be specified in one user Web page should be up to 32 points regardless of the device type. If the number exceeds 32 points, an error may occur.

#### ■MELSEC iQ-R series

#### Device

X, Y, M, L, B, F, SB, V, T, ST, LT, LST, C, LC, D, W, SW, DX, DY, SM, SD, Jn\X<sup>\*1</sup>, Jn\Y<sup>\*1</sup>, Jn\B<sup>\*1</sup>, Jn\SB<sup>\*1</sup>, Jn\W<sup>\*1</sup>, Jn\SW<sup>\*1</sup>, Un\G, U3En\G<sup>\*2</sup>, U3En\HG<sup>\*2</sup>, Z, LZ, R, ZR, RD, BL, BLn\S

- \*1 The maximum numbers of link direct device points differ in the user Web page with version 1.01 or later.
  - · Jn\X/Jn\Y: 160K points
  - · Jn\B: 640K points
  - · Jn\W: 2560K points
  - · Jn\SB/Jn\SW: 5120 points
- \*2 The devices U3En\G and U3En\HG of another CPU module can be specified and the values can be changed in the Web server function, however, the changed values will not be reflected in the CPU module and an error will occur.

#### ■MELSEC iQ-F series

All the devices except the index modified devices, bit-specified word devices, and digit-specified bit devices are available. MELSEC iQ-F FX5 User's Manual (Ethernet Communication)

#### JavaScript objects

JavaScript objects enable device data to be read or written easily on the user Web page.

To use JavaScript objects, the library of JavaScript objects (RUserWebLib.js/FUserWebLib.js) is required. The library of JavaScript objects is included in the library of the user Web page. (EP Page 42 Getting Library of User Web Page) The following table lists the JavaScript objects that can be used in the user Web page.

Object name (function name)	Description
Data block (WSDatblk)	Displays the specified device data in a table format.
Level display (WSLevel)	Displays what percentage the device value accounts for of the whole (the range between the upper and lower limit values).
Figure display (WSFigure)	Displays the specified figure when the device value reaches the set value.
Image display (WSPicture)	Displays the specified image file when the device value reaches the set value.
Historical graph (WSHstgrp)	Displays the device data in a time-series line graph.
Write button (WSWrtBtn)	Writes the specified value to the specified device area.
Logoff/Logout button (WSLogoutBtn)	Performs the logoff operation.

For details on the JavaScript objects, refer to the following.

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

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

4

#### ■Application example for JavaScript objects (index.html)

The following shows a sample for the default page (index.html) of the user Web page. In the following sample, objects of the data block (WSDatblk) and the logoff button (WSLogoutBtn) are used.

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
       <head>
               <meta charset="UTF-8">
               <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
               <title>Sample</title>
               <link href="./css/UserWebStyle.css" rel="stylesheet" media="all" />
               <script src="./UserWebLib.js"></script>
               <script>
                       var updateInterval = 5;
                       var dspLanguage = 'ja-JP';
                       temp = [];
                       for(var i = 0; i < 8; i++){
                              temp.push({
                                              'X' + i,
                                      dsp:
                                      name: 'X' + i,
base: 'B',
                                      format: 6
                              });
                       }
                       for(var i = 0; i < 8; i++){
                              temp.push({
                                              'Y' + i,
                                      dsp:
                                      name: 'Y' + i,
                                      base: 'B',
                                      format: 6
                              });
                       }
                       dataBlockParam = {
                              dev:
                                                      temp.
                              direction:
                                                      1,
                              blkSize:
                                                      8,
                              devNamDisp:
                                                      1,
                              devNamCol:
                                                      'white',
                              devNamBkCol: '#808080',
                              devNamWidth: 100,
                              devNamHeight: 40,
                                                      'blue',
                              devValCol:
                              devValBkCol:
                                             'white',
                              devValWidth: 80,
                              devValHeight: 50,
                                                      'blue',
                              InCol:
                              xPos:
                                                      20,
                              yPos:
                                                      40
                       }
                       WSDatblk(dataBlockParam);
//-----
                                 logoutBtnParam = {
                              xPos:
                                              20.
                              yPos:
                                              250,
                              btnHeight:
                                              26,
                              btnWidth:
                                              100,
                              btnTxt:
                                              'logout'
                       }
                       WSLogoutBtn(logoutBtnParam);
11-----
              </script>
       </head>
       <body>
       </body>
</html>
```



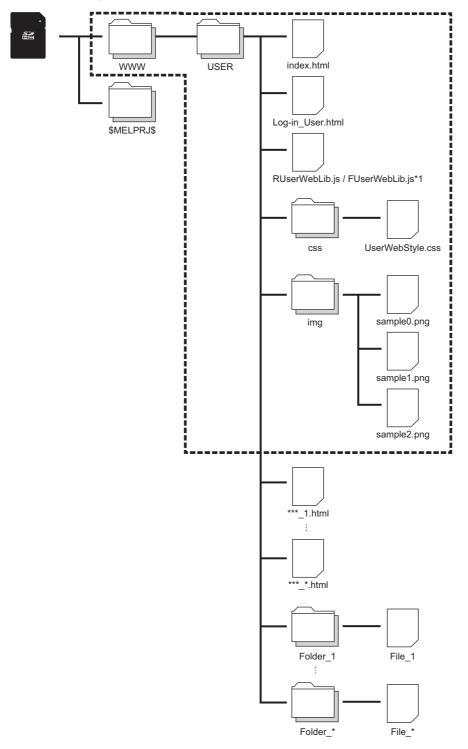
- Set the automatic refreshing cycle (updateInterval) of the user Web page to five seconds or more. If the set value is less than five seconds, the refreshing cycle may be delayed, or the current value may not be acquired correctly.
- When editing an HTML file of the user Web page, do not delete the logoff button (WSLogoutBtn).
- To log off from the user Web page, always use the [Log off] or [Logout] button. Do not log off by using other methods such as the [×] button on a Web browser. If an account logs off without using the [Log off] or [Logout] button, the logon information remains for a certain time, and thus the other users may not be able to log on. (SP Page 50 TROUBLESHOOTING).

## 4.4 Storing User Web Page in SD Memory Card

Store the WWW folder in the library of the user Web page to the root directory of the SD memory card.

#### Folder structure of the SD memory card

The folders and files surrounded by the dotted line in the following folder structure are provided in the library of the user Web page. Do not change the structure of the folders and files in the dotted line. If a file name or the folder structure is different from the following, an error occurs at access.



- \*1 The folder name varies depending on the library of the user Web page
  - $\cdot \ cpu-user\_web\_r\_vXXX.zip: RUserWebLib.js$
  - $\cdot \ cpu-user\_web\_f\_vXXXX.zip: FUserWebLib.js$

Set the file name of the file to be stored in the SD memory card by using the ASCII code within 32 characters including the extension. For example, Menu\_ja-JP.html is counted as 15 characters. ( Page 50 TROUBLESHOOTING)

Folder/file name	Description	Necessity for be	Necessity for being stored	
		MELSEC iQ-R	MELSEC iQ-F	
WWW	A folder where the USER folder is stored	Necessary	Necessary	
USER	A folder for the user Web page	Necessary	Necessary	
index.html	The default page of the user Web page	Necessary	Necessary	
Log-in_User.html	A sample of the user logon page	Necessary	Necessary	
RUserWebLib.js	The library of JavaScript objects for the user Web page	Necessary	—	
FUserWebLib.js		—	Necessary	
CSS	A folder for the style sheet	Optional	Optional	
UserWebStyle.css	The default style sheet for the user Web page	Optional	Optional	
img	An image folder for the user Web page	Optional	Optional	
sample0.png	A sample image file for the user Web page	Optional	Optional	
sample1.png	A sample image file for the user Web page	Optional	Optional	
sample2.png	A sample image file for the user Web page	Optional	Optional	
***_1.html	An optional page <sup>*2*3</sup>	Optional	Optional	
Folder_1	An optional folder for images <sup>*3</sup>	Optional	Optional	
File_1	An optional image file <sup>*3</sup>	Optional	Optional	

\*2 The extension for the top page of the user Web page is fixed to .html.

\*3 Store the created files or folders in the USER folder.

#### Available files

The following table lists the file types that are available as objects of the user Web page.

File	Extension
HTML	.html
	.htm
JavaScript	.js
CSS	.CSS
GIF image	.gif
PNG image	.png
JPG/JPEG image	.jpg (.jpeg)

# 4.5 Accessing User Web Page

Access the user Web page from the Web browser.

#### Restriction

Since the communications of the Web server function does not support encrypted communications (SSL communications), do not access the Web server via the Internet. To access the Web server, use the LAN. The communications may be intercepted if the Web server is accessed via the Internet.

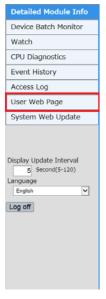
#### How to access the user Web page

Access the user Web page with one of the following methods.

When a MELSEC iQ-R series CPU module is used, writing the system Web page is required even when only the user Web page is used. ( Page 19 Procedure for writing the system Web page)

#### Access from the system Web page

Click "User Web Page" on the system Web page to access the user Web page.



#### ■Access by inputting the URL directly in the address bar

Input the following address in the address bar of a Web browser. http://[IP address of the Web server (CPU module)]/USER/[Default page name]

Ø +ttp://192.168.3.39/USER/index.html

If the own station port number has been changed from the default (80), input the following address. http://[IP address of the Web server (CPU module)]:[Own station port number]/USER/[Default page name]

#### Point P

Do not directly specify the URL of each page after logon to access the Web server. Doing so displays an incorrect window, and prevents collection of information from the Web server.

#### Direct access to the user Web page after logon

Set "Initial Display Window" to "User Web Page" in the account setting to display the user Web page after logging on to the Web server.

#### Logoff from the user Web page

When the user logs off from the user Web page, the user logon page appears. If no user logon page exists, an error message appears. To log off from the user Web page, always use the [Log off] or [Logout] button. Do not log off by using other methods such as the [ $\times$ ] button on a Web browser. If an account logs off without using the [Log off] or [Logout] button, the logon information remains for a certain time, and thus the other users may not be able to log on. ( $\square$  Page 50 TROUBLESHOOTING).

# **5** TROUBLESHOOTING

If an abnormal operation occurs while the Web server function is used, refer to the following table and take actions.

server function, and the Work be parameters.           The URL (IP address) is incorrect.         Check that the IP address in the URL matches the CPU module if address in the URL matches the incorrect.           The port number specified in the URL is specified as "https://".         Check that the IP address in the URL matches the own station port number in the URL matches the incorrect.           The DRU is specified as "https://".         Specify the URL as "http://".           The CPU module subner mask is incorrect.         Check that the Ethernet cable is correctly connected incorrect.           The CPU module subner mask is incorrect.         Check that the CPU module subner mask is correct incorrect.           The CPU module subner mask is incorrect.         Check the LAN settings. and disable the proxy is set.           The CPU module subner mask is incorrect.         Check the CPU module subner mask is correct incorrect.           The IAN is set to use a proxy server.         Check the CPU module subner mask is correct incorrect.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the inserver.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the address in the optimum of the account that has logged on interrept. Addig on the page.           The following is displayed.         Chick is requested by a method other than a cocount that has display and port which the anstored in inservet on the CPU module parametery. and display and port which was account that has the d	Description	Cause	Action
setup of the engineering tool and then withe the parameters, Cr., update the software version of the engineering tool to a version of the engineering tool tool version of the updates.           The URL (IP address) is incorrect.         Check that the IP address in the URL matches the OPU module IP address.           The port number specified in the URL is incorrect.         Check that the IP address is incorrectly concrect.           The DFU module software mask is incorrect.         Check that the OPU module is correctly connected incorrect.           The CPU module software mask is incorrect.         Check that the CPU module side, and check that the CPU module software mask is correct.           The CPU module software mask is incorrect.         Check that the CPU module side, and check that the CPU module software mask is correct.           The Iollowing is displayed.         Check the update software mask is incorrect.         Check the URL software the provide software mask is correct.           The Iollowing is displayed.         Aridder is specified with a URL or a resource reference from the HTML of the user Wab page.         Check the URL software the module spraneterity, and togo the account (setting is correct.           The following is displayed.         Check the URL of the user Web page.         Check the URL of the user Web page.           The Iollowing is displayed.         Check the URL of the user Web page.         Check the URL hole than a DD memory card whee the inducthani and	The Web page is not displayed.		
Public Section 1         CPU module IP address.           The port number specified in the URL is incorrect.         Check that the port number in the CPU module.           The URL is specified as "thps://.         Specify the URL as "thp://.           The EHEment cable is disconnected.         Check that the EHement cable is correctly connected.           The CPU module subnet mask is incorrect.         Check that the EHement cable is correctly connected.           The CPU module default gateway is incorrect.         Check that the CPU module default gateway is etc.           The IAN is set to use a proxy server.         Check the LAN settings, and disable the proxy server.           The IAN is set to use a proxy server.         Check the LAN settings, and disable the proxy server.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the user Web page.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the user Web page.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the user Web page.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the user Web page.           The following is displayed.         Afolder is specified with a URL or a resource reference from the HTML of the user Web page.           The following is displayed.         Check the display authority o		The Web server function is disabled.	settings of the engineering tool and then write the parameters. Or, update the software version of the engineering tool to a version that supports the Web server function, enable the Web server function, and
Increase         own station port number of the CPU module           The URL is specified as "https///.         Specify the URL is short of the CPU module subnet mask is correct           The CPU module subnet mask is incorrect.         Check that the CPU module subnet mask is correct of set.           The CPU module default gateway is incorrect.         Check that the CPU module subnet mask is correct of set.           The CPU module default gateway is set.         Check the request path length (path length after http:///CPU module default gateway is set.           The following is displayed.         The request path length (path length after http://CPU module default gateway is set.           The following is displayed.         The request path length (path length after http://CPU module default gateway is set.           The following is displayed.         The request path length (path length after http://CPU module default gateway is set.           The following is displayed.         The account does not have the display authority of the account (setting i anterpoted display a page for which the display authority of the account (setting i authority.           The following is displayed.         The URL (folder path) is incorrect.         Check that the URL (folder path) is incorrect.           Ald Not Found         The URL (folder path) is incorrect.         Check that the URL (folder path) is incorrect.           Ald Not Found         CorentType is not implemented in the resolution is in execution, operate the windor atter the resolution is in execution, operate the windor atter t		The URL (IP address) is incorrect.	
The Ethernet cable is disconnected.         Check that the Ethernet cable is correctly connected.           The CPU module subnet mask is incorrect.         Check that the CPU module subnet mask is correct incorrect.           The CPU module default gateway is incorrect.         Check the router on the CPU module subnet mask is correct incorrect.           The CPU module default gateway is incorrect.         Check the router on the CPU module subnet mask is correct incorrect.           00 Bad Request         The request path length (path length after thtp://(Pathersy) is longer than 256 characters.         Check the URL or the resource reference from the TML of the user Web page.           The following is displayed.         A folder is specified with a URL or a resource reference from the tTML of the user Web page.         Check the URL or the resource reference from the table is count that has the display authority of the account (setting i account the os not have the display authority of the page.           The following is displayed.         The URL (folder path) is incorrect.         Check that the URL (folder path) is correct.           Apol No Found         The URL (folder path) is incorrect.         Check if a requested by a method other than POST on the user Web page.           The following is displayed.         CGI is requested by a method other than POST on the user Web page.         Check the URL (rolder path) is correct.           Apol No Found         CorrentType is not implemented in the restoration is in execution, operate the window after the restoration processing is finished.			Check that the port number in the URL matches the own station port number of the CPU module.
The CPU module subnet mask is incorrect.         Check that the CPU module subnet mask is correct set.           The CPU module default gateway is incorrect.         Check the router on the CPU module side, and check that the CPU module default gateway is set.           The LN is set to use a proxy server.         Check the LN settings, and disable the proxy server.           The following is displayed.         The request path length (path length fath the proxy server.         Check the LN settings, and disable the proxy server.           The following is displayed.         A lokier is specified with a URL or a resource reference from the HTML of the user Web page.         Check the URL or the resource reference from the HTML of the user Web page.           The account does not have the display age for which the account does not have the display age for which the account does not have the display age for which the memory card where the user Web page.         Check that the URL (folder path) is incorrect.           The following is displayed.         CGI is requested by a method other than POST on the user Web page.         Check that the URL (folder path) is correct.           The following is displayed.         CGI is requested by a method other than POST on the user Web page.         Check that the curk that and Log- inUser. The index. That		The URL is specified as "https://".	Specify the URL as "http://".
incorrect.         set.           The CPU module default gateway is incorrect.         Check the router on the CPU module default gateway is serve.         Check the router on the CPU module default gateway is serve.           The IAN is set to use a proxy server.         Check the LAN settings, and disable the proxy serve.           The following is displayed.         The request path length (path length and the following is displayed.         Check the URL or the resource reference from the HTML of the user Web page.           The account that has logged on atompted to display a page for which account that has logged on atompted to display a page for which the account that has logged on atompted to display a page for which the account that has logged on atompted to display a page for which the account that has the display authority of the account (setting is atompted to display apage for which the account that has the display authority of the page.           The following is displayed.         The URL (folder path) is incorrect.         Check that display authority of the account (setting i atompted to display a page for which account that has the display authority of the page.           The following is displayed.         Coll is requested by a method other than post on the user Web page.         Check that the URL (folder path) is incorrect.           The following is displayed.         ContentType rison supported by the restoration processing is finished.         Check that the recommended browser is used.           The following is displayed.         Folder Type rison supported by the post on the user Web page.         Check that the recommended browser i		The Ethernet cable is disconnected.	Check that the Ethernet cable is correctly connected
incorrect.         that the CPU module default gateway is set.           The LAN is set to use a proxy server.         Check the LAN settings, and disable the proxy server.           The following is displayed.         The request path length (path length after thtp://IP address)) is longer than 256 characters.         Check the LAN settings, and disable the proxy server.           The following is displayed.         A folder is specified with a URL or a resource reference from the HTML of the user Web page.         Check the URL or the resource reference from the HTML of the user Web page.           The account that has logged on attempted to display a page for which the account (setting i authority.         Check the display authority of the account (setting i account that has the display authority of the pace.           The following is displayed.         The URL (folder path) is incorrect.         Check that the URL (folder path) is correct.           404 Not Found         CGI is requested by a method other than POST not he user Web page.         Check that an SD memory and where the index-hird and Log-in in_User. Thin a secoultion, operate the window after the restoration processing is finished.           The following is displayed.         ContentType is not implemented that the recommended browser is used.           Mot Allowed         ContentType is not implemented in the the recommended browser is used.           MTTP Version not supported         JavaScript is disabled.         Check that the therecommended browser is used.           A message indicating that JavaScript is disabled is displa			Check that the CPU module subnet mask is correctly set.
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displayed.       A message indicating that the device number is out of       The device number is out of range.       Check that the device number is within the specified	Characters are corrupted.	-	Check the Web browser character encoding setting.
		The device name is incorrect.	Check that the device name is correct.
		The device number is out of range.	Check that the device number is within the specified range.

Description	Cause	Action						
A message indicating that the setting value for the device is out of range is displayed.	The setting value for the device is out of range.	Check that the device setting value is within the specified range.						
A login is denied and the following message is displayed. The user name or password is incorrect. Please check the user name or password and try again.	The user name or password is incorrect.	Check the user name or password.						
The following is displayed. Can't open page on Web site. HTTP 500 Internal server error	The system Web page file in the Web server is corrupt. Or, it is not present.	Upload the system Web page file again. If the pag still does not open, please consult your local Mitsubishi representative.						
A message indicating that the request source is incorrect is displayed.	The HTTP request received by the Web server includes no referer header field or the one which is illegal.	Check the settings of the browser or firewall and ensure that the referer is correctly sent.						
Images or figure display objects are not displayed on the user Web page.	The file name written in the HTML file of the user Web page is incorrect. An unsupported file format is used. The file size is too large. The description of HTML or JavaScript of the user Web page is incorrect. The parameter settings of the user Web page objects are incorrect.	Check that the file name written in the HTML file of the user Web page matches the name of the file stored in the SD memory card. Check that the format of the image file is the same a that described in the following. (EP Page 47 Available files). Check the file size. Check the description of HTML and JavaScript of th user Web page. Check the parameter settings of the user Web page objects.						
Items are not refreshed at "Display Update Interval".	The communication load of the CPU module is high.	Reduce the communication load of the CPU module						
	The line status is unstable.	Check the line status (such as PING). To perform a PING test from the engineering tool, refer to the following. MELSEC iQ-R Ethernet User's Manual (Application) MELSEC iQ-F FX5 User's Manual (Ethernet Communication) The PING test can also be performed from the Microsoft <sup>®</sup> Windows <sup>®</sup> command prompt.						
	The CPU module has been powered off.	Power on the CPU module.						

# 6 PRECAUTIONS

This chapter describes precautions.

#### Response performance of Web pages

The response performance of Web pages varies according to the following causes.

- Load factor of an Ethernet line (Congestion degree of a line)
- Number of connections that are used simultaneously (Refresh processing of other connections)

#### Response performance of CPU modules

When a new HTTP client tries to connect the CPU module while the CPU module is connected by the maximum number of HTTP clients that can simultaneously log on, the response performance may deteriorate.

#### Web server access

If the file reading has not completed successfully or a message that requests to reload the page appears while the Web server function is used, read the file again.

#### **Communication timeout time**

Since the communication timeout time depends on the browser specifications, it may not be the same as the timeout time of the Web server (five minutes). The design of the error window differs depending on the browser.

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# APPENDICES

## Appendix 1 System Web Page Version

The MELSEC iQ-R series CPU modules have restrictions on the combination of the system Web page version and the firmware version of the CPU modules.

#### R00CPU, R01CPU, R02CPU

System Web page version	CPU module firmware version
1.00	"05" or later
1.01	"08" or later
1.02	"11" or later
1.03	"14" or later

#### MELSEC iQ-R series CPU modules other than the above

System Web page version	CPU module firmware version
1.00	"35" or later
1.01	"40" or later
1.02	"43" or later
1.03	"46" or later

## Appendix 2 User Web Page Version

The MELSEC iQ-R series CPU modules have restrictions on the combination of the user Web page version and the firmware version of the CPU modules.

#### R00CPU

The user Web page is not available to the R00CPU.

R01CPU, R02CPU	
User Web page version	CPU module firmware version
1.00	"05" or later
1.01	"11" or later

#### MELSEC iQ-R series CPU modules other than the above

User Web page version	CPU module firmware version
1.00	"35" or later
1.01	"43" or later

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# REVISIONS

Revision date	*Manual number	Description
April 2018	SH(NA)-081982ENG-A	First edition
October 2018	SH(NA)-081982ENG-B	<ul> <li>Added functions</li> <li>Event history (MELSEC iQ-F), user Web page (MELSEC iQ-F)</li> <li>Added or modified parts</li> <li>SAFETY PRECAUTIONS, RELEVANT MANUAL, Chapter 1, Section 1.1, 2.1, Chapter 3, Section 3.1, 3.4, 3.6, 3.9, Chapter 4, Section 4.1, 4.4, 4.5, Appendix 1</li> </ul>
April 2019	SH(NA)-081982ENG-C	Added or modified parts Section 1.1, 3.2, Chapter 4, Section 4.1, 4.3, 4.4, 4.5, Appendix 1, 2
October 2019	SH(NA)-081982ENG-D	Added or modified parts Chapter 1, Section 1.1, 1.3, 2.1, 3.2, 3.5, 3.6, Chapter 4, Section 4.3, Appendix 1

#### \*The manual number is given on the bottom left of the back cover.

#### Japanese manual number: SH-081981-F

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## WARRANTY

Please confirm the following product warranty details before using this product.

#### 1. Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.

However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

#### [Gratis Warranty Term]

The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place. Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

[Gratis Warranty Range]

- (1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
- (2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
  - 1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
  - 2. Failure caused by unapproved modifications, etc., to the product by the user.
  - 3. When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
  - 4. Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
  - 5. Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
  - 6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
  - 7. Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

#### 2. Onerous repair term after discontinuation of production

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Product supply (including repair parts) is not available after production is discontinued.

#### 3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

#### 4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

- (1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
- (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
- (3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.
- (4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

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The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

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SH(NA)-081982ENG-D(1910) MODEL: RAFCPU-GUIDE-WB-E

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