Changes for the Better



FX Configurator-EN-L

OPERATION MANUAL

FX Configurator-EN-L

Operation Manual

Manual number JY997D38401	
Manual revision	С
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Foreword

This manual describes FX Configurator-EN-L and should be read and understood before attempting installation or operation of software.

Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

Outline Precautions

- This manual provides information for the use of the FX Configurator-EN-L. The manual has been written to be used by trained and competent personnel. The definition of such a person or persons is as follows;
- Any engineer who is responsible for the planning, design and construction of automatic equipment using the product associated with this manual should be of a competent nature, trained and qualified to the local and national standards required to fulfill that role. These engineers should be fully aware of all aspects of safety with regards to automated equipment.
- 2) Any commissioning or service engineer must be of a competent nature, trained and qualified to the local and national standards required to fulfill that job. These engineers should also be trained in the use and maintenance of the completed product. This includes being completely familiar with all associated documentation for the said product. All maintenance should be carried out in accordance with established safety practices.
- 3) All operators of the completed equipment should be trained to use that product in a safe and coordinated manner in compliance to established safety practices. The operators should also be familiar with documentation which is connected with the actual operation of the completed equipment.
 - **Note:** the term 'completed equipment' refers to a third party constructed device which contains or uses the product associated with this manual
- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.
- When combining this product with other products, please confirm the standard and the code, or regulations with which the user should follow. Moreover, please confirm the compatibility of this product to the system, machine, and apparatus with which a user is using.
- If in doubt at any stage during the installation of the product, always consult a professional electrical
 engineer who is qualified and trained to the local and national standards. If in doubt about the operation or
 use, please consult the nearest Mitsubishi Electric distributor.
- Since the examples indicated by this manual, technical bulletin, catalog, etc. are used as a reference, please use it after confirming the function and safety of the equipment and system. Mitsubishi Electric will accept no responsibility for actual use of the product based on these illustrative examples.
- This manual content, specification etc. may be changed without a notice for improvement.
- The information in this manual has been carefully checked and is believed to be accurate; however, if you have noticed a doubtful point, a doubtful error, etc., please contact the nearest Mitsubishi Electric distributor.

Registration

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- The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company.

Associated Manuals

Manual name	Manual No.	Description
FX Configurator-EN-L Operation Manual	JY997D38401 MODEL CODE: 09R929	This manual
FX3U-ENET-L INSTALLATION MANUAL	JY997D37801	Installation of FX3U-ENET-L block.
FX₃∪-ENET-L User's Manual	JY997D38001	Describes the details of specifications, wiring,installation, maintenance, and operation of FX ₃ U-ENET-L.
FX₃∪ Series HARDWARE MANUAL	JY997D18801	Extracts the I/O specifications, wiring, and installation of FX3U Series PLC from FX3U Series HARDWARE MANUAL.
FX₃∪ Series User's Manual - Hardware Edition	JY997D16501 MODEL CODE: 09R516	Explains FX ₃ U Series PLC specification details for I/O, wiring, installation, and maintenance.
FX3UC(D, DSS) Series HARDWARE MANUAL	JY997D28601	Extracts the I/O specifications, wiring, and installation of FX3uc Series PLC from FX3uc Series HARDWARE MANUAL.
FX3uc-32MT-LT-2 Hardware Manual	JY997D31601	I/O specifications, wiring and installation of the PLC main unit FX _{3UC} -32MT-LT-2 extracted from the FX _{3UC} Series User's Manual -Hardware Edition.
FX₃uc Series User's Manual - Hardware Edition	JY997D28701 MODEL CODE: 09R519	Explains FX _{3UC} Series PLC specification details for I/O, wiring, installation, and maintenance.
FX3G/FX3U/FX3UC Series Programming Manual - Basic & Applied Instruction Edition	JY997D16601 MODEL CODE: 09R517	Describes PLC programming for basic/applied instructions and devices.
iQ Works Beginner's Manual	SH-080902ENG MODEL CODE: 13JZ44	Explains fundamental operation methods such as managing the system using MELSOFT Navigator and using system labels for users inexperienced with iQ Works.

How to obtain manuals

For product manuals or documents, Please contact the Mitsubishi Electric dealer from where you purchased your product.

Names Used in Manuals

Names Used in Manuals	Name	
FX3U-ENET-L Configuration tool	FX Configurator-EN-L	

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1. INTRODUCTION

1.1 Outline of Product

This product is PC software for setting parameter diagnostics of the FX3U-ENET-L type Ethernet interface block (hereinafter referred to as "Ethernet module").

1.2 Product Configuration

SW1D5-FXENETL-E Manual: one copy (this manual)

1.3 Function

The main functions for FX3U-ENET-L Configuration tool are as follows:

- Creation of parameters : Sets each parameter for the Ethernet module.
- Online function : Reads and writes parameters from/to the Ethernet module. In addition, remotely operates the PLC.
- Ethernet diagnostics function : Checks various settings of the Ethernet module.

1.4 Compatible Model

FX3U-ENET-L type Ethernet interface block

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1.5 Operating System Requirements

The FX_{3U}-ENET-L Configuration tool software is designed to be installed on a computer that meets or exceeds the following specifications. Please check whether your personal computer meets these requirements prior to the software installation.

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Table: Personal Computer Requirements

ltem	Description	
Microsoft [®] Windows [®] 95 English version (Service Pack 1 or later)		
	Microsoft [®] Windows [®] 98 English version	
	Microsoft [®] Windows [®] Millennium Edition English version	
os	Microsoft [®] WindowsNT [®] 4.0 Workstation English version (Service Pack 3 or later)	
	Microsoft [®] Windows [®] 2000 English version	
	$Microsoft^{\ensuremath{\mathbb{B}}}$ Windows $^{\ensuremath{\mathbb{R}}}$ XP English version (Home Edition or Professional) *2	
	Microsoft [®] Windows Vista [®] English version (Home Basic, Home Premium, Business, Ultimate or Enterprise) ^{*2}	
	Microsoft [®] Windows [®] 7 English version (Ultimate, Enterprise, Professional, Home Premium or Starter) ^{*2}	
	Microsoft [®] Windows [®] 95: CPU Pentium133MHz or better one	
	Microsoft [®] Windows [®] 98: CPU Pentium133MHz or better one	
	Microsoft [®] Windows [®] Millennium Edition: CPU Pentium 150 MHz or better one	
PC main body	Microsoft [®] WindowsNT [®] 4.0: CPU Pentium133MHz or better one	
	Microsoft [®] Windows [®] 2000: CPU Pentium133MHz or better one	
	Microsoft [®] Windows [®] XP: CPU Pentium 300MHz or better one	
	Microsoft [®] Windows Vista [®] : CPU Pentium 1GHz or better one	
	Microsoft [®] Windows [®] 7: CPU Pentium 1GHz or better one	
	Microsoft [®] Windows [®] 95: 64 MB or more	
	Microsoft [®] Windows [®] 98: 64 MB or more	
	Microsoft [®] Windows [®] Millennium Edition: 32 MB or more	
Required memory	Microsoft [®] WindowsNT [®] 4.0: 64 MB or more	
	Microsoft [®] Windows [®] 2000: 64 MB or more	
	Microsoft [®] Windows [®] XP: 128MB or more	
	Microsoft [®] Windows Vista [®] : 1GB or more	
	Microsoft [®] Windows [®] 7: 1GB or more	
Hard disk capacity	Free space of 150 MB or more	
Display	Video display adaptor whose resolution is SVGA (800 $ imes$ 600) *1	
Interface	RS-232C port, USB port, Ethernet board	
Printer	Printer in accordance with the OS above	
Others	Mouse or other pointing device	

- *1. When using Microsoft[®] Windows Vista[®] or Microsoft[®] Windows[®] 7, the recommended resolution is 1024×768 or more.
- *2. Only the 32 bit version of this operating system is supported.

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1.6 Installation

1 Execute SETUP.EXE in the Installer file.

2 Follows the guidance on the PC display to complete the installation.

Caution

FX3∪-ENET-L Configuration tool requires the following version or later of MELSOFT iQ Works (SW1DN□-IQWK-E) or GX Developer (SW8D5C-GPPW-E).

- MELSOFT iQ Works (SW1DN□-IQWK-E)
 - "□" indicates "D" (DVD version) or "C" (CD version).

Operating System	Version	
Windows [®] 2000, Windows [®] XP, Windows Vista [®] , Windows [®] 7	Ver. 1.15R or later	

• GX Developer (SW8D5C-GPPW-E)

Operating System	Version	
Windows [®] 95, Windows [®] 98, Windows [®] Millennium Edition, WindowsNT [®] 4.0, Windows [®] 2000, Windows [®] XP, Windows Vista [®]	Ver. 8.88S or later	
Windows [®] 7	Ver. 8.91V or later	

1.7 Uninstallation

1 Click [Add or Remove Programs] in the control panel.

Note

- Double-click [Add/Remove Programs] on the control panel in Windows[®] 95,
 Windows[®] 98, Windows[®] Millennium Edition, WindowsNT[®] 4.0, Windows[®] 2000.
- Click [Programs] on the control panel in Windows Vista[®] or Windows[®] 7.

2 Select [Change or Remove Programs] in [Add or Remove Programs] window.

- Click [Add/Remove] on [Add/Remove Programs] property in Windows[®] 95, Windows[®] 98, Windows[®] Millennium Edition and WindowsNT[®] 4.0.
- Click [Change or Remove Programs] in [Add/Remove Programs] in window in Windows[®] 2000.
- Double click [Uninstall a program] of [Programs and Features] in Windows Vista[®] or Windows[®] 7.

3 Click [FX3U-ENET-L Configuration tool] to uninstall.

Note

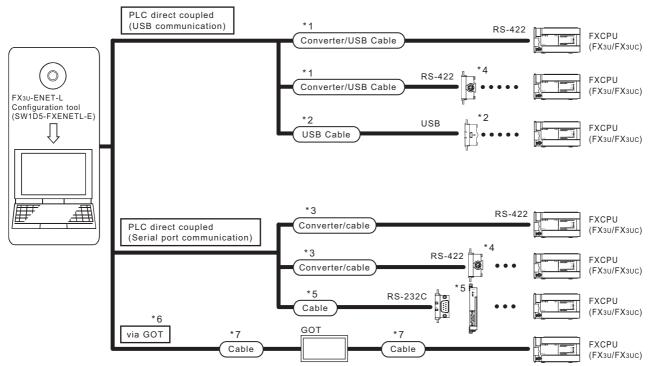
Double-click [FX3U-ENET-L Configuration tool] and go to the step 5 in Windows Vista[®] or Windows[®] 7.

- 4 Click [Change/Remove] button.
- 5 Follow the guidance on the PC display to complete the uninstallation.

2. SYSTEM CONFIGURATION

2.1 Connection from the USB and Serial Port

The following system configurations illustrate the possible connections from the serial port or USB of a personal computer to the FX3U/FX3UC.



When the Ethernet parameters are written for the first time, they

(FX3U-ENET-L Configuration tool data) are written using the programming port of the main unit PLC.

- *1. About the converter / cable
 - 1) System configuration

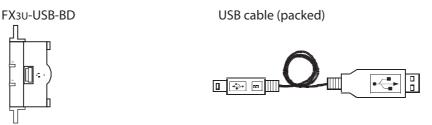
FX-USB-AW

USB cable (packed)



- 2) The converter / cable may be used if the driver on the CD-ROM that is packed with the FX-USB-AW and FX_{3U}-USB-BD has been installed. For the applicable Windows[®] Operating System, refer to the respective manual.
- 3) On GX Developer, choose [Online] [Transfer setup] and set the serial COM port number.
- 4) For precautions and restrictions on the use of the FX-USB-AW, refer to the manual packed with the FX-USB-AW.

- *2. USB cable and function expansion board
 - 1) System configuration



The FX₃U-USB-BD can not be attached to the FX₃UC-DDMT/D and FX₃UC-DDMT/DSS PLC.

2) If "Operate communication setting" is checked on the [PLC System (2)] tab in the [PLC Parameter] dialog box within GX Developer, the corresponding port cannot be used for communication with the PLC. In this case, clear the setting and download the updated information to the PLC via the built-in RS-422 programming port on the PLC.

FX parameter	
Memory capacity Device PLC name 1/0 assignment F	PLC system(1) PLC system(2) Positioning
Operate (When the program is trans	the parameters will be cleared. sfered to the communication board, parameters and nust be cleared upon program transfer.)
Protocol	Control line
Data length	H/W type
Parity	Control mode
Stop bit	Sum check
Transmission speed	Transmission control procedure
F Header	Station number setting H (00H-0FH)
Terminator	Time out judge time X10ms (1-255)
Default	Check End Cancel

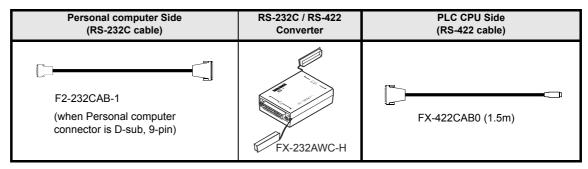
When the PLC type of the project is the FX3U(C), the channel specification (CH1/CH2) combo box is displayed. Set to CH1 and check the settings.

- 3) The USB cable and function expansion board are available if the driver on the CD-ROM that is packed with the FX-USB-AW and FX_{3U}-USB-BD has been installed. For the applicable Windows[®] Operating System, refer to the respective manual.
- 4) On GX Developer, set the serial COM port number by choosing [Online] [Target setup].
- 5) For the precautions and restrictions on use of the FX_{3U}-USB-BD, refer to the manual packed with the FX_{3U}-USB-BD.



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*3. About the converter / cable



*4. Expansion board

Series	Expansion board
FX3U, FX3UC	FX3U-422-BD

The FX3U-422-BD can not be attached to the FX3UC-DDMT/D and FX3UC-DDMT/DSS PLC.

If "Operate communication setting" is checked on the [PLC System (2)] tab in the [PLC Parameter] dialog box within GX Developer, the corresponding port cannot be used for communication with the PLC. In this case, clear the setting and download the updated information to the PLC via the built-in RS-422 programming port on the PLC.

FX parameter	
Memory capacity Device PLC name 1/0 assignment P	LC system(1) PLC system(2) Positioning
Operate (When the program is transf	ne parameters will be cleared. ered to the communication board, parameters and ust be cleared upon program transfer.)
Protocol	Control line
Data length	H/W type
Parity	Control mode
-Stop bit-	Sum check
Transmission speed (bps)	Transmission control procedure
Header	Station number setting H (00H+0FH)
Terminator	Time out judge time X10ms (1255)
Default	Check End Cancel

When the PLC type of the project is the FX3U(C), the channel specification (CH1/CH2) combo box is displayed.

Set to CH1 and check the settings.

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*5. RS-232 cable and expansion board/special adapter

Serial port shape of personal computer	Series	Required expansion board and special adaptor	RS-232C cable
D sub 9 pin	FX3U	FX3U-232-BD	FX-232CAB-1
D Sub o pin	FX3UC	Function expansion board (FX3U-***-BD) + FX3U-232ADP	177 2020/10 1

*** of the function expansion board (FX_{3U}-***-BD) indicates 232, 485, 422, USB or CNV. The FX_{3UC}-DDMT/D and FX_{3UC}-DDMT/DSS PLC can be attached to the FX_{3U}-232ADP without an expansion board (FX_{3U}-***-BD).

If "Operate communication setting" is checked on the [PLC System (2)] tab in the [PLC Parameter] dialog box within GX Developer, the corresponding port cannot be used for communication with the PLC. In this case, clear the setting and download the updated information to the PLC via the built-in RS-422 programming port on the PLC.

FX parameter	
Memory capacity Device PLC name 1/0 assignment PI	LC system(1) PLC system(2) Positioning
When the program is transf	e parameters will be cleared. ered to the communication board, parameters and ust be cleared upon program transfer.)
Protocol	Control line
Data length	H/W type
Parity	Control mode
Stop bit	Sum check
Transmission speed (bps)	Transmission control procedure
Header	Station number setting H (00H0FH)
Terminator	Time out judge time X10ms (1~255)
·	
Default	Check End Cancel

When the PLC type of the project is the $FX_{3U(C)}$, the channel specification (CH1/CH2) combo box is displayed.

FX3U/FX3UC Series

When using the first FX3U-232ADP connected to the FX3U-232-BD or FX3U-CNV-BD, set "CH1" and check the settings.

When using the FX3U-232ADP connected to equipment other than the FX3U-CNV-BD or using the second FX3U-232ADP connected to the FX3U-CNV-BD, set "CH2" and check the settings.

*6. The table below shows the connection type between the personal computer and the GOT.

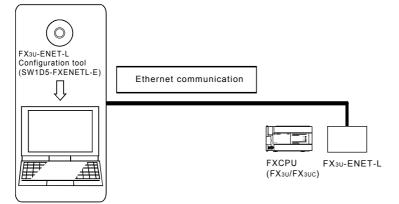
		GOT		
		GOT1000 Series	GOT-A900 Series	GOT-F900 Series
-	RS-232 connection	0	0	0
method	USB connection	0	-	-

O : Connectable

- *7. For the GOT connection cable, settings in the GOT, and precautions; refer to the manual of the connected GOT.
 - 1) GOT1000 Series Connection Manual
 - 2) GOT-A900 Series User's Manual (Connection System Manual)
 - 3) GOT-F900 Series HARDWARE Manual [connection]

2.2 Connection from the Ethernet Port

the following system configuration is made up by connection from the Ethernet port.



When the Ethernet parameters are written for the first time, the Ethernet parameters

(FX₃U-ENET-L Configuration tool data) are written using the programming port of the main unit of PLC.

STARTING METHOD 3.

3.1 Starting FX3U-ENET-L Configuration tool

To start FX3U-ENET-L Configuration tool, the following methods are available:

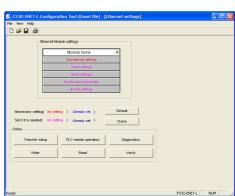
3.1.1 Starting FX3U-ENET-L Configuration tool from the start menu

- 1 Click on [Start] and move the cursor onto [Programs] then onto [MELSOFT Application] menus.
 - When Windows[®] XP , Windows Vista[®] or Windows[®] 7 is used, [All programs] is displayed.
- 2 **Click on the [FX3U-ENET-L** Configuration tool] menu.

Administrator	 Set Program Access and Defaults Windows Catalog Windows Update 	
Internet Explorer Fenal Control Control Cont	MELSOFT Application •	To PELFANGweb Homepage Gr Developer F OV Developer F PXOL ENET-L Configuration Tool
	🖉 Log Off 🛛 🚺 Shut Do	vin .
🛃 start		

$$\mathbf{1}$$

3 **FX3U-ENET-L** Configuration tool will start up.



1

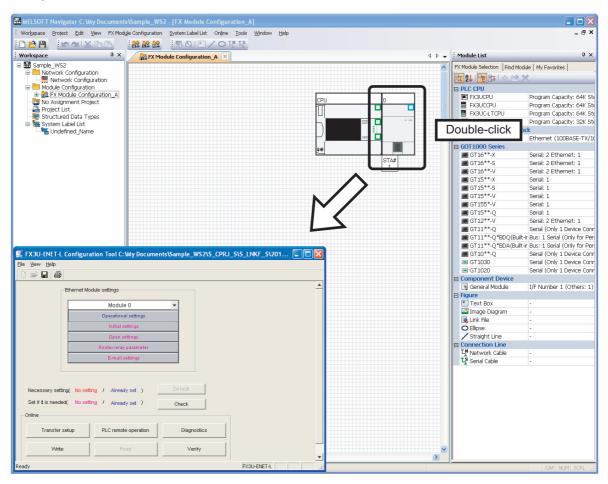
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3.1.2 Starting MELSOFT Navigator from the module configuration diagram

Refer to the MELSOFT iQ Works Manual for the module configuration diagram creation method. Double-click the Ethernet module laid out in the module configuration diagram to start FX3U-ENET-L Configuration tool.



POINT

The following functions are invalid when FX3U-ENET-L Configuration tool is started from MELSOFT iQ Works

- 1) Online read
- 2) Setting Defaul
- 3) Setting IP address on the operational settings
- 4) Creates a new file, opens an existing file, names and saves a file and opens recent file

3.1.3 Starting GX Developer from the tool menu

Select [Tools] of the GX Developer, [FX special function utility] and [FX3U-ENET-L Configuration tool] menus to start FX3U-ENET-L Configuration tool.



3.2 Screen Transition

D 🛩 🖬 🎒	Ethernet module par	
	Sets the parameters	to operate the Ethernet module.
Ethernet Module settings		
Module None -	FX30-ENET-L Configuration Tool (Unset file) - [Ethe The Yow Hile	rnet e-mail settings)
Operational settings	Pie Yew Hep	
Initial settings	- General setting	
Open settings Router relay parameter	Password Mail editress	
E-mail settings		
		n eclastic teoH at hereit (2523)
	- Mail server name	
Necessary setting(No setting / Already set) Default	- Send nail setting	
Set if it is needed(No setting / Already set) Check	(* IP editress DEC. 💌	
Cnine	SMTP Fort No. @ 25(Default) C Other	(1-65335)
Transfer setup PLC remote operation Diagnostics	C 567(Subrestein Port) SMTP authentication Setting POP before SMTP	
	- Receive real retire	
Write Read Verify	C POP terver name	
	P Padatess DEC V	
	POP Port No. @ 110(Dersuit) C Other	(1-66536)
	Ready	FIGUEDNET-L NUM
4.	FX3U-ENET-L NUR	
27	Ready	FIGUERIET-L NUM
· · · · · · · · · · · · · · · · · · ·	Ready	PC3U-EMET-L MUM
ting		
erface C Rhemet board		
32C @ P.Address per v 192 168 0 101		
de FX-USB-AW(FX3L-USB-BD) GOT Trensparent mode) C Host Name	Ethernet diagnosti	cs function (See Chapter 6.)
(of transparent mode)	Various settings of	the Ethernet module can be check
COM3 V	3	
n speed 115.3/daps 💌	Make Ethernet diagnostics	
		Related function
	Connection interface COM3-115.2k	Inclated function
nmunication time 30 sec Connection test		0
	Connection interface COM3-115.2	Obps Transfer setup
		Transfer setup
OK Cancel	Diagnostics	Close PLC remote operation
CK Curcel	Diagnostics	PLC remote operation
Read Close PLC rende	Diagnostics	PLC remote operation
Figure Fi	Diagnostics	PLC remote operation
e function (See Chapter 5.)	Disgnostics	Close PLC renote operation
e function (See Chapter 5.)	Disgnostics	PLC remote operation
e function (See Chapter 5.)	ernet module, tely operates the PLC.	Close PLC remote operation
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e function (See Chapter 5.)	Evernet module, http://www.internet.com/ totely operates the PLC.	Close PLC renote operation Close Change P address display Change P addr

The screen transition of FX3U-ENET-L Configuration tool is shown below.

3.3 Loading or Saving the Files

The settings of parameters specified by FX_{3U}-ENET-L Configuration tool can be saved in a file (file form: .fel).

Save As 🔹 🤶 🔀
Save in: 🔁 My Documents 💽 🔶 💼 📸
My Music
📇 My Pictures
File name: Save
Save as type: FX3U-ENET-L Configuration Tool FILE(".fel) Cancel
Title:

1



4. SETTING THE ETHERNET PARAMETERS

4.1 Setting the Ethernet

[Purpose of setting]

This setting enables the Ethernet module to be used as a network module. It also serves as the main screen where [Operational settings], [Initial settings] etc., are performed to use the Ethernet module.

[Operating procedure]

Start FX_{3U}-ENET-L Configuration tool from the [Tools] menu of GX Developer or from the Windows start menu to display this screen.

[Setting screen]

🏨 FX3U-ENET-L Configurat	ion Tool (Unset file) -	[Ethernet settings]	
File View Help			
🗅 🚅 🖬 🎒			
- Ethernet Mod	ule settings		
	Module None	▼	
	Operational settings		
	Initial settings		
	Open settings		
	Router relay parameter		
	E-mail settings		
Necessary setting(No settin Set if it is needed(No settin _ Online		Default Check	
Transfer setup	PLC remote operation	Diagnostics	
Write	Read	Verify	
, Ready		FX3U-ENET-L	

Item name	Description of setting
Module None	Select the number of the Ethernet module to be set. No module designation * ¹ * ² Modules 0 to 7
Operational settings (Detailed description: Section 4.2)	Set the common items of the Ethernet module.
Initial settings (Detailed description: Section 4.3)	Set the timer values for data communications.
Open settings (Detailed description: Section 4.4)	Set the open process or the close process of connection.
Router relay parameter (routing information) (Detailed description: Section 4.5)	Specify the setting for taking communications via the router.
E-mail settings (Detailed description: Section 4.6.1)	Specify the setting for sending e-mail.

Item name	Description of setting
E-mail address setting (Detailed description: Section 4.6.3)	Set the sending destination mail address to send an e-mail.

*1. The Ethernet module corresponding to the smallest module number among the PLCs connected is set for FX3U-ENET-L Configuration tool.

*2. Can be set only when remotely-operating the PLC or reading parameters.



4.2 **Operational Settings**

[Purpose of setting]

Set the common items of the modules to use the Ethernet module. Ensure this setting is specified since it is necessary for initializing the Ethernet module.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow Operational settings]

[Setting screen]

🔢 FX3U-ENET-L Configuration Tool (Unset	t file) - [Ethernet operational settings]
File View Help	
impossible at S	or OPEN (Communication
IP address	Send frame setting
Input format DEC.	
IP address 192 168 0	101 C IEEE802.3
	TCP Existence confirmation setting
	C Use the KeepAlive
End	Cancel
	_
	×
Ready	FX3U-ENET-L NUM

lte	em name	Description of setting
Communication data code		 Select the communication data code with an external device when using a fixed buffer or MC protocol for communications. Binary code communications: Communicate using a binary code. ASCII code communications: Communicate using ASCII data.
Initial timing		 Select the timing to open for connections for which TCP-Passive open or UDP open are selected with the "Open settings" (See Section 4.4). Do not wait for OPEN Execute open/close processing using a sequence program. When using an MC protocol for communications, communication can not be performed while the PLC is in the STOP status. Always wait for OPEN Passive open and UDP open connections always wait for open according to the parameter settings (a sequence program for open/close processing is not required). When using an MC protocol for communications, communication can be performed while the PLC is in the STOP status.
IP address	Input format	Select the IP address input format. - Decimal - Hexadecimal
	IP address	Set the IP address of the local station.
Send frame	setting	Select the frame of the Ethernet header for the data link layer to be sent by the Ethernet module. - Ethernet (V2.0) : Transmits using an Ethernet frame. - IEEE802.3 : Transmits using an IEEE802.3 frame.
TCP Existen	ice setting	Select the existence check method for TCP protocol communications. - Use the KeepAlive : Checks connection status with KeepAlive. - Use the Ping : Checks connection status with Ping.

4.3 Initial Settings

[Purpose of setting]

Set the minimum parameters necessary for exchanging data to the Ethernet module, allowing data exchange with external device.

[Operating procedure]

[Ethernet setting] of FX3U-ENET-L Configuration tool \rightarrow Initial settings

[Setting screen]

👫 FX3U-ENET-L Configuration Tool (Unset file) - [Ethernet	initial setti	ngs]	
File View Help				
Timer setting				
Module will operate with default values if setting is left b	lank			
	Setting value	Default value	In units	
TCP ULP timer		60	X500ms	
TCP zero window timer		20	X500ms	
TCP resend timer		20	X500ms	
TCP end timer		40	X500ms	
IP assembly timer		10	X500ms	
Response monitoring timer		60	X500ms	
Destination existence confirmation starting interval		1200	X500ms	
Destination existence confirmation interval timer		20	X500ms	
Destination existence confirmation resend		3	Times	
Destination existence confirmation resend 3 IImes DNS setting Input format DEC. IP address of DNS server 1 IP address of DNS server 2 IP address of DNS server 3 IP address of DNS server 4				
End Cancel				

	Item name	Description of setting		
	TCP ULP timer	Set the time of packet existence (2 to 32767) at ICP data transmission.		
	TCP zero window timer	Set the interval for checking the reception enabled status (2 to 32767).		
	TCP resend timer	Set the time (2 to 32767) to resend at TCP data transmission.		
	TCP end timer	Set the confirmation wait time (2 to 32767) at TCP close processing.		
Timer	IP assembly timer	Set the wait time (1 to 32766) for division data packets.		
setting	Response monitoring timer	Set the response wait time (2 to 32767).		
	Destination existence confirmation starting interval	Set the time (1 to 32767) to start confirming existence of a destination device after communication with the device has terminated.		
	Destination existence confirmation interval timer	Set the time interval (1 to 32767) between confirming existence.		
	Destination existence confirmation resend	Set the number of times to reconfirm existence when a response to the existence confirmation is not received.		
	Specify this setting for sending or receiving an e-mail. Designate the IP address of the domain name server (DNS) specified by the Ethernet module.			
	Input format	Select IP address input format (decimal/hexadecimal) of DNS server.		
DNS	IP address of DNS server 1	Set IP address of DNS server 1.		
setting	IP address of DNS server 2	Set IP address of DNS server 2.		
	IP address of DNS server 3	Set IP address of DNS server 3.		
	IP address of DNS server 4	Set IP address of DNS server 4.		

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POINT

1) The DNS server controls the network.

DNS setting is necessary when the SMTP server and the POP3 server are searched for from the domain name.

2) Use the DNS setting to specify the mail server name as a domain name. (See Section 4.6.)

If the IP address is used to specify the mail server name, the setting is unnecessary.

3) To acquire the IP address from the domain name, search the DNS servers from the first one in order.

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4.4 Open Setting

[Purpose of setting]

Set the open processing or close processing for each connection.

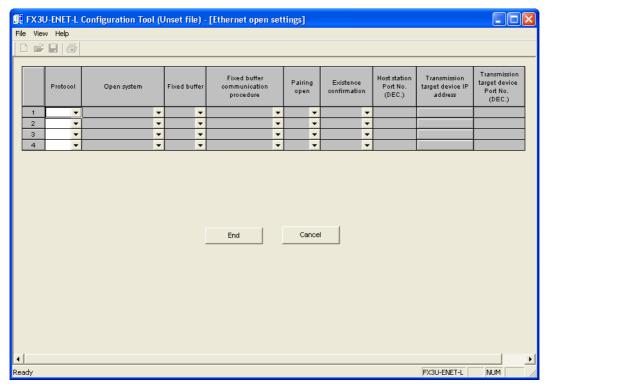
IMPORTANT

If "Always wait for OPEN (Communication possible at STOP time" is selected on the Operational Settings screen (see Section 4.2), be sure to set parameters on this screen for a connection for which Passive open or UDP open is selected for communications.

[Operating procedure]

Select [Ethernet Settings] of FX3U-ENET-L Configuration tool \rightarrow Open settings]

[Setting Screen]



Connection No. 1 and No. 2 are dedicated to the Fixed buffer communication, and connection No.3 and No. 4 are dedicated to MC Protocol communication.

Item name	Description of setting	
Protocol	Select a protocol for each connection. - TCP/IP : Communicate using TCP/IP. - UDP/IP : Communicate using UDP/IP.	

4.4	Open	Setting
-----	------	---------

Item name	Description of setting	
	Select the open system for each connection for which "TCP" is selected in "Protocol". (If "UDP" is selected, the specification of this item is not required.) Active ^{*5}	
	 Perform active open processing to an external device that waits for a passive open (Full passive/ Unpassive) on the TCP connection. Unpassive (When setting the Connection No.1 or Connection No.2.) / Unpassive(MC)(When setting 	
	the Connection No.3 or Connection No4.) : Perform passive open processing on the TCP connection addressing all the devices connected to a network.	
Open system	(The local station is placed in the wait status to wait for an Active open request to be sent.) Fullpassive(When setting the Connection No.1 or Connection No.2.)/ Fullpassive(MC) (When setting the Connection No.3 or Connection No.4.)	
	 Perform passive open processing on the TCP connection, only addressing specific devices. (The local station is placed in the wait status to wait for an Active open request to be sent.) MELSOFT connection *1*2*3 	
	: Used to connect MELSOFT products via TCP/IP communication. Perform passive open processing on the TCP connection, addressing all the MELSOFT products connected to a network.	
	Select whether the fixed buffer corresponding to each applicable connection will be used for sending or receiving.	
Fixed buffer ^{*5}	 Send : For sending / fixed buffer communication is not used Receive : For receiving 	
	Select the communication method when communicating using the fixed buffers Procedure exist	
Fixed buffer communication ^{*5}	 Data is communicated in 1:1 by handshaking with the external device. No procedure 	
	 The No procedure fixed buffer communication uses dedicated connections. The PLC and external devices communicate data in 1:1. 	
	The handshaking with an external device must be performed using a sequence program.	
Pairing open ^{*5}	Select whether or not the Ethernet module's receiving and sending connections are made into one pair and connected to one port of an external device (only when using fixed buffer communication) No pairs - Pairs	
Existence confirmation *4	Select whether or not to confirm the existence of the external device No confirm - Confirm	
Local station Port No.	Set the local station port number (1025 to 5548 or 5552 to 65534) (in decimal).	
Destination IP address	Select the IP address of an external device (in decimal/hexadecimal).	
Destination Port No.	Set the port numbers of the external devices (1025 to 65535) (in decimal).	

- *1. Regardless of the initial timing setting in the operation setting (refer to Section 4.2), this connection will always wait for the open status.
- *2. The set connection is dedicated to data communication with the MELSOFT products. Can only be selected when using connection No. 3 or No. 4.
- *3. When simultaneously connecting to multiple MELSOFT products, set the connections as many as the number of MELSOFT products. Up to two connections can be set.
- *4. If the external device will be changed while a UDP/IP connection is open, select
 "No confirm."
 If "Confirm" is selected, the Ethernet module will confirm the existence of the first destination after the
 UDP/IP connection is opened. Existence confirmation is not performed for the changed destination,
 i.e. the newly selected external device.
- *5. Can only be selected when using connection No. 3 or No. 4.

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	Communication		TC	P			IDP
system		Active		Pas	sive		IDP
	open	ARP function of	of external			ARP function	of external
Parameter	system	device		Unpassive	Fullpassive	device	
i arameter		Yes	No		-	Yes	No
	Local station		-	-	-		
	Port No.	0	0	0	0	0	0
	Destination IP			×	-		
Communi	address	0	0	Х	0	0	0
cation	Destination	0	0	×	0	0	0
address	Port No.	0	0	Х	0	0	0
	Destination			1			1
	Ethernet	O ^(*1)	0	х	х	O ^(*1)	0
	address (*2)						
The sc	*2. When used. g example for creen for pairin -ENET-L Configuration	using the "Op using pairing ig communica	e (FFFFFFFF pen settings" of to communicat ation with FX3U (thernet open settings)	f FX3U-ENET te I-ENET-L Cor	-L Configura		
The sc	*2. When used. g example for creen for pairin	using the "Op using pairing ig communica	to communicat ation with FX3U	f FX3U-ENET	-L Configuration to		
The sc File View	*2. When used. g example for creen for pairin -ENET-L Configuration	using the "Op using pairing t og communica n Tool (Unset file) - [F	to communicat ation with FX3U	f FX3U-ENET	-L Configura		
The sc File View	*2. When used. g example for creen for pairin -ENET-L Configuration Help Configuration (Open system CP V Unpassive	using the "Op using pairing to the communication tool (Unset file) - [f Fixed buffer	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Finable	f FX3U-ENET	L Configuration to		
	*2. When used. g example for creen for pairin -ENET-L Configuration Help Protocol Open system CP V Unpassive CP V Unpassive	using the "Op using pairing og communica Dool (Unset file) - [f Fixed buffer Fixed buffer Receive + Proce Send + Proce	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	-L Configuration to		
The sc File View	*2. When used. g example for creen for pairin -ENET-L Configuration Help Configuration (Open system CP V Unpassive	using the "Op using pairing to the communication tool (Unset file) - [f Fixed buffer	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The Vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The Vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The Vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The Vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	even settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	even settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The View The View The View	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	even settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist edure exist Enable edure exist Enable	f FX3U-ENET	L Configuration to		
The sc File View The Vie	*2. When used. g example for or creen for pairin -ENET-L Configuration - Help 	using the "Op using pairing f ig communica tool (Unset file) - [F	even settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist edure exist Enable edure exist Enable	f FX3U-ENET	-L Configuration to		
The sc File View Trie View	*2. When used. g example for pairin recen for pairin -INET-L Configuration -INET-L Confi	using the "Op using pairing f ig communica tool (Unset file) - [F	en settings" of to communicat ation with FX3U (thernet open settings) Fixed buffer procedure edure exist Fixed buffer edure exist Fixed buffer edu	f FX3U-ENET	-L Configuration to		

4.5 Router Relaying Parameter Setting

[Purpose of setting]

Specify this setting for relaying the router to gain additional communication.

[Operating procedure]

Select [Ethernet settings] of FX_{3U}-ENET-L Configuration tool \rightarrow [Router relay parameter]

[Setting screen]

FX3U-ENET-L Configuration Tool (Unset file)	- [Ethernet router relay parameter]	
File View Help		
Router relay function Not used Sub-net mask pattern & Router IP address DEC. Sub-net mask pattern		
Ready	FX3U-ENET-L NUM	
Item name	Description of setting	
uter relay function	 Set whether the router relay function will be used or not. Used The router relay function is used. Communications can be made with an external device on the other Ethernet moduvia a router or gateway. Not used The router relay function is not used. To communicate with an external device on the same Ethernet module (same sun net address of IP address), the router relay function is unnecessary. 	
b-net mask pattern & iter IP address input format	Select the input format (decimal or hexadecimal) for each setting item.	
bnet mask pattern * ¹	Set the subnet mask.	
uter IP address	Set the IP address of the target router to be used. Set the value that satisfies the following conditions. - Condition 1 : The IP address class is any of A, B or C. - Condition 2 : The sub-net address of the default router is the same as that of the local station Ethernet module. - Condition 3 : The host address bits are not all "0" or all "1."	

*1. When not using the subnet mask, set any of the following table values according to the class.

Class	Mask value
Class A	FF000000H
Class B	FFFF0000H
Class C	FFFFF00H

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4.6 E-mail Setting

4.6.1 E-mail setting

[Purpose of setting]

Use this setting for enabling e-mail functionality.

[Operating procedure]

Select [Ethernet settings] of FX_{3U}-ENET-L Configuration tool \rightarrow E-mail settings

[Setting screen]

E View Help	iguration Tool (Unset file) - [Ethernet e-mail settings]	
-General setting Password Mail address		
Mail server name Send mail setting		
 IP address SMTP Port No. 	DEC. © 25(Default) © Other (1-65535)	
SMTP authentication	C 587(Submission Port) Setting POP before SMTP	
Receive mail setting		
IP address	DEC. V	
POP Port No.	● 110(Default) C Other (1-65535)	
Send mail address set	ting End Cancel	

Item name			Discription of setting	
General			Set the password to the mail server (16 characters or less).	
setting			Set the mail address for the Ethernet module(64 characters or less).	
	Send mail setting	SMTP server name	Specify the domain address (64 characters or less) or IP address of the server.	
		Input format	 Select the input format (decimal or hexadecimal) of the send mail server's IP address. 	
		IP address	Set the IP address (00000001H to FFFFFFFH) of send mail server.	
Mail server name		SMTP Port No.	Set the 25(Default), Other(1 to 65535) or 587(Submission Port)	
		SMTP authentication.	Click the [Setting] button to display the SMTP authentication setting screen. Refer to Subsection 4.6.2 for the contents of setting. The selected authentication method is displayed on the right side of the [Setting] button.	
	Receive mail setting	POP server name ^{*1}	Set the receive mail server name (64 characters or less).	
		Input format *1	 Select the input format (decimal or hexadecimal) of the receive mail server's IP address. 	
		IP address *1	Set the IP address (00000001H to FFFFFFFH) of receive mail server.	
		POP Port No. *1	Set the 110(Default) or Other(1 to 65535).	

*1. Can only be set when "POP before SMTP" is selected in "SMTP authentication".

4.6.2 SMTP authentication setting

[Purpose of setting]

Use this setting for SMTP authentication.

[Operating procedure]

Select [Ethernet settings] of FX_{3U}-ENET-L Configuration tool \rightarrow [E-mail settings]

 \rightarrow SMTP authentication

[Setting screen]

SMTP authentication	n setting			×
Authentication method	None	C SMTP-Auth	C POP before SMTP	
User name				_
Password				
Password (Confirm)				
			End	Cancel

Item name	Description of setting
Authentication method Set the None, SMTP-Auth or POP before SMTP.	
User name ^{*1}	Set the user name of the SMTP server. (64 characters or less)
Password ^{*1} Set the password of the SMTP server. (64 characters or less)	
Password(Confirm) *1	Enter the password again.

*1. Can be set, only when selecting "SMTP-Auth".

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4.6.3 Send mail address setting

[Purpose of setting]

Register the e-mail address of the external devices where e-mail is to be sent.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool

 \rightarrow [E-mail settings] \rightarrow [Send mail address setting]

[Setting screen]

No	Send mail address	
1		
2		
з		
4		
5		
6		
7		
8		
9		
10		
	End Cancel	

Item name	Description of setting	
Send mail address	Set the mail address of the transmission destination (64 characters or less).	

POINT

- Designate the mail addresses of up to 10 external devices to which mails are sent from the local station's Ethernet module.

(Only one e-mail address can be specified for each area.)

In the send e-mail address setting, set up e-mail addresses consecutively starting from No. 1.
 To delete an e-mail address with a mid-setting number, specify dummy e-mail address in its place.
 (If an e-mail address is preceded by an empty address area(s), it will be shifted to fill the lowest No.
 unoccupied address. This will cause the setting numbers to change.)

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5. ONLINE FUNCTION

5.1 Designation of Destination to be Connected

[Purpose of setting]

Designate the PLC to be connected using FX3U-ENET-L Configuration tool.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool

 \rightarrow Transfer setup

[Setting screen]

Serial port/USB RS-232C (include FX-USB-AVWFX3U-USB-BD) USB(GOT Transparent mode)	C Ethernet board @ IP Address DEC. IP2 168 0 IO
COM port COM3 Transmission speed 115.2Kbps	
ine out Check at communication time 30	sec Connection test

Item name		name	Description of setting	
Serial port/USB			Select this setting when connecting the PLC using a RS232C/RS422 or USB cable.	
 RS-232C (include FX-USB-AW/FX3U-USB-BD) USB (GOT transparent mode) 		,	Select this setting when connecting the PLC using a RS232C/RS422 or USB cable.	
	Com port		Select the port (COM1 to 10) for the PC being connected to the PLC.	
Transmission Speed *1			Set the transmission speed of the PC and the PLC. Set according to the PC being used.	
Eth	Ethernet Board		Select this setting when connecting via the Ethernet module to the PLC.	
	Ip Address Host Name		Set the IP address assigned to the PLC being connected.	
			Set the name specified in the host's file (64 characters or less).	
Tim	Time out Check at communication time		Set the time out time with the PLC.	
Cor	Connection test *2		Click this button to confirm using the connection interface selected in "PC side I/F setting" whether communication has been established.	

- *1. At 115.2/57.6 kbps, high-speed communication is not possible unless the PC being used is compatible with the baud rate of 115.2/57.6 kbps. If communication retry is causing a delay in communication or a communication error results, lower the baud rate setting and perform communication again.
- *2. When communication is established, a message is displayed to notify the CPU model name and that communication is established.

When communication is not established, an error message corresponding to the cause is displayed.

5.2 Remote Operation

[Purpose of setting]

Control the PLC operation state using FX_3U-ENET-L Configuration tool.

[Operating procedure]

Select [Ethernet settings] of FX_{3U}-ENET-L Configuration tool \rightarrow PLC remote operation

[Setting screen]

PLC remote operation		
Operation ———		
C RUN	STOP	
Execute	Cancel	

Item name	Description of setting	NETERS
Operation	RUN : Run the PLC. STOP : Stop the PLC.	RS
Execute button	Execute the remote operation.	

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5.3 Reading or Writing Parameters

PLC remote operation button

[Purpose of setting]

Read or write parameters from/to the PLC.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow Read / Write

[Setting screen]

Read form Ethernet Moduls		
Connection interface COM3-115.2	Кыра	Related function
Read	Close	PLC remote operation
(When	reading parameters)	
Write to Ethernet Moduls		
Connection interface COM3-115.24	Kbps Close	Related function Transfer setup PLC remote operation
(When	writing parameters)	
Item name		Description of setting
nnection interface	Displays the connection destir (refer to Section 5.1).	nation from the connection destination designation s
ead button	Read parameter data.	
rite button	Write parameter data.	
ansfer setup button	Displays the connection desig	nation screen (refer to Section 5.1).

Displays the PLC remote operation screen (refer to Section 5.2).

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5.4 Verifying Parameters

[Purpose of setting]

Compare and verify parameters of the PLC with the FX3U-ENET-L Configuration tool data.

[Operating procedure]

PLC remote operation

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow [Verify]

button

[Setting screen]

Verify with Ethernet Moduls	
Connection interface COM3-115.2K	Bps Transfer setup Close PLC remote operation
Item name	Description of setting
Connection interface	Displays the connection destination from the connection destination designation screen (refer to Section 5.1).
Verify button	Compare and verify parameters of the connected PLC with the FX3U-ENET-L Configuration tool data.
Transfer setup button	Displays the connection designation screen (refer to Section 5.1).

Displays the PLC remote operation screen (refer to Section 5.2).

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6. ETHERNET DIAGNOSTICS FUNCTION

6.1 Ethernet Diagnostics Function

[Purpose of setting]

You can check the parameter status, error log, status of each connection, status of each protocol, LED status and sent e-mail information.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool

 \rightarrow Diagnostics \rightarrow Diagnostics

[Setting screen]

Ethernet diagnosis					
Target module setting Module			-Change IP addres		
Parameter status Error log Status of each connection Status of each protocol LED status Send (
-Module information					
Initial error code	0000				
IP address	192.168.0.101				
	0000 703 0 0003				
Ethernet address	0800.703A.0C02				
PING test COM.ERR off Start monitor Stop monitor Close					

Item name	Description of setting	
Target module setting	Specify the Ethernet module to be monitored.	
Change IP address display	Change the IP address indication between decimal and hexadecimal.	
Selection of various information monitors	Various information on the Ethernet module can be monitored. For details of various information, refer to Section 6.2 to 6.7.	
PING test button	Used to perform a PING test on the equipment on the other end. (Refer to Section 6.8.)	
COM ERR off button	Click this button to turn off the [COM ERR] LED.	
Start monitor button	Click this button to start Ethernet diagnostics. The display is updated during monitoring.	
Stop monitor button	Click this button to stop Ethernet diagnostics. The display is held during monitoring stop.	

6.2 Parameter Status

[Purpose of setting]

Monitors the parameter status of the Ethernet module.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow [Diagnostics] \rightarrow [Diagnostics]

 \rightarrow <Parameter status> tab

[Setting screen]

Module 0	r log │ Status of each	connection	Status of each pr	OEC	C HEX
Module information		I			
Initial error code	0000				
IP address	192.168.0.101				
Ethernet address	0800.703A.0C02				

Item name	Description of setting			
Initial error code	Displays the initial error code.			
IP address	Displays the station IP address.			
Ethernet address	Displays the station Ethernet address.			

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6.3 Error Log

[Purpose of setting]

Monitors the error log area.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow [Diagnostics] \rightarrow [Diagnostics]

 \rightarrow <Error log > tab

[Setting screen]

Ether	Ethernet diagnosis							
_ Tai	Target module setting Change IP address display							
	Module 0	~						
Para	Parameter status Error log Status of each connection Status of each protocol LED status Send (
Number of error occurrences 1								
No	Error end code	Sub header	Command code	Connection No.	Local Station port No. (DEC)	Destination IP address	Destination port No (DEC)	
Late	st COO1	0000	0000	0000	0	0.0.0.0	0	
2								
3								
4	_							
5	_							
7								
8								
9								
10							-	
Clear history								
PIN	G test	COM.ERR	off Sta	rt monitor	Stop monitor		Close	

Item name	Description of setting
Number of error occurrences	Displays the number of error occurrences
Error end code	Displays the error/termination code.
Sub header	Displays the sub header.
Command code	Displays the command code.
Connection No.	Displays the connection number.
Local Station port No.	Displays the station port number.
Destination IP address	Displays the IP address on the other end of communication.
Destination port No.	Displays the port number on the other end of communication.
Clear history button	Clears the error history.

6.4 Status of Each Connection

[Purpose of setting]

Monitors the status of each connection.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow [Diagnostics] \rightarrow [Diagnostics]

ightarrow <Status of each connection> tab

[Setting screen]

Item name	Description of setting			
Local Station port No.	Displays the own station port number.			
Destination IP address	Displays the IP address on the other end of communication.			
Destination port No.	Displays the port number on the other end of communication.			
Open error code	Displays the open error code.			
Fixed buffer transfer/reception error code	ⁿ Displays the fixed buffer send error code.			
Connection end code	n end code Displays the connection termination code.			
Protocol	Displays the UDP or TCP.			
Open system	Displays Active, Unpassive, Fullpassive or MELSOFT.			
Pairing open Displays whether pairing is made or not.				
Existence confirmation	Displays whether check is made or not.			

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6.5 Status of Each Protocol

[Purpose of setting]

Monitors the status of each protocol.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow Diagnostics] \rightarrow Diagnostics

 \rightarrow <Status of each protocol> tab

[Setting screen]

Ethernet diagnosis				×			
Target module setting -				IP address display ₁			
Module 🛛 👻			@ DE	с С нех			
Parameter status Error log Status of each connection Status of each protocol LED status Send (
	-IP packet	ICMP packet	TCP packet	UDP packet			
Total number of receives	523	22	453	0			
Total number of sends	815	22	797	0			
Total number of cancels due to Sum check error	0	0	0	0			
Total number of echo request receives		22					
Total number of echo reply sends		22					
Total number of echo request sends		0					
Total number of echo reply receives		0					
PING test COM.	.ERR off Starl	t monitor Stop	monitor	Close			

Item name		Description of setting
IP packet	Total number of receives Total number of sends Total number of cancels due to Sum check error	 Displays the total number of received IP packets. Displays the total number of sent IP packets. Displays the number of times the received IP packets were discarded due to a Sum check error.
ICMP packet	Total number of receives Total number of sends Total number of cancels due to Sum check error Total number of echo requests received Total number of echo reply sends Total number of echo request sends Total number of echo reply receives	discarded due to a sum check error.
TCP packet	Total number of receives Total number of sends Total number of cancels due to Sum check error	 Displays the total number of received TCP packets. Displays the total number of sent TCP packets. Displays the number of times when the received TCP packets were discarded due to a sum check error.
UDP packet	Total number of receives Total number of sends Total number of cancels due to Sum check error	 Displays the total number of received UDP packets. Displays the total number of sent UDP packets. Displays the number of times when the received UDP packets were discarded due to a sum check error.

6.6 LED Status

[Purpose of setting]

Monitors the LED light-up status on the Ethernet module front.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow Diagnostics] \rightarrow Diagnostics]

 \rightarrow <LED status> tab

[Setting screen]

arameter status	Error loa	Status of each o	onnection [s	Status of each pro	otocol LED sta	atus Send 💶
	olay status - NT.	c1 🔲				
		_				
E	R. 📃	C2				
COM.E	RR	СЗ 📃				
		C4				

Item name	Description of setting
LED display status	Displays the statuses of the INIT., ERR., COM. ERR and connection Nos. 1 to 4 LEDs.

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6.7 Send E-mail Information

[Purpose of setting]

Monitors the send e-mail information.

[Operating procedure]

Select [Ethernet settings] of FX3U-ENET-L Configuration tool \rightarrow Diagnostics \rightarrow Diagnostics

 \rightarrow <Send e-mail information> tab

[Setting screen]

Eti	hernet (liagnosis							×
	-Target r Modu	nodule setting Ile 0	-					Paddress di C C HE	
E	Error log	Status of eac	h connection	Status of each p	rotocol	LED status	Send e-r	nail informati	ion 🔸 🕨
Number of mails with normal 0 File attachment frequency						quency		0	
	end Number c errors	f mails ending	with	0	Server send frequency				0
								Clear inform	nation
	Error lo Numbe) er of Error log v	writes	0				Clear hist	ory
	No.	Error code	Command code	Ser	id To		Send	date	
	Latest								
	2								
	3								
	5								
	6								
	7								
	8								
									<u> </u>
	PING tes	t COM	I.ERR off	Start monitor	Sto	op monitor]		Close

Item name	Description of setting
Number of mails with normal end	Displays the number of mails that were completed normally.
Number of mails ending with errors	Displays the number of mails that were completed abnormally.
File attachment frequency	Displays the number of times attached files were sent.
Server send frequency	Displays the number of server send times.
Error log	Displays the number of times the error log was written to. The error log items are indicated below. - Error code - Command code - Send destination - Sending date/hour - Subject
Clear information button	Clears the count to zero.
Clear history button	Clears the error log write count to zero and clears all error history.

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6.8 PING Test

[Purpose of setting]

This test checks the Presence of the Ethernet module after it has completed initial processing on the Ethernet line or the existence of the specified IP address.

A PING test can be conducted either via an Ethernet or in direct connection with the PLC. The following can be checked by performing the PING test for the Ethernet module:

- · Whether a line has been properly connected to the test target Ethernet module
- · Whether the parameters for the Ethernet module have been correctly set
- · Whether the initial processing for the Ethernet module has been completed normally

POINT

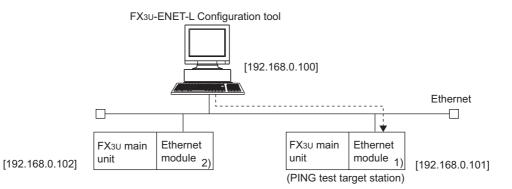
The PING test can be performed for an Ethernet module in the same Ethernet as the local station (same sub-net address.)

[Operating Procedure]

1) Executing the PING test via Ethernet

The example below explains how to execute the PING test for an Ethernet module in the same Ethernet by using FX3U-ENET-L Configuration tool.

Settings in FX3U-ENET-L Configuration tool are explained on the following pages.



- a) Setting the PING test target station
 - 1. Set the following Ethernet module parameters for the PING test target station through FX_{3U}-ENET-L Configuration tool.

Use default values for setting items other than the ones listed below.

Setting screen	Setting item	Setting de	escription
Setting screen	Setting item	FX 1)	FX 2)
Operational setting	IP address	[192.168.0.101]	[192.168.0.102]
Open settings	Open system	-	MELSOFT connection ^{*1}

*1. For 2) Open settings of Ethernet module settings, specify one or more connections having "MELSOFT connection" as open settings without fail.

ie.		v Help		soungaration roo	. (e		Ethernet open set					
7	2		199									
		Protoco	,1	Open system		Fixed buffer	Fixed buffer communication procedure	Pairing open	Existence confirmation	Host station Port No. (DEC.)	Transmission target device IP address	Transmission target device Port No. (DEC.)
Ĵ.	1		•		•	-	-	-	-			
	2		•		•	<u> </u>		-	-			
	-		_	MELSOFT connection	_			-	•			
ł	4		•		•	-	-	-	-			
							End	Cancel	4			

- 2. Write the parameters to the applicable station
- Turning off the power of the Ethernet module and then turning it on again or re-initializing the processing will complete the initial processing.
 (When the initial processing is completed normally, the [INIT.] LED of the Ethernet module lights up.)
- b) FX₃U-ENET-L Configuration tool connection destination (connecting to FX 2)
 Select [Ethernet setting]→ [Transfer setup] to display [PC side I/F setting] screen.

PC side I/F setting	2
Connecting interface Certail port/USB CRS-232C (include FX-USB-AWV/FX3U-USB-BD) CUSB(GOT Transparent mode) COM port Transmission speed 115.2Kbps	Ethernet board IP Address DEC. I92 168 0 101 Host Name
Time out	sec Connection test Cancel



1 c) Executing the PING test through FX3U-ENET-L Configuration tool INTRODUCTION 1. Select the PING test on the Ethernet diagnostics screen. Select [Ethernet settings] \rightarrow [Diagnostics] \rightarrow [PING test] to display [PING test] screen. 2. Perform the settings indicated below, then click the Execute button. The execution results of the PING test are displayed. (Example) The following shows the flow of the PING test when "4" is designated as the 2 transmission count. SYSTEM CONFIGURATION Time of the communication time check: 1 s Normal Normal Abnormal Norma response response response FX3U-ENET-L Configuration tool 3 Number of transmissions: 4 times Ethernet line Success/transmissions = 3/4 Ethernet module Normal response occurs when the PING test response is received within the time of the communication time check. 4 [PING Test Screen] SETTING THE ETHERNET PARAMETERS ΞĤ Make Ethernet diagnostics Related function Connection interface Ethernet-192.168.0.101 5 Transfer setup ONLINE FUNCTION PLC remote operation Diagnostics Close **PING test PING test** 6 Input item Input item ETHERNET DIAGNOST FUNCTION Address specification Address specification IP address input form IP address input form 101 101 192 168 192 168 0 IP address DEC C HEX IP address) IP address/Host name) IP address/Host name Ŧ S Setting Options Setting Options Default Display the host name Default Display the host name 7 32 bytes. 32 Specify the data size. Specify the data size **b**vtes APPENDIX Specify the time of the communication time check 1 seconds Specify the time of the communication time check. seconds. Specify the number of transmissions Specify the number of transmissions Specify the number of times • 4 times Specify the number of times -4 times Execute Execute Result Result Pinging 192.168.0.101 with 32 bytes of data: Pinging 192.168.0.101 with 32 bytes of data: Reply from 192.168.0.101: bytes=32 time=16ms TTL=250 Request timed out Request timed out Reply from 192.168.0.101: bytes=32 time=16ms TTL=250 Reply from 192.168.0.101: bytes=32 time=15ms TTL=250 Request timed out Reply from 192.168.0.101: bytes=32 time=15ms TTL=250 Request timed out Packets transmitted = 4, Received = 0, Lost = 4 Packets transmitted = 4, Received = 4, Lost = 0 Round-trip (ms) Min = 15, Max = 16, Avg = 15 Round-trip (ms) Min = 0, Max = 0, Avg = 0 0/4 Close 4/4 success/transmissions success/transmissions Close (Example of abnormal completion) (Example of normal completion)

[Display Contents]

Item name	Setting item	Description of item setting	Setting range/options
Address	IP address	Specify the IP address for the PING test target station.	(Target station IP address)
Address specification	IP address input form	Select the input format for the IP address.	Decimal/hexadecimal
opeomodien	Host name	Display the 10 latest inputs.	-
	Display the host name	Results are displayed using the host name corresponding to the IP address in the result display field.	-
Option	Specify the data size	Specify the size of the system data transmitted during the PING test. (Specify 1460 bytes or less for the Ethernet module.)	1 to 8192 bytes
specification	Specify the time of the communication time check	Specify the completion wait time for the PING test.	1 to 30 s
	Specify the number of transmissions	Specify the transmission count.	 Specify the number of times. Execute untill interruption.
Result		Display results of the PING test.	-
Success/transmiss	ions	Display the total packet transmission count and the number of successes during the PING test.	-

(Address specification)

The PING test target station (external device subject to the PING test) is specified by the IP address or the host name.

- 1. Specification using the IP address
 - · Select the input format for the IP address (select: Decimal or hexadecimal)
 - Specify the IP address of the external device according to the input format (decimal or hexadecimal).
- 2. Specification using the host name
 - Specify the host name of the external device set in the DNS server or the HOSTS file for the personal computer on which FX_{3U}-ENET-L Configuration tool is installed.
 - * The IP address can also be entered in the host name specification field.

(Option specification)

Set the details for the PING test. (No setting required if the default is used.)

- Display the host name. Select this to display the host name instead of the IP address for the PING test destination device in the result display field.
- 2. Specify the data size.

Specify the size of the system data to be transmitted during the PING test.

Input range: 1 to 8192 bytes (default: 32 bytes)

- * The Ethernet module will return a response of 1460 bytes if the PING test is performed when a data size of 1460 bytes or greater for transmitting to the Ethernet module is specified.
- Specify the time of the communication time check. Specify the response wait time for the PING test. Input range: 1 to 30 s (default: 1 s)
- 4. Specify the number of transmissions.
- Specify the number of times the PING test is to be performed.

Selection item	Description of item	Remarks
Specify the number of times	The PING test is performed for the number of specified times.	Transmission count : 1 to 50 times (default : 4 times)
Execute untill interruption	The PING test is performed until the interrupt button is pressed.	-

(Result)

Results of the PING test are displayed.

<When the test is completed abnormally>

Check the following, then perform the PING test again.

- How the Ethernet module is mounted.
- · Status of the connection to the Ethernet.
- · Contents of the parameters written to the PLC.
- · Operating status of the PLC (whether any errors have occurred).
- IP addresses set in FX3U-ENET-L Configuration tool and the PING test target station.
- · Whether the external device has been reset when the Ethernet module was changed.

(Success / transmissions)

The number of successes and the total packet transmission count from the PING test are displayed.

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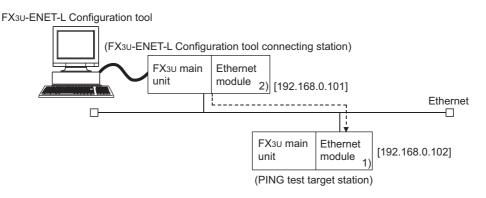
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2) Executing the PING test via PLC

The example below explains how to execute the PING test for another Ethernet module by using FX3U-ENET-L Configuration tool (GX Developer) connected to the FX3U. Settings in FX3U-ENET-L Configuration tool (GX Developer) are explained on the following pages.



- a) Settings on each FX3U-ENET-L station side
 - 1. Set the following Ethernet module parameters for each FX3U-ENET-L using FX3U-ENET-L Configuration tool.

Use default values for setting items other than the ones listed below.

Setting screen	Setting item	Setting de	escription
Setting screen	Setting item	FX 1)	FX 2)
Operational setting	IP address	[192.168.0.102]	[192.168.0.101]

2. Write the parameters to the applicable station.

The initial processing is completed when the PLC CPU restarts. (When the initial processing is completed normally, the [INIT.] LED of the Ethernet module lights up.)

 The initial processing is completed when the PLC CPU restarts. (When the initial processing is completed normally, the [INIT.] LED of the Ethernet module lights up.)



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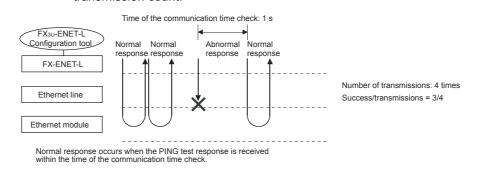
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- b) Executing the PING test through FX3U-ENET-L Configuration tool
 - 1. Select the PING test on the Ethernet diagnostics screen.
 - Select [Ethernet settings] \rightarrow [Diagnostics] \rightarrow [PING test] to display [PING test] screen. 2. Perform the settings indicated below, then click the Execute button.
 - The execution results of the PING test are displayed. (Example) The following shows the flow of the PING test when "4" is designated as the transmission count.



[PING test screen (via FX3U)]

Make Ethernet diagnostics	
Connection interface COM3-115.2Kbps Diagnostics Close	Related function Transfer setup PLC remote operation

PING test	×
Input item Connection Setup Execute station of PING Module No. Target of PING IP address I92 168 0 102 F DEC HEX	
Setting Options Specify the time of the communication time Default Specify the number of transmissions.]
Specify the number of times. 4 times. Execute Cancel	1
Result	1
Success. Success. Success. Success. Packets transmitted = 4, Received = 4, Lost = 0	
success/transmissions = 4/4 Close	

(Example of normal completion)

PING test	×
Input item Connection Setup Execute station of PING Target of PING IP address I92 168 0 102 F DEC	out form
Specify the number of transmissions.	Default conds.
Result Pinging 192.168.0.102:	Cancel
Timeout. Timeout. Timeout. Timeout. Packets transmitted = 4, Received = 0, Lost = 4	
success/transmissions = 0 / 4	Close

(Example of abnormal completion)

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[Display contents]

	Item name	Description of item setting	Setting range/option
Execute station of PING	Module No.	Specify the Ethernet module to execute the PING.	0 to 7
Target of	IP address	Specify the IP address of the PING test target station.	00000001H to FFFFFFEH
PING	IP address input form	Select the input format of the IP address.	Decimal/hexadecimal
	Specify the time of the communication time	Specify the response wait time for the PING test.	1 to 30 s
Option specification	Specify the number of transmissions	Specify the transmission count.	 Specify the number of times. Execute untill interruption.
Result	•	Display the result of the PING test.	-
success/transr	missions	Display the total packet transmission count and its success count during the PING test execution.	-

(Connection Setup)

- 1. Station where PING is executed.
- Specify the module No. of the Ethernet module to execute the PING test. 2. Target of PING
- 2. Target of PING Specify the IP address of the PING test target station (the External device subject to the PING test).
 - Select the input format of the IP address (select decimal or hexadecimal).
 - Specify the IP address of the PING test target station according to the input format (decimal or hexadecimal).

(Option specification, result, success/transmissions)

The information displayed is the same as that displayed when performing a PING test via the Ethernet. Refer to (2) in this section.

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7. Appendix

7.1 Printing parameters

7.1.1 Printing method

Print parameters set in FX₃U-ENET-L Configuration tool using a printer. Any of the following methods may be used to print.

- "File" of FX3∪-ENET-L Configuration tool → "Print"
- Click 🖨 of FX Configurator-EN.

The following operation is available to display the printing image.

"File" of FX3U-ENET-L Configuration tool \rightarrow "Print" \rightarrow Print preview

7.1.2 Printing example

Shown below is a printing example.

• Ethernet setting, operation setting, initial setting

Eth	lemet Setting				
Mod	Aule No. O]		
Ope	erational settings exist				
Ini	tial settings exist.				
Ope	en settings exist				
No	router relay parameter				
E-n	ail settings exist				
	nernet operation setting Nule No. 0				
1	Communication data code	Bin.c	ode Transmit.		
2	Initial timing	Alway	's wait OP EN (Do	Trans. STOP)	
з	IP address	192.1	.68. 0.101 (CO.A	\$8.00.65)	
4	Send frame	Ether	net (V2.0)		
5	TCP Ext. conf. setting	Use t	he Ping		
Eth	ernet initial setting				
Mod	lule No. 0		Set value	Default	In units
Mod			Set value 43	Default 60	In units *500ms
Mod	Timer setting				
Mod	Timer setting TCP ULP timer		43	60	*500ms
Mod	Timer setting TCP ULP timer TCP zero window timer		43 43	60 20	*500ms *500ms
Mod	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer		43 43 43	60 20 20	*500ms *500ms *500ms
Mod	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer		43 43 43 43 43	60 20 20 40	*500mus *500mus *500mus *500mus
Mod	Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP essembly timer		43 43 43 43 43 11	60 20 20 40 10	*500ms *500ms *500ms *500ms *500ms
Mod	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer	1.	43 43 43 43 43 11 43	60 20 20 40 10 60	*500ms *500ms *500ms *500ms *500ms *500ms
Mod	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer Dsti. Ext.Conf. start intva	1. r	43 43 43 43 11 43 	60 20 20 40 10 60 1200	*500ms *500ms *500ms *500ms *500ms *500ms *500ms
1	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer Dsti. Ext.Conf.start intva Dsti. Ext.Conf. intval.Time	1. r	43 43 43 43 11 43 	60 20 20 40 10 60 1200 20	*500ms *500ms *500ms *500ms *500ms *500ms *500ms *500ms
1	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer Dsti. Ext.Conf. start intva Dsti. Ext.Conf. intval.Time Dsti. Ext.Conf. Resends Tim	l. r er	43 43 43 11 43 	60 20 20 40 10 60 1200 20 3	*500ms *500ms *500ms *500ms *500ms *500ms *500ms *500ms
1	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer Dsti. Ext.Conf. start intva Dsti. Ext.Conf. intval.Time Dsti. Ext.Conf. Pesends Tim DNS setting	1. r er 1	43 43 43 43 11 43 IP address	60 20 20 40 10 60 1200 20 3 (C0.00.01.FE)	*500ms *500ms *500ms *500ms *500ms *500ms *500ms *500ms
1	tule No. 0 Timer setting TCP ULP timer TCP zero window timer TCP resend timer TCP end timer IP assembly timer Pesponse monitoring timer Dsti. Ext.Conf. start intva Dsti. Ext.Conf. intval.Time Dsti. Ext.Conf. Resends Tim DNS setting IP address of DNS server	1. r er 1 2	43 43 43 43 11 43 IP address 192. 0. 1.254	60 20 20 40 10 60 1200 20 3 4 (C0.00.01.FE) 4 (C0.02.02.FE)	*500ms *500ms *500ms *500ms *500ms *500ms *500ms *500ms

• Open setting, router relaying parameter setting

	2	(20.02)	
100 MAIL SOFT COM.	Image: Soft cent	2	10.65)
rnet router relay parameter	4		
met router relay parameter	Bthernet router relay parameter Module No. 0	3 ICP MILSOFI COA	
	Module No. 0	· ····· · ···· · ···· · ···· · ····	

· E-mail setting

	erne ule l	t e-mail setting No. O			
1	Inf	ormation of ethern	et module		
	Pas	sword	******		
	Mail Address		mail_@Mail.com		
2	Mai.	l server name			
[SMT	P Srv. IP Address	192.168. 0.101	. (CO.A8.00.65)	
	SMT	P Prot No.	25		
		P Server hentication	Method	POP before SMTP	
	POP Srv. IP Address		User Name		
			Password		
[192.168. 0.103	3 (CO.A8.00.67)	
	POP Port No.		110		
з	Sen	d mail address			
	1	mail@mail.com			
	2	No Setting			
[з	No Setting			
	4	No Setting			
[5	No Setting			
	6	No Setting			
	7	No Setting			
	8	No Setting			
	9	9 No Setting			

7.2 Connecting the Ethernet module compatible with MX Component

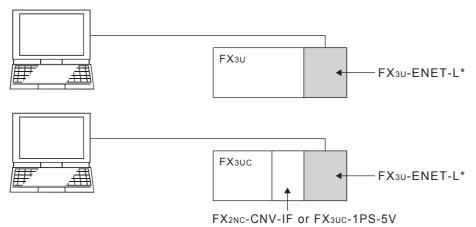
This section describes the connection of the Ethernet module compatible with MX component. For MX Component functions other than the ones described in this section, refer to the "MC Component operating manual" and the "MX Component programming manual."

7.2.1 System Configuration

1) Ethernet modules and their compatible PLCs.

Ethernet module	Compatible PLC	Protocol	Port No.
FX3U-ENET-L	 FX3U FX3UC (FX2NC-CNV-IF or FX3UC-1PS-5V is necessary.) 	TCP	No Setting

2) Connection of, FX3U or FX3UC PLC



* Select "MELSOFT connection" in the FX3U-ENET-L open system.

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1) I/F setting on PC side ication Setting Wizard - PC side Please select the PC side I/F "Ethernet board" Ethernet board • PC side I/F 4 Communication setting FX-ENET AJ71E71 AJ71QE71 QJ71E71 Connect module -"FX-ENET" FX-ENET CPU module 60000 ms Time out Cancel < Back Next > 2) I/F setting on PLC side ication Setting Wizard - PLC side Please select the PLC side I/F PLC side I/F Ethernet module • unication se tting FX-ENET -"FX-ENET" Module type Host(IP Address) Cancel < Back 3) When selecting "FX-E-NET-L" Setting Wizard - PLC side Please select the PLC side I/F PLC side I/F Ethernet module communication setting FX-ENET -Module type Host(IP Address)

Communication setting wizard for Ethernet communication

Host name (IP address)

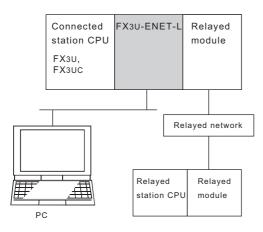
Cancel

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7.2.3 ATC control: ActFxENETTCP and ActMLFxENETTCP controls

The following table indicates the ActFxENETTCP, ActMLFxENETTCP and ActMLFxENETTCP control properties along with their default values.

1) Configuration



2) Property patterns

		Relayed Station CPU					
Connected Station CPU	Relayed Network	QCPU (Q mode)	QCPU (A mode)	QnA CPU	A CPU *1	FX CPU	
	MELSECNET/H						
	MELSECNET/10	Х	Х	х	х	х	
FX3U	MELSECNET/(II)						
FX3UC	Ethernet	Х	Х	Х	Х	Х	
	Computer link	Х	Х	Х	Х	Х	
	CC-Link	Х	Х	Х	Х	Х	

○ : Accessible (Property pattern within circle)

- \times : Inaccessible
- *1 : Including motion controller CPU

3) Property list

Property	Default Value	Property Patterns
ActCpuType	CPU_FX2NCPU (0x205)	CPU type corresponding to target station FX3U(C) Set the CPU_FX3UCCPU(0x208).
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module
ActTimeOut	30000	Any value specified by user in units of ms

7.3 Connecting the Ethernet module compatible with GX Developer

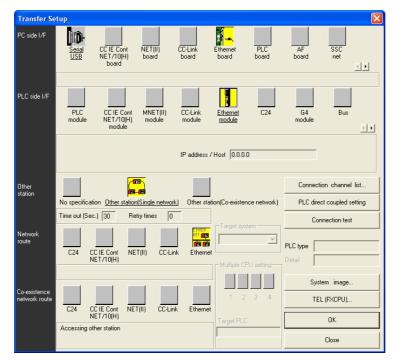
When designating the PLC to be connected via an Ethernet module using GX Developer, use the following settings.

Refer to the GX Developer manual for serial port/USB connection.

[Operating procedure]

Select [Online] of GX Developer. \rightarrow Transfer setup

[Setting screen]



(PLC side I/F detailed setting of Ethernet module)

PLC side I/F detailed s	etting of Ethernet mo	odule	
 IP address C Host Name 	192 168 0 101	IP input format	OK Cancel DEC. 💌

Item name ^{*1}		Description of setting		
PC side I/F	Ethernet board	Select this icon when connecting the PLC via an Ethernet module.		
PLC side I/F	Ethernet module	 Set details of the Ethernet module. Double-click this icon to display the "PLC side I/F detailed setting of Ethernet module" screen. Set the model name, IP address and IP input type of the connected PLC (Ethernet module). 		
Connection test		Click this button to confirm that when using the connection interface selected and set in "PC side I/F" and "PLC side I/F" communication has been established.		

*1. Refer to the GX Developer manual for any item not described here.

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Revised History

Date	Revision	Description
		First Edition
 1/2010	В	 Connecting the Ethernet module compatible with GX Developer (Section 7.3) was added.
 9/2010	С	 Microsoft[®] Windows[®] 7 added to the applicable Operating System of the personal computer.
		 The startup method from module configuration diagram of MELSOFT Navigator was added.

FX Configurator-EN-L

OPERATION MANUAL



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MODEL	SW-FXENETL-0-E
MODEL CODE	09R929

Effective September 2010 Specifications are subject to change without notice.