

# **Software Manual**

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# About this Manual

The texts, illustrations, diagrams and examples in this manual are only intended as aids to help explain the functioning, operation and use of the software described therin. Separate manuals are available for the programmable logic controllers of MITSUBISHIELECTRIC.

This manual is only intended for users with experience in handling automation and communication networks. The responsibility of the use of the software is with the user himself. If you have any questions regarding the installation and operation of the software described in this manual, please do not hesitate to contact your sales office or one of your MITSUBISHI ELECTRIC distribution partners. You can also obtain information and answers to frequently asked questions from our MITSUBISHI ELECTRIC website under www.mitsubishi-automation.com.

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# **Table of Contents**

1	Introduction	1
1.1	FDT/DTM Architecture	1
1.2	CommDTM for Q-Series Module	1
1.3	Before you start	2
2	Installation	3
2.1	System Requirements	3
2.2	Installing the CommDTM	3
3	Using the CommDTM	7
3.1	Adding the CommDTM to an FDT Container	7
3.2	Adding CommDTM to an FDT Container Project	8
3.3	Adding DeviceDTM to CommDTM	10
3.4	Context Menu	11
3.5	Going Online	14
3.6	Bus Scan	15
4	Transfer Setup	18
4.1	Configuring Transfer Setups	18
4.2	Transfer Setup Wizard	24
	PC Universal Serial Bus (USB) Interface	27
	PC RS232 Serial Interface	28
	PC Ethernet Board	29
	Modem Line Settings	<b>40</b> 41
	PC CC-Link IE Board	50
	PC MELSECNET/H Board	53
	PCMELSECNET/10Board	56
	PC CC-Link Board	59
	PC Q Series Bus	62
	PC GX Simulator	63 65
	PLC CPU Interface	65
	PLC C24 Interface	71
	PLC FX Extended Port	81
	PLC Modem	86
	PLC Ethernet Interface	90
	PLC G4 Module	100
	Network	113
	Other station	116
4.3	Communication Error Codes	121
4.4	Special Setups	193
	Communication with Multi-CPU Systems	193
	Restrictions with Q00, Q00J and Q01 CPUs	195

	Redundant CPUs	196
5	Troubleshooting	205
5.1	After updating the DTM catalogue the installed CommDTM is not listed	205
5.2	Fails to connect to module	205
6	Glossary	206
	Index	207

1

# 1 Introduction

The 'MX CommDTM-HART', which is described in this document, is a communication driver for integration of the Q-series HART module 026ME1AD8HAI-Q into an FDT/DTM application architecture.

### 1.1 FDT/DTM Architecture

The Field Device Tool (FDT) technology has the objective of allowing flexible combinations of software components from different vendors for configuration and diagnosis of devices with fieldbus interfaces. It is based on the concept of drivers known from the office world, where e.g. a printer with the appropriate driver can be accessed by any word processor without the word processor knowing the printer type or the printer knowing the word processor. The FDT concept is independent of the specific type of fieldbus and covers several of existing fieldbus protocols. The main components of the FDT architecture are:

- the 'Communication Device Type Manager' (CommDTM) is a specialized form of a 'Device Type Manager' (DTM), which provides a communication channel for other DTMs. A DTM for a HART field device for example requires access to the HART network, to which the slave is attached. The access could be via a PLC HART module, to which the field device is connected. Each type of network access requires a different CommDTM. The DTM of the field device however is the same in all scenarios and does not require to know how the network is accessed. It passes its HART protocol requests to the underlying CommDTM via a standardized interface.
- the **DeviceDTM** contains the user interface with configuration and diagnostic functions for a specific field device. To to communicate with the corresponding device it requires a CommDTM, to which it can pass the communication requests via a standardized interface.
- the **FDT container** is part of a standalone application, called the FDT framework, and provides the runtime environment, in which both the CommDTM and the DeviceDTM are executed. A DTM can usually not run on its own. The FDT container also offers other services like printer access, project saving and loading etc.

CommDTMs can be layered to represent a communication network consisting of several layers with different protocol. One CommDTM can for example provide access to a PROFIBUS master via Ethernet, while another CommDTM covers the communication between the master and a specific slave. The DeviceDTM for a module of that slave is then connected to the last CommDTM, using a standardized interface, which hides the underlying layers. This modular structure makes the DeviceDTM independent of changes in the communication layer. CommDTMs, which serve as a bridge between different protocol layers, are typically called GatewayDTMs.

# 1.2 CommDTM for Q-Series Module

The MELSOFT 'MX CommDTM-HART' is a 'Communication Device Type Manager' (CommDTM), conforming to the Field Device Tool (FDT) specification version 1.2. It can be used with the 026ME1AD8HAI-Q module for the MELSEC Q-series PLCs. The CommDTM handles the connection to the PLC and transfers the HART requests, which are generated by a DeviceDTM, to the 026ME1AD8HAI-Q module.

It cannot be started as a stand-alone application, but must be loaded into a FDT frame application like PACTware™.

The 026ME1AD8HAI-Q module provides access to HART field devices from either the PLC program or from PC-based applications like the HART 'Device Type Manager' (DTM). It contains eight channels with each channel providing a point-to-point connection between the Q-PLC and the HART field device based on the 4-20mA current loop physical layer. Therefore a

maximum of eight field devices can be connected.

# 1.3 Before you start

Before using the CommDTM you must have installed an FDT framework application compatible with FDT specification 1.2 and should be familiar with its operation.

For information on the 026ME1AD8HAI-Q module, please consult the corresponding hardware manual.

3

# 2 Installation

### 2.1 System Requirements

The MX CommDTM-HART provides communication channels for DeviceDTMs to communicate with HART field devices, which are connected to a 026ME1AD8HAI-Q intelligent function module. The CommDTM uses Easysocket for communication with the PLC. The network connection can be any type, which is supported by Easysocket and the transfer setup of the CommDTM.

### **Minimum Hardware Requirements**

- Pentium II 350 Mhz processor (for Vista: 1 GHz processor)
- 128 MB RAM for Microsoft ® Windows 2000
- 256 MB RAM for Microsoft ® Windows XP
- 1 GB RAM for Microsoft ® Windows Vista
- VGA compatible graphics adapter
- 17"/43 cm diag. VGA monitor
- At least 200 MB free hard disk space
- CD-ROM drive
- interface for communication with the PLC system

#### **Software Requirements**

MX CommDTM-HART is a 32-bit software that runs on the following operating systems

- Microsoft 
   Windows 2000 (Service Pack 2 or later installed)
- Microsoft ® Windows XP Home or Professional Edition
- Microsoft ® Windows Vista Home (or higher)

The CommDTM can only be used within an FDT container application. There are several FDT container applications available from different vendors. For more information see the FDT Group.

# 2.2 Installing the CommDTM

The setup program of the CommDTM copies the software to the installation directory and registers the COM interfaces implemented by the DTM with the operating system.

To start the installation, proceed as follows:

- 1. Insert the installation CD-ROM into your CD-ROM drive.
- 2. If you have 'Autorun' enabled for the drive, the setup should start automatically.
- 3. If the setup is not started automatically, please locate the 'setup.exe' file and execute it.
- 4. If you see the following message on a Windows ® Vista operating system, please select 'Allow'





5. When the setup.exe is started, the 'welcome' page is displayed.

4

Installation

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Cancel

by pressing 'Install'.



10. When the installation has been completed, the user is informed and can now close the setup program by pressing 'Finish'.

9. Start the installation of the software

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Cancel



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# **3 Using the CommDTM**

The MX CommDTM-HART can only be used within an FDT frame application, which conforms to FDT specification 1.2. The following description uses the FDT application PACTware<sup>™</sup> as an example for an FDT frame application. The operation in other FDT frame application may differ in certain aspects.

# 3.1 Adding the CommDTM to an FDT Container

In order to use the CommDTM within an FDT container, it must be added to the specific device database of the container. While the exact handling differs for each FDT application, in general each FDT container provides a menu item or button with which the user can start a scan of the Windows registry for installed DTMs. After the scan the FDT container lists all DTMs found and the user can add these to the database of the container.

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		Hauser	tion 🎦 MX CommDTM-PBDP	Profibus DP/V1	Mitsubishi Electric Europe b.v.	FDT	2.0 / 2009-01-01	
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		ICS GmbH						
		Mitsubishi Electric Corporation						
		PACTware Consortium e.V.						
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		E Softing AG						
		H. B3 VEGA Grieshaber KG						
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	63	Error monitor						
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	• 1							

The MX CommDTM-HART is added to the device database with the following properties:

Device Name	MX CommDTM-HART
Vendor	Mitsubishi Electric Europe B.V.
Protocol	HART
Version	1.0

# 3.2 Adding CommDTM to an FDT Container Project

1. start a new FDT project and select the menu item for adding devices to the project

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Device tag Address () () () Devic HOST PC Connect Disconnect Add device	Device catalog
6 Error monitor	
CNONAME> Administrator	

#### 2. select the CommDTM from the device catalog of the FDT container

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	Show all devices	🙀 VEGA E	ithernet	VVO Protocol	VEGA Grieshaber KG	FDT	1.55.0.00 / 2008-09	1
Driver ME1AD8HAI-Q HART Communication Module				9				
<b>T</b>						ОК	Cancel	
5 Error monitor								_
	<noname></noname>	Administrator	,					

3. the CommDTM is appended to the device list of the FDT project. By double-clicking the device node or by selecting the item 'Parameter' from its context menu, the transfer settings can be edited.

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<u>File E</u> dit <u>Vi</u> ew <u>P</u> roject	<u>D</u> evice E <u>x</u> tras <u>Wi</u> ndow <u>H</u> elp		
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4. the user must enter the parameters for the connection to the PLC and the starting I/O number of the module within the PLC rack.

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# 3.3 Adding DeviceDTM to CommDTM

After adding the CommDTM to an FDT container project, DeviceDTMs can be added to the project. Each channel of the CommDTM is able to connect to a single HART device. By using the bus scan the user can check which device is connected to which channel.

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Disconnect						ĝ
Load from devi						
Store to device 7 All Devices	All Devices					-
Parameter Device	Device A	Protocol	Vendor	Group	Device Version	
Measured value	Generic HART DTM	HART	ICS GmbH	DTM spec	4.0.1 / 2007-11-12	-11
Simulation	🔣 iTemp / TMT 182 / V1.1	HART	Endress+Hauser	Temperat	1.4.160.356 / 2008-11-26	
Diagnostics	VEGADIF 55 HART V2.01	HART	VEGA Grieshaber KG	Pressure	1.4.129.244 / 2006-12-11	-11
Direlau chiene	VEGADIF 55 HART V2.10	HART	VEGA Grieshaber KG	Pressure	1.4.129.244 / 2006-12-11	_
Channels						- 11
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Up-/Download-						- 11
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Additional <u>func</u>						- 11
Add device Vend   Group Type Prot						- 11
Delete device 🗌 Show all devices						
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	DD=vers17=200=2=2					
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DE Error monitor						
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After pressing the **OK** button the FDT container opens the channel selection dialog to assign the DeviceDTM being inserted to a physical channel of the CommDTM. If another DeviceDTM is already attached to the channel, the FDT container displays an error message.

	Channel	selection	×
	Channel	Туре	assigned to
	1	HART Channel1	
	2	HART Channel2	
	3	HART Channel3	<0>[HART Channel3] iTemp / TMT 182 / V1.1
	4	HART Channel4	
	5	HART Channel5	
	6	HART Channel6	
	7	HART Channel7	
	8	HART Channel8	
	_		
ļ	•		
			OK Cancel

**Note:** some FDT container applications allow creating a network topology by scanning the communication channels of the CommDTM for connected devices.

### 3.4 Context Menu

The FDT container provides a context menu for DTM nodes in its 'Project' tree. Most entries are predefined by the FDT container. A DTM can extend its context menu with specific items. The available menu items differ between the 'Online' (i.e. 'Connected') and the 'Offline' (i.e. 'Disconnected') state of the DTM.

### 'Offline' Context Menu

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Ř	D=	Disconnect				
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		Display channels				<b>~</b>
		Channels •				
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### 'Online' Context Menu

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		Additional <u>functions</u>		<u>C</u> ompare offline			
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	<u>_</u>	D <u>el</u> ete device		Set value			
		Properties <mx commdtm-hart="">MX CommDTM-HART</mx>		<u></u>			
				ADOUT MX COMMDTM-HART		TM	
				Update channel state	V	$\boldsymbol{\varphi}$	
				Activate channels		HART Channel 1 activated	
			Ð	Write device data to <u>fi</u> le		HART Channel 2 activated	
			_		~	HART Channel 3 activated	
					~	HART Channel 4 activated	
•						HART Channel 5 activated	
<b>6</b> Erro	or ma	nitor				HART Channel 7 activated	
	*	<li><noname> Administrator</noname></li>				HART Channel 8 activated	

#### **Update Channel State**

When this menu item is selected, the CommDTM checks the activation status of all HART channels and updates the state of the items in the 'Activate channels' submenu.

#### Activate Channels → HART Channel <n> Activated

The HART communication must be activated for each channel, before the DTM can communicate with the HART field device attached to the respective channel. By default HART communication is turned off.

To activate HART communication for a specific channel either

- set the channel-specific flag in the buffer memory of the 026ME1AD8HAI-Q module
- connect to a field device, which will automatically activate HART communication if it is not yet activated
- select the corresponding 'HART channel <n> activated' menu item

A 'check' mark in front of the menu item representing the channel signals that HART communication is enabled for the corresponding channel.

HART communication is disabled	HART Channel 3 activated
HART communication is enabled	HART Channel 3 activated

**MX CommDTM-HART** 

Please select 'Update channel state' first to make sure that the 'check' mark reflects the actual state of the channel.

**Note**: please be aware that HART devices, which are connected to a channel of the 026ME1AD8HAI-Q module, cannot be detected e.g. during a topology scan, unless HART communication has been activated for that channel.

### About... Function

The menu item 'About MX CommDTM-HART' displays version and copyright information.



#### **Online Manual**

This menu item opens the online help.

### 3.5 Going Online

14

To actually connect a DTM to the device the item '**Connect**' is selected from the context menu of the DTM node. The selected DTM and all underlying DTMs are connected to their respective devices.



When the device is connected, the online functions in the menu of the respective DeviceDTM are enabled and the offline functions are disabled.

### 3.6 Bus Scan

The CommDTM supports scanning for devices connected to the 026ME1AD8HAI-Q. To start the bus scan select the appropriate menu item from the context menu of the CommDTM.



PACTware			_0 ×
<u>File E</u> dit <u>Vi</u> ew <u>Project D</u> evice E <u>x</u> tras	: <u>Wi</u> ndow <u>H</u> elp		
] 🗅 🥔 🥔 🚍 🗖 🕸 🕸 🛛 🔛 🏹	\$ \$ \$ \$ \$		
Project 🕂 🕂 🗸	MX CommDTM-HART # Scanlist		4 Þ 🗙 🏹
Device tag Addres: 🕕 🎝 🕻 Devi	Chappel 3 (HABT Chappel3)		R
B HOST PC	1 (HART Channel1)		vice
💢 MX CommDTM-HA 📝 🏠 🔭 N	Source data 2 (HART Channel2) 3 (HART Channel3)		
	HARTDEV 4 (HART Channel4)	Description Value	<u></u>
	6 (HART Channel6)	MANUFACTURERID 17	
	7 (HART Channel7) 8 (HART Channel8)	DEVICETYPEID 200 SHORTADDRESS 0	
		<[	
x			
<b>6</b> Error monitor			
NONAME>	Administrator		

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The FDT container application PACTware<sup>™</sup> supports the bus scan only for the selected channel. Some other FDT framework applications are able to scan all channels in a single run.

**Note:** if the menu item 'Scan list' is not displayed in PACTware™, the PACTware™ 'HART Scan Add-in' is probably not loaded. In order to enable scanning for HART devices this PACTware™ addin must be loaded via the item '**Extras/Add-Ins**' of the PACTware™ application menu.

PACTware					
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	Add-in	Manufacturer	State	HART Scan Add-In	
	Clipboard Debug monitor Device catalog Error message dialog	PACTware Consortium e.V. PACTware Consortium e.V. PACTware Consortium e.V. PACTware Consortium e.V. PACTware Consortium e.V.	loaded loaded loaded / protected loaded / protected	↓ Load at start	
	HART Scan Add-In Plant view	PACTware Consortium e.V. PACTware Consortium e.V.	loaded	Load	Unload
	Project view TCI Support Addin Up-/Download manager VECA Projektascictent	PACTware Consortium e.V. PACTware Consortium e.V. PACTware Consortium e.V. VEC0 Griechaber KG	loaded / protected unloaded loaded	Info	Options
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6 Error monitor	1				
A 10 x 10 x	NONAME> Administr	ator			

# 4 Transfer Setup

18

# 4.1 Configuring Transfer Setups

#### **Transfer Setup Selection**

The main dialog of the transfer setup provides access to the configured transfer setups. The user can

- add new setups
- remove existing setups
- modify a setup
- select a setup to be used
- test the communication with a selected setup

The network architecture and settings are displayed with bitmaps representing the network nodes. The parameters associated with a node are listed underneath the respective bitmap.

Select transf	er setup	Qn serial	•	Configure	Comm. <u>T</u> est
Starting [/O N	Number	0 <u>R</u> ead fro	om PLC		
	Serial				
PC I/F Time-out	COM1 1000 ms	CPU type Transmission speed Control Multiple CPU	Q02(H) 115200 bps DTR or RTS None		
				Cancel	OK

Name	Description	Choices / Setting range	Default
Select transfer setup	lists the names of existing transfer setups and the functions ' <u>New</u> ' and ' <u>Rename/Remove</u> '	1-32 characters	name of selected transfer setup
<u>Configure</u>	edit the selected transfer setup	-	-
Comm. Test	test the connection to the PLC	-	-

			)
Name	Description	Choices / Setting range	Default
	respectively to the module		
Starting I/O Number	starting I/O number respectively slot of the module in the PLC	0x0 - 0xFE0 (Q, QnA, A) 0 - 7 (FX)	0
Read from PLC	read the modules installed in the PLC	-	-

Pressing the **OK** button closes the dialog and uses the settings of the currently selected transfer setup to the device, for which the transfer setup has been opened. If the dialog is closed by pressing the 'Cancel' button, the transfer settings of the device remain unchanged.



**Note:** please notice that devices using the same transfer setup name are not automatically updated. You need to select each device separately, open the transfer setup dialog and reassign the settings to the device.

### **New Transfer Setup**

For defining a new transfer setup, the user selects the entry '<**New...**>' from the selection list.

Select transfer setup	<new></new>	Con <u>fi</u> gure	Comm. <u>T</u> est
	·		

If the maximum number of transfer setups (default is max. 32 setups) has been reached, a message is displayed.

MX Trans	ifer Setup
♪	The maximum number of setup entries has been reached.
	ОК

In this case the user must either delete a setup or modify an existing one.

If there is sufficient space for a new transfer setup, a dialog prompts the user to enter the name of the new transfer setup.

The user can select an existing transfer setup, from which the settings are copied, or select < **Default**>.

<sup>19</sup> 

20

New Setup	×
Name	
TransferSetup3	
Copy Settings from	
TransferSetup1	•
TransferSetup1 TransferSetup2	
<default></default>	

Name	Description	Choices / Setting range	Default
Name	name of new transfer setup	1-32 characters	TransferSetup <n></n>
Copy Settings from	uses the current settings of the selected setup for the new setup	<ul> <li>existing transfer setup</li> <li>names</li> <li><default></default></li> </ul>	selected setup

The name assigned to the transfer setup must meet the following restrictions

- must be unique
- must not be empty
- must not exceed 32 characters in length
- must not start or end with blanks (automatically removed)

### Rename / Remove Transfer Setup

The user can change the name of existing setups or remove them, if they are no longer used.

Select transfer setup	<rename remove=""></rename>	Configure	Comm. <u>T</u> est
-----------------------	-----------------------------	-----------	--------------------

When the entry '<**Rename/Remove...**> is selected, a dialog is displayed, which lists the existing transfer setups.

name/Remove Setups	
Transfer Setups	Remove
serial com port	
new usb ethernet connection	Rename
	Cancel
	ОК

Pressing the '**Remove**' button deletes the currently selected setup. Pressing the '**Rename**' button or double-clicking a setup name in the list opens an editor for the name within the list.

ename/Remove Setups	2
Transfer Setups	Remove
serial com port new usb ethernet connection	Rename
	Cancel
	ОК

A setup name is rejected, if it does not meet the requirements for setup names.

#### **Editing an Existing Transfer Setup**

Pressing the 'Configure' button opens the transfer setup wizard for the selected transfer setup.

#### **Replace Transfer Setup Dialog**

When the transfer setup dialog is opened, it imports the transfer setup of the currently selected device into the local transfer setup database. This database is kept in the Windows<sup>™</sup> registry. If the registry already contains a setup with the same name as the one of the selected device, the settings in the registry are compared with the settings used by the device. In case the settings differ, the user is asked, whether the local settings should be overwritten with the settings from the device.

MX Trans	fer Setup
?	Should local transfer settings be overwritten with the settings from the project?
	Yes No

Selecting '**Yes**' causes the transfer settings from the device to overwrite the settings currently kept in the registry under the given transfer setup name. Otherwise the settings of the transfer setup in the registry remain unchanged.

If no setup with the name exists, a new setup is added to the database. In case there is insufficient space for a new setup, the following message is displayed.

MX Trans	ifer Setup	×
2	There is no free buffer to import the transfer set Do you want to select an entry to be overwritter	up. 1?
	Yes No	

If the user selects 'Yes', a list of existing setups is displayed. The user can select a setup in the

list, which is overwritten with the new settings.

Select a setup to be replaced	×
Transfer Setups	
new usb serial com port ethernet connection	
melsecNet	Cancel
	ОК

### **Connection Test**

The '**Comm. Test**<sup>,</sup> button uses the settings of the selected transfer setup to connect to the module in the PLC. If the connection can be established, a success message is displayed.

MX Trans	ifer Setup 🗙
i)	ME1AD8HAI-Q module found at starting I/O no. 0x20
	OK

If the connection to the PLC fails, the <u>Easysocket error code</u> is displayed, together with an explanatory message.

MX Trans	fer Setup 🗾
	Failed to connect to PLC (error code 0x1808201)
•	Cannot communicate with the PLC. Execute again after checking the connections with the PLC. Please check power module, CPU module, I/O module, Intelligent module, Network module, base, cable. Please check the manual and other documentation.
	ОК

If the connection attempt to the PLC succeeds, the connection to the module with the given starting I/O number is established. If this connection to the module fails, the following error message is displayed:



### Read Module List From PLC

If the connection to the PLC can be established using the currently selected transfer setup, the list of modules installed in the PLC is displayed.

odules in PLC		e	×
	1	1	
Slot	Starting I/O number	Module Typename	
00	0x000	QJ71E71-100	
01	0x020	026ME1AD8HAI-Q	
02	0x040	QJ71PB92V	
03	0x060	QJ71PB92D	
	Г		
		OK Cance	╝┛┛┛
	Slot 00 01 02 03	Slot         Starting I/O number           00         0x000           01         0x020           02         0x040           03         0x060	Slot         Starting I/O number         Module Typename           00         0x000         QJ71E71-100           01         0x020         026ME1AD8HAI-Q           02         0x040         QJ71PB92V           03         0x060         QJ71PB92D

Name	Description		Choices / Setting range	Default
Modules in PLC	Column	Contents		
	Slot	0-based index of the PLC slot		
	Starting I/O number	offset of the module-specific X/Y devices (empty for FX)		
	Module Type name	identifier of module type retrieved from GXDP product database		
ОК	Close dialog and save selected module type and starting I/O number			Default button
Cancel	Close dialog a	nd discard selection		-

If the user selects a supported module type, the starting I/O number respectively slot of the selected module is used.

### 4.2 Transfer Setup Wizard

The transfer setup is used for the configuration of communication links from the PC to a PLC system.

The settings for a communication link between PC and PLC are entered in a set of dialogs. These are organized as a series of sequential pages. Moving between adjoining pages is done via the '**Back** ' and '**Next**' buttons.



Screen Name	Description
	set the connected network between the IBM-PC/AT
Wizard 1)	compatible and connected station (PLC CPU and module).
Wizard 2)	set the connected station (PLC CPU and module).
Wizard 3)	set the relayed network between the connected station (PLC CPU and module) and relayed station (PLC CPU and module).
Wizard 4)	set the relayed station PLC CPU.
Wizard 5)	add a comment

Start the communication setting wizard.

Communication Setting Wizard - PC side		×
	Please select the PC side I/F PC side I/F Serial Communication setting Connect port COM1 Image: All Ports Time out 1000 ms	
Cancel	Back Next >	

The items shown in the 'Communication setting' box depend on the selected PC side interface. Choose the 'PC side I/F' to communicate with. The available interface types are listed below:

24

25

'PC side I/F' Selection	Communication Type
<u>USB</u>	USB communication
<u>Serial</u>	Computer link communication, CPU COM communication, CC-Link G4 communication
Ethernet board	Ethernet communication
Modem	Modem communication
CC-Link IE board	CC-Link IE communication
MELSECNET/H board	MELSECNET/H communication
MELSECNET/10 board	MELSECNET/10 communication
CC-Link board	CC-Link communication
<u>Q Series Bus</u>	Q Series bus communication
GX Simulator	GX Simulator communication
CPU board	CPU board communication

After setting the parameters continue by pressing the 'Next' button.

Communication Setting Wizard - PLC side				×
	Please select the PLC si PLC side I/F CPU m Communication setting CPU series Q CPU type QO Transmission speed 116 Control DT	side I/F nodule	bps	
Cancel	Back Next >			

The contents of the 'PLC side I/F' page depend on the selected PC side interface. Set all available parameters and click the **Next** button.

Communication Setting Wizard - Network			×
	Please select the Networ	rk	
	Station type	Other station	-
	Network	MELSECNET/10(H)	7
	Niekowski wrate		-
Cancel	< Back Next >		

The contents of the 'Network' page depend on the selections in the previous pages. Set all available parameters and click the **Next** button.

**Note**: when 'Modem' has been selected as 'PC side I/F', the line setting screen appears next. For details of the line setting screen refer to '<u>Modem Line Settings'</u>.

Communication Setting Wizard - Other s	ation		×
	Please select the	Other station	
	⊢ Other station setting	g	
	CPU series	A	
	CPU type	Q02(H)-A	
	Network No	1	
	Station No		
		· ·	
Cancel	< Back Ne:	xt >	

The contents of the 'Other station' page depend on the selections in the previous pages. Set all available setting items and click the **Next** button.

Communication Setting Wizard - Finished	đ	×
	The Communication wizard has finished collecting information. Please Finish to build the logical station number.	
	Comment	
Cancel	< Back Finish Online Test	

You can enter an optional comment of up to 32 characters for the connection.

When pressing the '**Online Test** ...' button, the wizard tries to establish a connection to the target system with the current settings.

Pressing the Finish button stores the current settings and closes the wizard.



#### Note:

The enclosed sample programs should serve as examples when writing the user program. They must be modified to match the specific application requirements. The use of code taken from the sample programs is done at the customer's own risk.

### 4.2.1 PC Universal Serial Bus (USB) Interface

Configure a connection from an USB port of the PC to a PLC.

### PC side USB parameters

Parameter	Values	Description
Time out	1 - 2147483647	communication timeout in milliseconds

	Please select the PC side I/F PC side I/F Communication setting Time out 1000 ms
--	--

For a description of the editable parameters on the page see <u>PC side USB parameters</u>. The connected interface on the PLC side is a <u>CPU module</u>.

### 4.2.2 PC RS232 Serial Interface

**MX CommDTM-HART** 

28

Configure a serial connection to a PLC.

### PC side serial parameters

Paramete	r	Values	Description	
All Ports			if cleared, only one of the serial interfaces actually installed in the PC can be selected. if checked, any COM port can be selected. This may be useful when defining a configuration for a different PC.	
Connect	'All Ports' cleared	COM1 - COMn	selects the serial interface in the PC from a list of serial interfaces found on the PC	
port	'All Ports' checked	COM1 - COM256	selects the serial interface in the PC from a list of possible serial interfaces	
Time out	-	1 - 2147483647	communication timeout in milliseconds	

Communication Setting Wizard - PC	Please select the PC side I/F PC side I/F Serial Communication setting Connect port COM1 COM1 All Ports Time out 1000 ms	X
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PC side serial parameters</u>. The connected interface on the PLC side can be

- a <u>CPU module</u> (either <u>RS422</u> or <u>USB</u> interface)
- a <u>C24 module</u>
- a G4 module
- an FX extended port

### 4.2.3 PC Ethernet Board

Configure the PC side ethernet interface

# PC side Ethernet parameters

Parameter	Values	Description
Connect module	AJ71E71, AJ71QE71, QJ71E71, GOT, FX-ENET(- ADP), CPU module	type of PLC ethernet module
		connection-less (UDP) or connection-oriented (TCP) protocol not for GOT and FX-ENET(-ADP) modules
Protocol	UDP, TCP	Precautions for use of TCP protocol (a) Provide an interval longer than the sequence scan time of the Ethernet module loaded station from when the Open method is executed until the Close method is executed.

Parameter	Values	Description
		(b) Provide an interval of at least 500ms from when the Close method is executed until the Open method is executed again.
Packet type	ASCII, Binary	selects ASCII or binary packet type for communication only for AJ71E71 and AJ71QE71 modules
Network No	1 - 239	network number of the E71 ethernet module, the PC is connected to. The E71 network number is configured in the 'Network Parameters' of the PLC settings. only for AJ71QE71(UDP) and QJ71E71
		modules
Station No.	1 - 64	station number of the PC side interface. This number can be freely chosen, but must be unique within the network specified by the network number.
		only for AJ71QE71(UDP) and QJ71E71 modules
Port No.	0 - 65535	free UDP port number on the PC side for data sent by the PLC. Port numbers below 1025 should not be used.
		only for UDP protocol and for GOT module
Time out	1 - 2147483647	communication timeout in milliseconds

#### Note:

When connecting from several MELSOFT applications to the same E71 module, make the following settings:

(a) set the protocol of the communication setting wizard screen to 'UDP'.

(b) set "SW2" of the communications setting switches of the E71 module to OFF (binary).

The following restrictions apply to simultaneous connections from multiple PCs to the same E71 module using the TCP/IP protocol:

for Q series-compatible E71 modules (except QJ71E71-100) the first five digits of the serial number must be '02122' or later and the function version must at least be 'B'
 select 'MELSOFT connection' in the Ethernet parameter 'open system' (via the network parameters in GID/GD)

#### Note:

Connecting to the PLC CPU through Ethernet depends on the correct PLC CPU status:
1) TCP selected: the target PLC CPU must be in RUN mode
2) UDP selected: the target PLC CPU must have been in RUN mode once

30



**Note:** When a QnA-, AnU-, Q- (A mode) or motion controller CPU (via E71) are accessed, the device range is equivalent to that of an AnA CPU.

# AJ71E71

Communication Setting Wizard - PC sic	le		×
	Please select the PC side I/F Communication set Connect module Protocol Packet type	PC side I/F Ethernet board ting AJ71E71	
	Port No Time out	5001 1000 ms	
Cancel	Back	lext ≻	

For a description of the editable parameters on the page see <u>PC side Ethernet parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering the address of the PLC ethernet module.

### **TCP** connections

Connected Station CPU			Relaye	d Statio	n CPU			
QCPU (A mode)	QnA CPU	A CPU *1	Relayed Network	QCPU (Q mode)	QCPU (A mode)	QnA CPU	ACPU *1	FX CPU
*2	*2	*2	MELSECNET/H	х	х	х	х	х
		MELSECNET/10	х	0	*2	о	х	
			MELSECNET(II)	х	0	*2	о	х
			Ethernet	х	х	х	x	х
			Computer link	х	х	х	x	х
			CC-Link	х	х	х	x	х
			CC-Link IE	х	х	х	x	х

o: Accessible

x: Inaccessible

32

\*1 : Including motion controller CPU

\*2 : Operates as the one equivalent to AnACPU

### **UDP** connections

Connected Station CPU			Relaye	d Statio	on CPU			
QCPU (A mode)	QnA CPU	A CPU *1	Relayed Network	QCPU (Q mode)	QCP U (A mode )	QnA CPU	ACPU *1	FX CPU
	*2	*2	MELSECNET/H	х	х	х	х	х
			MELSECNET/10	х	0	*2	0	х
			MELSECNET(II)	х	0	*2	0	х
			Ethernet	х	х	х	х	х
			Computer link	х	х	х	х	х
			CC-Link	х	x	х	х	х
			CC-Link IE	х	х	х	х	х

o: Accessible

x: Inaccessible

\*1: Including motion controller CPU

\*2 : Operates as the one equivalent to AnACPU


		Setting					
			IP	UDP/IP			
Switch *1		When ASCII packet is used	When binary packet is used	When ASCII packet is used	When binary packet is used		
Operation mode setting switch			0 (onl	ine)			
	Line processing selection for	OFF					
	TCP time-out error						
Communicati ons condition	Data code setting	ON (ASCII code)	OFF (binary code)	ON (ASCII code)	OFF (binary code)		
setting switches	CPU communications timing setting)	ON					
	Initial timing setting	OFF					

\*1: For switch numbers, refer to the E71 module manual.

# AJ71QE71

Communication Setting Wizard - PC side			
	Please select the PC side I/F Communication set Connect module Protocol Network No Station No Port No Time out	PC side I/F Ethernet board ting AJ71QE71 UDP 1 2 5001 1000 ms	
Cancel	Back I	Next >	

For a description of the editable parameters on the page see <u>PC side Ethernet parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering the address of the PLC ethernet module.

### **TCP** connections

#### MX CommDTM-HART

34

Connected Station CPU	ected Station Relayed Station CPU					
QnACPU	Relayed Network	QCPU (Q mode)	QCPU (A mode)	QnA CPU	ACPU *1	FX CPU
	MELSECNET/H	x	х	x	x	x
	MELSECNET/10	х	х	0	х	x
	MELSECNET(II)	x	х	x	x	x
	Ethernet	x	х	x	х	х
	Computer link	x	x	x	х	x
	CC-Link	x	x	x	х	x
	CC-Link IE	x	x	x	х	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### **UDP** connections

Connected Station CPU		Relayed	d Station	CPU		
QnACPU	PU Relayed Network		QCPU (A mode)	QnA CPU	ACPU *1	FX CPU
	MELSECNET/H	x	x	x	х	x
	MELSECNET/10	x	x	0	x	x
	MELSECNET(II)	x	x	x	x	x
	Ethernet	x	х	0	x	х
	Computer link	x	х	0	x	х
	CC-Link	x	х	x	х	х
	CC-Link IE	x	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU



			Setting	
		TCF	P/IP	UDP / IP
Switch (Switch Number)		When ASCII	When binary	
		packet is used	packet is used	When binary packet is used
Operation m	node setting switch		0 (online)	
	Line processing selection for	OFF		
	TCP time-out error (SW1)			
		ON (ASCII	OFF (binary	
Communications	Data code setting (SW2)	code)	code)	As set by user
condition setting switches	Automatic start mode			
	(SW3)	OFF		ON
	(SW4 to SW6)		All OFF	
CPU communica timing setting (S			ON	
	Initial timing setting (SW8)		OFF	

### QJ71E71

36

Set the Q series-compatible E71 in "MNET/10H Ethernet module count setting" of GX Developer.

MX Transfer Setup Wizard - PC side			×
	Please select the PC side I/F Communication set Connect module Protocol Network No Station No Time out	PC side I/F Ethernet board  ing QJ71E71 V TCP V UDP TCP 2 1 000 ms	
Cancel	Back	lext >	

For a description of the editable parameters on the page see <u>PC side Ethernet parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering the address of the PLC ethernet module.

### **TCP** connections

Connected Station CPU		Relayed	Station	CPU		
QCPU (Q mode)	Relayed Network	QCPU (Q mode)	QCPU (A mode)	QnA CPU	ACPU *1	FX CPU
	MELSECNET/H	0	х	x	x	0
	MELSECNET/10	0	о	о	о	x
	MELSECNET(II)	x	x	x	x	x
	Ethernet	0	х	о	x	x
	Computer link	*2	x	x	x	x
	CC-Link	0	о	о	о	x
	CC-Link IE	*3	x	x	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : For the Redundant PLC, access is disabled \*3 : partially supported, depends on CPU type

#### **UDP** connections

Connected Station CPU	Relayed Network	Relaye d Station CPU				
QCPU (Q mode)		QCPU (Q mode)	QCPU (A mode)	QnA CPU	ACPU *1	FX CPU
	MELSECNET/H	0	х	х	х	0
	MELSECNET/10	0	0	о	о	х
	MELSECNET(II)	x	х	x	x	х
	Ethernet	0	х	о	x	х
	Computer link	*2	о	x	x	x
	CC-Link	0	0	0	0	x
	CC-Link IE	*3	х	x	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : For the Redundant PLC, access is disabled

\*3 : partially supported, depends on CPU type



#### Simultaneous use of different protocol types

When two different communication systems (protocols) are used to access the same Q seriescompatible E71 with a serial number before 05051 from one PC, different station numbers must be set for TCP/IP and for UDP/IP.

(Example) When MX OPC Server uses TCP and GX Developer uses UDP



## **GOT Module**

Communication Setting Wizard - PC si	de	×
	Please select the PC side I/F PC side I/F Ethernet board Communication setting Connect module COT	
	Port No         5011           Time out         1000         ms	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PC side Ethernet parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering the address of the PLC ethernet module.

## **FX** Ethernet Module

Communication Setting Wizard - PC sid	de 🛛 🗶	1
	Please select the PC side I/F PC side I/F Ethernet board Communication setting Connect module FX-ENET(-ADP) Time out 1000 ms	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PC side Ethernet parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering the address of the PLC ethernet module.

## **CPU Module**

'CPU module' is selected when connecting to a Q-series CPU with Ethernet interface (QnUDE(H)).

MX Transfer Setup Wizard - PC side			×
	Please select the PC side I/F Communication se Connect module Protocol	e PC side I/F Ethernet board	
	Time out	1000 ms	
Cancel	Back	Next >	

Pressing the <Next> button opens a page to search for the PLC CPU or to manually enter its IP

address.

#### 4.2.4 PC Modem

Configure a dial-up connection via modem.



It is recommended to configure and test the connection in GX Developer or GX IEC Developer before using this wizard.

## PC side modem parameters

Parameter	Values	Description
All Dorto		if cleared, only one of the serial interfaces actually installed in the PC can be selected
All Ports		if checked, any COM port can be selected. This may be useful when defining a configuration to a different PC
Connect part	'All Ports' flag cleared	selects the serial interface in the PC from a list of serial interfaces found on the PC
Connect port	'All Ports' flag checked	selects the serial interface in the PC from al list possible serial interfaces
Connect module	Q6TEL(QnA), FXCPU, AJ71QC24N, QJ71C24, QJ71CMO	type of remote PLC module
Time out	1 - 2147483647	communication timeout in milliseconds



#### Note:

Simultaneous modem communication by several MELSOFT applications is not supported. Communication errors, a disconnection of the telephone line or similar problems may occur.

Communication Setting Wizard -	PC side I/F PC side I/F Modem Communication setting Connect port COM1 All Ports Connect module QJ71C24 Time out 10000 ms	×
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PC side modem parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for configuring the modem connection (e.g. telephone number etc.).

#### 4.2.4.1 Modem Line Settings

Enter the parameters for the modem connection to a remote PLC including the phone number and any AT commands to configure the local modem.

	<ul> <li>Note:</li> <li>(a) Do not use a call-waiting phone line.</li> <li>On a call-waiting phone line, data corruption, telephone line disconnection or similar may occur due to interrupt reading sounds.</li> <li>(b) Do not connect the line to master/slave phones.</li> <li>If the slave phone picks up while the telephone line is connecting to the master/slave phones, the telephone line may be disconnected.</li> <li>(c) Use an analog 2 wire type telephone line.</li> <li>When using a digital line, use a terminal adaptor.</li> <li>When the telephone line is of 4 wire type, the line may not be connected depending on the wiring type of the modular jack.</li> <li>For the 4 wire type conduct connection tests in advance to check for connection.</li> </ul>
--	---

	Note: (a) Modem for radio communication using a cellular phone Although the modem name is different depending on the maker, the modem is generically referred to as the cellular phone communication unit in this manual. Select the model of the cellular phone communication unit according to the cellular phone used. For details, contact the company of your cellular phone. (b) Cellular phone without auto answer function For a cellular phone without auto answer function, use a cellular phone communication unit that has the ANS/ORG/TEL select switch. If the cellular phone communication unit
--	---

does not have the ANS/ORG/TEL

select switch, it is impossible to connect the line. The line connection procedure is different depending on the cellular phone company and cellular phone model. For details, contact the maker of your cellular phone.

## **Connect line dialog**

Set the line connection system, telephone line, AT command, etc.

Communicatio	n Setting Wizard - Connect Line	×
Connect way	Auto line connect	
Callback n	umber	
Line Line	TONE  Outside line number	
Connection -	TONE	
Call number	ISDN Browse	
Name		
AT command	1	
O Modern sta	andard Help of AT command	
AT comma	and setting Browse	
Title		
	Details setting	
	Cancel < Back Next >	



Note:

The 'Next' button is disabled, if no number has been entered in the 'Call number' field.

ltem		Description
Connect w	ay	fixed to 'Auto line connect'
Callback nu	umber	notavailable
Line	Line type	set the line type (Default: Tone)
	Outside line number	set the outside line access number. The number must not exceed a length of 10 characters and can consist of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, #
Connecti on target	Call number	enter the telephone number of the connection target. When the connection target has been selected on the phone book screen, the telephone number of the connection target appears. The phone number must not exceed a length of 50 characters and

42

Item		Description
		can consist of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, #
	Name	an optional name, which has been assigned to the phone number in the phone book
	Browse	displays the phone book screen. For details see 'Call book dialog'
AT command	Modem standard	when selected the standard AT commands are used
	AT command setting	AT command sequence to initialize the local modem The command must not exceed a length of 70 ASCII characters
	Title	the optional title of the AT command selected in the AT command registration screen
	Browse	displays the AT command registration screen. For details see <u>'AT</u> <u>command registration dialog'</u>
	Help of AT command	displays the AT command help
Details set	ting	displays the 'Details setting dialog'

# Call book dialog

Call book	×
Remote PLCs     Target PLC	Close
	Cancel
	New call number
	New group
	Edit
	Сору
	Move group
	Delete
Display cursor position	Find
Call number 012345	Select
Outside line number	
Comment	Read file
	Write file

ltem	Description
Close	store the edited data and close the phone book dialog
Cancel	discard the edited data and close the phone book dialog
New call number	open the <u>'Call number setting dialog'</u> to enter a new phone number
New group	create a new group; opens the <u>'Group setting'</u> dialog for entering the group name
Edit	if a group is selected, the <u>'Group setting'</u> dialog is opened. Otherwise it opens the <u>'Call number setting dialog'</u> to edit a phone number
Сору	copies the selected phone number to a different group (see <u>'Select phone</u> group name')
Movegroup	moves the selected phone number to a different group (see <u>'Select phone</u> group name')
Delete	deletes the selected phone number or group. Only empty groups can be deleted. If a group is not empty, the phone numbers must be deleted first.
Find	used to search phone numbers and associated names (see <u>'Find a phone number'</u> )
Select	closes the dialog and copies the selected phone number to the line dialog
Read file	reads phone numbers from a file selected by the user
Write file	stores the contents of the phone book in a file selected by the user

## Call number setting dialog

Set the telephone number to be registered to the phone book.

Call number setting		×
Group name	Remote PLC Modems	
Destination name		
Call number		
Outside line number		
For only line conne Password A passwor	ction	a line.
Comment		
	OK Cancel	

Item	Description
Group name	the group name of the registration destination.
Destination name	name associated with the phone number
Call number	enter the telephone number of the connection target. The phone number must not exceed a length of 50 characters and can consist of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, , #
Outside line number	set the outside line access number. The number must not exceed a length of 10 characters and can consist of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, , #
For only line connection	if a password has been set in A6TEL, Q6TEL or Q series C24 for remote access, the password must be entered here in order to access the target PLC
Comment	an optional comment describing the phone number

## Edit phone group name

Group setting	×
Group name Remote PLCs	
ОК	Cancel

Enter the name for a group of telephone numbers.

### Select phone group name

Group setting	×
Group name	Remote PLCs
	OK Cancel

Select the name of the group, where the selected phone number is copied to.

#### Find a phone number

Find call number			×
Find destination name	1	•	Find next
Find call number		•	Cancel
Find direction From top to From curso From curso	down r to down r to up		

Search the phone book for a given name or number.

## AT command registration dialog

Set the AT commands used on the line setting screen.

⊡- Modem at MELSOFT application side	Close
Init modem	
Modem at TEL side	Cancel
	New AT comma
	Edit
	Copy
	Move group.
	Delete
	Select
	Read file
	Write file

ltem	Description
Close	store the edited data and close the AT command registration dialog
Cancel	discard the edited data and close the AT command registration dialog
New AT command	define a new AT command. For details see <u>'AT command edit dialog'</u>
Edit	edit an existing AT command. For details see 'AT command edit dialog'
Сору	copy the selected command to a different group (see <u>'Select AT</u> <u>command group name'</u> )
Move group	move the selected command to a different group (see <u>'Select AT</u> <u>command group name'</u> )
Delete	delete the selected AT command
Select	Used to display the AT command selected in the AT command display list on the line setting screen.
Read file	reads AT commands from a file selected by the user
Write file	stores the AT commands in a file selected by the user

## AT command edit dialog

#### Register a new AT command and edit the AT command.

AT command registration
Group name
Modem at MELSOFT application side
Title
AT command
OK Cancel Help of AT command

ltem	Description
Group name	displays the name of the group to which the AT command is assigned
Title	a name for the AT command (max 60 ASCII characters)
AT command	enter the AT command for modem initialization (max. 70 ASCII characters)
Help of AT command	displays the AT command help

### Select AT command group name

Group setting	×
Group name	Modem at MELSOFT application side
	OK Cancel

Select the name of the group, where the selected AT command is copied to.

## **Details setting dialog**

Set details for telephone line connection.

Details setting		×
Line connection CD signal wait time	90 seconds.	
Line connection modern report wait time	5 seconds.	
Line disconnection CD signal wait time	5 seconds.	
Line disconnection delay time	3 seconds.	
Data transmission delay time	0 seconds.	
AT command response wait time	1 seconds.	
Password cancellation response wait time	5 seconds.	
AT command/password cancellation retry times	3 times.	
Line callback cancel wait time	90 seconds.	
Call back delay time	20 seconds.	
Call back reception waiting time-out	120 seconds.	
	L	

ltem	Description
	Set the maximum time to wait for the carrier-detect signal to be set (Default: 90)
Line connection CD signal wait time	Increase the time, if the CD signal does not turn ON within the set time depending on the line-connected region (example: overseas).
5	Setting range: 1 to 999
Line connection modem report waiting time	Set the line connection modem report wait time. (Default: 5) Increase the set time if the response speed of the modem is low. Setting range: 1 to 999
	Set the maximum time to wait for the carrier-detect signal to be dropped (Default: 5)
Line disconnection CD signal wait time	Increase the set time if the CD signal does not turn OFF within the preset time depending on the line-connected region (example: overseas).
	Setting range: 1 to 999
	Set the line disconnection delay time. (Default: 3)

#### MX CommDTM-HART

50

Item	Description		
Line disconnection delay time	Increase the set time if the response speed of the modem is low. Setting range: 1 to 999		
Data transmission delay time	Set the data transmission delay time. (Default: 0) Increase the set time if the response speed of the modem is low. Setting range: 1 to 999		
AT command response wait time	Set the AT command response wait time. (Default: 1) Increase the set time if the response speed of the modem is low. Setting range: 1 to 999		
Password cancellation response wait time	Set the password cancellation response wait time. (Default: 5) Increase the set time if the quality of the line with the other end is low. Setting range: 1 to 999		
AT command/ password cancellation retry times	Set the AT command/password cancellation retry count. (Default: 3) Increase the set count if the AT command cannot be sent or the password cannot be canceled. Setting range: 1 to 999		
Line callback cancel wait time	Set the Line callback cancel wait time. (Default: 90) Increase the set time if the line at the other end (Q series corresponding C24 side) is not disconnected within the set time depending on the line-connected region (example: overseas). Setting range: 1 to 180		
Call back delay time	Set the callback delay time. (Default: 20) Increase the set time if the device for relaying connection to the line (example: modem, etc.) requires the set time for reconnection after line disconnection. Setting range: 1 to 999		
Call back reception waiting time-out	Set the callback reception waiting time-out. (Default: 120) Increase the set time if a time-out occurs in a callback receive waiting status. Setting range: 1 to 3600		

#### 4.2.5 PC CC-Link IE Board

A connection between PC and PLC via CC-Link IE requires the CC-Link IE interface board and the corresponding driver to be installed in the PC.

# PC side CC-Link IE parameters

Parameter Values		Description
Board No.	1st, 2nd, 3rd, 4th module	selects the interface board in the PC

#### Communication Setting Wizard - PC side



C sid	le		×
	Please select t	he PC side I/F	
	PC side l/F	CC-Link IE board	
	-Communication s	etting	
	Board No	1st module	
		2nd module	
	ļ	4th module	
<	< Back	Next >	

For a description of the editable parameters on the page see <u>PC side CC-Link IE parameters</u>. The PLC station, to which a connection is established, can be either

- the host station
- a different station in an attached network

Cancel

• a different station in a separate network

### Q CPU (Q mode)

**MX CommDTM-HART** 

	Connected Station CPU		Relayed Station CPU				
Own Board	QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	0	х	х	х	x
		MELSECNET/10	0	х	х	х	х
		MELSECNET(II)	х	х	х	х	x
о	o	Ethernet	0	х	х	х	х
		Computer link	х	х	х	х	х
		CC-Link	х	х	х	х	x
		CC-Link IE	*2	х	x	х	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : partially supported, depends on CPU type

## Q CPU (A mode)

Own Board	Connected Station CPU		Relaye	ed Stat	Station CPU			
	QCPU (A mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
		MELSECNET/H	х	х	х	x	x	
		MELSECNET/10	х	х	х	x	х	
		MELSECNET(II)	х	х	х	x	x	
о	о	Ethernet	х	х	х	x	x	
		Computer link	х	х	х	x	х	
		CC-Link	х	х	х	x	x	
		CC-Link IE	х	х	х	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

#### QnA CPU

Own Board	Connected Station CPU		Relayed Station CPU					
	QnACPU	Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
		MELSECNET/H	х	х	х	х	x	
		MELSECNET/10	х	х	0	х	x	
		MELSECNET(II)	x	x	х	x	x	
о	o	Ethernet	х	х	0	х	x	
		Computer link	х	х	х	х	x	
		CC-Link	x	х	х	x	x	
		CC-Link IE	x	х	х	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### A CPU

Own Board	Connected Station CPU		Relaye				
	ACPU *1	Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	х	х	х	х	x
		MELSECNET/10	х	х	х	х	x
		MELSECNET(II)	х	х	х	х	x
0	о	Ethernet	х	х	х	х	x
		Computer link	х	х	х	х	х
		CC-Link	х	х	х	х	х
		CC-Link IE	х	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### 4.2.6 PC MELSECNET/H Board

A connection between PC and PLC via MELSECNET/H requires the MELSECNET/H interface board and the corresponding driver to be installed in the PC.

## PC side MELSECNET/H parameters

Parameter	Values	Description
Board No.	1st, 2nd, 3rd, 4th module	selects the interface board in the PC

Communication Setting Wizard - PC	side	×
	Please select the PC side I/F PC side I/F MELSECNET/H board Communication setting Board No 1st module	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PC side MELSECNET/H parameters</u>. The PLC station, to which a connection is established, can be either

- the host station
- a different station in an attached network
- a different station in a separate network

### MELSECNET/H mode to Q CPU (Q mode)

Own Board	Connected Station CPU		Relayed Station CPU				
	QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	0	х	х	х	х
		MELSECNET/10	0	0	0	0	x
		MELSECNET(II)	х	х	х	х	х
О	0	Ethernet	0	х	х	0	х
		Computer link	*3	х	0	х	х
		CC-Link	0	х	х	х	0
		CC-Link IE	*4	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : Operates only when QCPU (Q mode) is used.

 $^{\ast 3}$  : For the Redundant PLC, access is disabled.

\*4 : partially supported, depends on CPU type

### MELSECNET/10 mode to Q CPU (Q mode)

Own Board	Connected Station CPU		Relayed Station CPU					
	QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
		MELSECNET/H	х	х	х	х	x	
		MELSECNET/10	0	0	0	0	x	
		MELSECNET(II)	х	х	х	х	x	
о	ο	Ethernet	0	х	х	х	x	
		Computer link	*2	х	0	х	x	
		CC-Link	0	х	х	х	x	
		CC-Link IE	*3	х	х	х	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

 $^{\ast}2$  : For the Redundant PLC, access is disabled

 $^{\ast}3$  : partially supported, depends on CPU type

### MELSECNET/10 mode to Q CPU (A mode) and A CPU

Own Board	Connected Station CPU		Relayed	Relayed Station CPU					
	QCP U (A mod e)	ACP U *1	Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
		o	MELSECNET/H	х	х	х	х	x	
			MELSECNET/10	0	0	0	0	х	
			MELSECNET(II)	х	х	х	х	х	
0	о		Ethernet	х	х	х	х	х	
			Computer link	х	х	х	х	х	
			CC-Link	х	х	х	х	х	
			CC-Link IE	х	х	х	х	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### MELSECNET/10 mode to QnA CPU

Own Board	Connected Station CPU		Relayed Station CPU				
	QnACPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	х	х	х	х	х
		MELSECNET/10	0	0	0	0	х
		MELSECNET(II)	х	х	х	х	х
0	0	o Ethernet x	х	0	х	х	
		Computer link	х	х	0	х	х
		CC-Link	х	х	х	х	х
		CC-Link IE	x	х	х	х	х

o: Accessible

x: Inaccessible

 $^{*1}$  : Including motion controller CPU

#### 4.2.7 PC MELSECNET/10 Board

A connection between PC and PLC via MELSECNET/10 requires the MELSECNET/10 interface board and the corresponding driver to be installed in the PC.

Parameter	Values	Description
Board No.	1st, 2nd, 3rd, 4th module	selects the interface board in the PC
Communication Set	ting Wizard - PC side         Please select th         PC side I/F         Communication se         Board No	e PC side I/F  meLSECNET /10 board  sting st module
Cano	el < Back	Next >

## PC side MELSECNET/10 parameters

For a description of the editable parameters on the page see <u>PC side MELSECNET/10 parameters</u>. The PLC station, to which a connection is established, can be either

- the host station
- a different station in an attached network
- a different station in a separate network

### Q CPU (Q mode)

MX CommDTM-HART

Own Board	Connected Station CPU		Relayed Station CPU				
	QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	0	х	х	х	х
		MELSECNET/10	0	0	0	0	х
		MELSECNET(II)	х	х	х	х	х
о	о	Ethernet	0	х	х	0	x
		Computer link	*2	х	0	х	х
		CC-Link	0	х	х	х	0
		CC-Link IE	*3	х	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : For the Redundant PLC, access is disabled

\*3 : partially supported, depends on CPU type

## Q CPU (A mode) and A CPU

Own Board	Connected Station CPU		Relayed	Relayed Station CPU					
	QCP U (A mod e)	ACP U *1	Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
			MELSECNET/H	х	х	х	х	х	
			MELSECNET/10	0	0	0	0	х	
			MELSECNET(II)	х	х	х	х	х	
О	о	o	Ethernet	х	x	х	x	x	
			Computer link	х	x	х	x	x	
			CC-Link	х	о	х	x	x	
			CC-Link IE	х	x	х	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### QnA CPU

		Connected Station CPU		Relayed Station CPU				
Own	Board	QnACPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	o	o	MELSECNET/H	х	х	х	х	x
			MELSECNET/10	0	0	0	0	х
			MELSECNET(II)	х	х	х	х	x
c			Ethernet	х	х	0	х	x
			Computer link	х	х	0	х	x
			CC-Link	x	0	х	x	x
			CC-Link IE	х	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

#### 4.2.8 PC CC-Link Board

A connection between PC and PLC via CC-Link requires the CC-Link interface board and the corresponding driver to be installed in the PC.

## PC side CC-Link parameters

Parameter	Values	Description
Board No.	1st, 2nd, 3rd, 4th module	selects the interface board in the PC

Note: The CC-Link master/local module used in CC-Link communication or CC-Link G4 communication (only when the AJ65BT-G4 is used), must have software version 'N' or later. Modules with software version 'M' or earlier will not operate properly.

		MX	CommD	TM-HART
--	--	----	-------	---------

Communication Setting W	/izard - PC	sid
contraincation setting in		

Communication Setting Wizard - PC side	×
Pease select the PC side I/F     PC side I/F     Communication setting     Board No     1st module   3rd module   3rd module   4th module	
Cancel < Back Next >	

For a description of the editable parameters on the page see <u>PC side CC-Link parameters</u>. The PLC station, to which a connection is established, can be either

- the host station
- a different station in an attached network
- a different station in a separate network

### Q CPU (Q mode)

	Connected Station CPU		Relayed Station CPU				
Own Board	QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	0	MELSECNET/H	0	х	х	x	х
		MELSECNET/10	0	x	х	x	x
		MELSECNET(II)	х	х	х	x	x
о		Ethernet	0	x	х	x	x
		Computer link	х	х	х	x	x
		CC-Link	х	х	х	x	x
		CC-Link IE	*2	x	х	x	x

o: Accessible

x: Inaccessible

\*1: Including motion controller CPU

\*2 : partially supported, depends on CPU type

## Q CPU (A mode)

	Connected Station CPU		Relaye	ed Stat	ion CPU		
Own Board	QCPU (A mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
		MELSECNET/H	х	х	х	х	x
		MELSECNET/10	х	х	х	х	х
		MELSECNET(II)	х	х	х	х	x
0	0	Ethernet	х	х	х	х	x
		Computer link	х	х	х	х	x
		CC-Link	х	х	х	х	x
		CC-Link IE	x	х	х	x	x

o: Accessible

x: Inaccessible

 $^{*1}$  : Including motion controller CPU

## QnA CPU

	Connected Station CPU		Relayed Station CPU				
Own Board	QnACPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	o	MELSECNET/H	x	х	х	x	х
		MELSECNET/10	x	х	0	x	x
		MELSECNET(II)	x	х	х	x	х
о		Ethernet	x	х	0	x	х
		Computer link	x	х	х	x	x
		CC-Link	x	x	х	x	x
		CC-Link IE	x	x	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### A CPU

**MX CommDTM-HART** 

	Connected Station CPU		Relayed Station CPU				
Own Board	ACPU *1	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	O	MELSECNET/H	х	х	х	х	х
		MELSECNET/10	х	х	х	х	х
		MELSECNET(II)	х	х	х	х	x
О		Ethernet	х	х	х	х	x
		Computer link	х	х	х	х	х
		CC-Link	х	х	х	х	х
		CC-Link IE	х	х	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

#### 4.2.9 PC Q Series Bus

Configure a connection from the PC CPU module installed in a Q series rack to a PLC CPU within the same rack, using the back panel bus. Alternatively the communication between PC CPU and PLC CPU module can use a <u>MELSECNET/H</u> or a <u>CC-Link</u> interface.

Communication Setting Wizard - PC sid	e	×
	Please select the PC side I/F PC side I/F Series Bus Caution: If accessing the PLC CPU through a MELSECNET/H unit that is controlled by computer CPU, please select (MELSECNET/H board) on the (PC side I/F). If accessing the PLC CPU through a CC-Link unit that is controlled by computer CPU, please select [CC-Link board] on the (PC side I/F).	
Cancel	Back Next >	

Pressing the **<Next>** button opens a <u>page</u> for selecting the connected CPU type.

## **Q** Series Bus - Network

Parameter	Values	Description
CPU type	see list of supported CPU types	type of PLC CPU module
Multiple CPU	No. 1, No. 2, No. 3	selects the CPU module in the PLC

Communication Setting Wizard - Network			×
Ple	ase select the Network		
	nnect CPU series U type	Q Q02(H)	
	ttiple CPU	No.1	
Cancel < Back	Next >		

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

#### 4.2.10 PC GX Simulator

Define a connection to an instance of GX Simulator running on the same or a different computer.

## PC side GX Simulator parameters

Parameter	Values	Description
Station type	'Host station' or 'Other station'	type of PLC ethernet module
CPU series	Q, QnA, A, FX	series of the CPU type selected in GX Simulator
		(FX is only available for station type 'Host station')
CPU type	see list of supported CPU types	type of CPU selected in GX Simulator not selectable for 'Other station' as 'Station type'

#### MX CommDTM-HART

Parameter	Values	Description
Network No	1 - 239	network number of the E71 ethernet module, the PC is connected to. The E71 network number is configured in the 'Network Parameters' of the PLC settings.
		only for Other station as Station type
Station No.	1 - 64	station number of the PC side interface. This number can be freely chosen, but must be unique within the network specified by the network number. only for 'Other station' as 'Station type'
		only for other station as station type
Time out	1 - 2147483647	communication timeout in milliseconds

#### Note:

 $\langle \! | \! \rangle$ 

Before configuring the connection please make sure that GX Simulator and GX Developer are operating.

In addition, do not terminate GX Simulator and GX Developer while the user program is running.

If you do so, you will not be able to terminate the user program normally.

#### Communication Setting Wizard - PC side

	Please select th	e PC side I/F	
	PC side I/F	GX Simulator	•
	Communication Se	ettion	
	Station type	Host station	•
	CPU Series	Q	•
	CPU type	Q02(H)	•
	Time out	1000	ms
Cancel	< Back	Next >	

64

×

Communication Setting Wizard - P	C side		×
	Please select t	the PC side I/F	
	PC side I/F	GX Simulator	
	Station type	Other station	
	CPU Series	Q	
	CPU type	Q25H 🔽	
	Network No	1	
	Station No	1	
	Time out	1000 ms	
Cancel	< Back	Next >	

For a description of the editable parameters on the page see <u>PC side GX Simulator parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

### 4.2.11 PC CPU Board

A connection between PC and PLC using a CPU board requires the CPU board and the corresponding driver to be installed in the PC.

Communication Setting Wizard - PC sid	e	×
	Please select the PC side I/F PC side I/F	
Cancel	Back Next >	

#### MX CommDTM-HART

The PLC station, to which a connection is established, can be either

• the host station

66

- a different station in an attached network
- a different station in a separate network

#### 4.2.12 PLC CPU Interface

Enter the settings for the serial interface of a PLC CPU module.

### PLC side CPU interface parameters

Parameter	Values	Description
CPU series	Q, QnA, A, FX	series of the CPU type selected in serial PC side interface
CPU type	see list of supported CPU types	type of PLC CPU module
Transmission speed	300 - 115200	baudrate on the serial link
Control	DTR only, RTS only, DTR and RTS, DTR or RTS	handshake signals



#### Note for Q00J/Q00/Q01 CPUs:

If the baudrate set in the PC differs from the baudrate in the CPU module, the actual baudrate is fixed at 9600 bps. To increase the communication speed, match the personal computer side transmission speed with the Q00J/Q00/Q01CPU side transmission speed.

#### Supported transmission speeds:

As the transmission speed of the QCPU(Q mode) and QCPU(A mode), you can set 9600bps, 19200bps, 38400bps, 57600bps or 115200bps. For the QnACPU of version 9707B or later, you can set the transmission speed of 9600bps, 19200bps or 38400bps. For the QnACPU of other versions, you can set 9600bps or 19200bps.

The transmission speeds of the ACPU (except A2USHCPU-S1), FXCPU and motion controller CPU are fixed to 9600bps. (The A2USHCPU-S1 may be set to 19200bps.)

## PLC CPU Standard Serial Interface (RS 422)

Communication Setting Wizard - Pl	LC side Please select the PLC side I/F PLC side I/F CPU module Communication setting CPU series Q CPU type Q02(H) Transmission speed 115200 bps Control DTR or RTS Control	X
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side CPU interface parameters</u>. Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

### Q CPU (Q mode)

Connected Station CPU	Relayed Network	Relay				
QCPU (Q mode)		QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	0	х	х	х	х
	MELSECNET/10	0	0	0	0	0
	MELSECNET(II)	х	х	х	х	х
	Ethernet	0	х	0	х	х
	Computer link	*3	х	0	х	х
	CC-Link	0	*2	*2	*2	x
	CC-Link IE	*4	x	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : Use the QnA or ACPU side CC-Link module whose ROM version is "S" or later

\*3 : For the Redundant PLC, access is disabled

\*4 : partially supported, depends on CPU type

### Q CPU (A mode)

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (A mode)		QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	х	х	х	х	х	
	MELSECNET/10	х	0	х	0	х	
	MELSECNET(II)	х	0	х	0	х	
	Ethernet	х	х	х	x	х	
	Computer link	x	x	х	x	x	
	CC-Link	x	х	х	x	х	
	CC-Link IE	х	х	х	х	х	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

#### QnA CPU

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnACPU		QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	х	х	х	х	x	
	MELSECNET/10	х	х	0	х	о	
	MELSECNET(II)	х	х	0	х	x	
	Ethernet	х	х	0	х	x	
	Computer link	x	х	0	x	x	
	CC-Link	x	х	х	x	x	
	CC-Link IE	x	x	x	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### A CPU
69

Connected Station CPU		Relayed Station CPU					
ACPU *1	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	x	х	х	х	x	
	MELSECNET/10	x	о	х	0	х	
	MELSECNET(II)	x	0	х	0	x	
	Ethernet	x	х	х	х	х	
	Computer link	x	x	х	х	x	
	CC-Link	x	х	х	x	x	
	CC-Link IE	x	x	х	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### FX CPU

Connected Station CPU		Relayed Station CPU					
FXCPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	х	х	х	х	х	
	MELSECNET/10	x	х	х	х	х	
	MELSECNET(II)	x	х	х	х	х	
	Ethernet	х	х	х	х	х	
	Computer link	х	х	х	х	х	
	CC-Link	х	х	х	х	х	
	CC-Link IE	x	х	х	х	х	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

# PLC CPU Universal Serial Bus Interface (USB)

# PLC side CPU USB interface parameters

Parameter	Values	Description
CPU series	Q	series of the CPU type selected in USB PC side interface
		USB interface only supported by Q series modules
CPU type	see list of supported CPU types	type of PLC CPU module

Communication Setting Wizard - PLC side	×
Please select the PLC side I/F   PLC side I/F   CPU series   CPU type   QO2(H)	
Cancel < Back Next >	

For a description of the editable parameters on the page see <u>PLC side CPU USB interface</u> parameters.

Pressing the **Next**> button opens a <u>page</u> for entering a comment for the connection.

### Q CPU (Q mode)

Connected Station CPU		Relayed Station CPU					
QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	0	x	х	x	х	
	MELSECNET/10	0	0	0	0	х	
	MELSECNET(II)	х	x	х	x	х	
	Ethernet	0	х	0	х	х	
	Computer link	*3	x	0	x	х	
	CC-Link	0	*2	*2	*2	х	
	CC-Link IE						

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : Use the QnA or ACPU side CC-Link module whose ROM version is "S" or later

\*3 : For the Redundant PLC, access is disabled



#### Warning:

Frequently disconnecting/reconnecting the USB cable or resetting or powering ON/OFF the PLC CPU during communications with the PLC CPU may cause a communication error which cannot be recovered.

If it is not recovered, completely disconnect the USB cable once and then reconnect it after 5 or more seconds have elapsed.

# **PLC Ethernet CPU**

Please see PLC Ethernet Interface.

### 4.2.13 PLC C24 Interface

Enter the settings for a serial interface module in the PLC.

# PLC side C24 module parameters

Parameter	Values	Description
Module type	<u>AJ71C24, AJ71UC24,</u> <u>AJ71QC24, QJ71C24</u>	type of PLC C24 module
Station No.	1 - 64	station number of the PC side interface. This number can be freely chosen, but must be unique within the network specified by the network number.
Transmission speed	300 - 115200	baudrate on the serial link

72

Parameter	Values	Description
Parity	Odd, None, Even	parity
Data bit	7, 8	number of data bits in a byte only for AJ71C24 and AJ71UC24
Stop bit	1, 2	number of stop bits only for AJ71C24 and AJ71UC24
Sum check	Existence, None	enable/disable sumcheck only for AJ71C24 and AJ71UC24
Control	DTR only, RTS only, DTR and RTS, DTR or RTS	handshake signals



**Note:** In any connection form (direct coupling, relaying), where the target station of the UC24 or C24 is the QnACPU, an error is returned, if clock data read/write is executed.

# AJ71C24 / AJ71UC24

Communication Setting Wizard - PLC side					
	Please select the PL PLC side I/F	C side I/F 24 module AJ71C24 • 19200 • 19200 • 19200 • 19200 • Existence • DTR or RTS Conf	bps bit bit		
Cancel	< Back Nex	t >			

73

Communication Setting Wizard -	- PLC side	×
	Please select the PLC side I/F	
	PLC side I/FC24 moduleCommunication settingModule typeAJ71UC24 •Station No0Transmission speed19200 •ParityOdd •Data bitStop bit1Stop bitSum checkExistence •ControlDTR or RTS Control	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side C24 module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.



Note:

If the connected station CPU is the AnUCPU and the computer link module is the UC24 for computer link connection, remote operation will result in an error when access is made to the AnNCPU, AnACPU or QnACPU via the MELSECNET/10.

Connected Station CPU		J	Relaved	Relayed Station CPU				
QCP U (A mod e)	QnA CP U	A CPU *1	Network	QCP U (Q mod e)	QCP U (A mod e)	QnA CPU	ACP U *1	FX CPU
	*2		MELSECNET/H	х	х	х	х	х
			MELSECNET/10	х	о	*2	0	х
			MELSECNET(II)	x	o	*2	0	х
			Ethernet	x	x	х	х	х
			Computer link	х	x	х	х	х
			CC-Link	х	x	х	х	х
			CC-Link IE	х	x	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : Operates as the one equivalent to AnACPU

			Settings			
Switch *1		For 1:1	For 1:n comm	nunication		
			Module 1)	Module 2)		
Mode setting switch		1 (format 1)	A (format 1)	5 (format 1)		
Station number setting switches		0	As set by use	er		
	Main channel setting	OFF (RS-232)	OFF (RS- 232)	ON (RS-422)		
	Data bit setting	As set by user	As set by user *2			
Transmission	Transmission speed setting	As set by user	As set by user *2			
specifications	Parity bit yes/no setting	As set by user	As set by user *2			
switches	Stop bit setting	As set by user	As set by user *2			
	Sum check yes/no setting	As set by user	As set by user *2			
	Online change enable/ disable setting	As set by user				
	Computer link/multidrop setting	ON (computer link)	ON (computer link)	ON (computer link)		

\*1: For switch numbers, refer to the computer link module manual.

\*2: Make the same settings to Module 1 and Module 2.

# AJ71QC24

Communication Setting Wizard - PLC	side	×
	Please select the PLC side I/F   PLC side I/F   Communication setting   Module type   AJ71QC24   Station No   0   Transmission speed   19200   bps   Parity   Odd     Control   DTR or RTS Control	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side C24 module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

### Note:

For the QC24, note that the illegal case of specifying the first I/O number of a nonexisting module and reading/writing U  $\G$  will not return an error if the software version of the module is 'k'' or earlier.

With AJ71QC24-R2, A1SJ71QC4-R2, AJ71QC24N-R2 or A1SJ71QC24N-R2 modules only CH1 can be used.

Connected Station CPU	Relayed Network	Relayed Station CPU				
QnACPU		QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	х	х	х	х	х
	MELSECNET/10	х	х	0	x	х
	MELSECNET(II)	х	х	0	х	х
	Ethernet	х	х	0	х	х
	Computer link	х	х	0	х	x
	CC-Link	х	х	0	х	x
	CC-Link IE	х	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

		Settings	3				
		For 1:1		For 1:n communication			
Switch (Sw	itch Number)	commu	nication	Module 1)		Module	2)
		CH1 side	CH2 side	CH1 side	CH2 side	CH1 side	CH2 side
Mode setting switch		5 (format 5)		0 or 5 (format 5)	5 (format 5)	5 (format 5)	
Station nun	nber setting switch	0		As set by user			
	Operation setting switch (SW01)	OFF (independent operation)		OFF (independe nt operation)	ON or OFF *1	OFF (indepe operatio	ndent on)
	Data bit setting (SW02) ON (8 bit)		it)				
	Parity bit yes/no setting (SW03)	As set by user ng As set by user		As set by user *2			
	Even parity/odd parity setting (SW04)			As set by user *2			

76

Transmissi	Stop bit setting (SW05)	OFF (1 bit)	
on specificati	Sum check yes/no setting (SW06)	ON (yes)	
switches	Online change enable/disable setting (SW07)	As set by user	
	Setting change enable/disable setting (SW08)	As set by user	As set by user *2
	Transmission speed setting		
	(SW09 to SW12)	As set by user	As set by user *2
	(SW13 to SW15)	All OFF	

\*1: Set to ON if the CH1 side mode setting switch setting is 0 or to OFF if the

setting is 5 (format 5).

\*2: Make the same settings to Module 1 and Module 2.

# QJ71C24

Communication Setting Wizard - PLC si	ide	×
	Please select the PLC side I/F   PLC side I/F   Communication setting   Module type   QJ71C24   Station No   0   Transmission speed   19200   bps   Parity   Odd     Control     DTR or RTS Control	
Cancel	Back Next >	

For a description of the editable parameters on the page see <u>PLC side C24 module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

#### Note:

When QJ71C24-R2 of function version A is used, only either of CH1 and CH2 can be used.

When the MELSOFT product, such as GX Developer or GOT, is using one channel, the application cannot use the other channel.

When the QJ71C24-R2 of function version B is used, the application can use both channels.

Connected Station CPU	Relayed Network	Relaye	ed Stat	ion CP	יט	
QCPU (Q mode)		QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	0	х	х	х	x
	MELSECNET/10	0	0	0	0	x
	MELSECNET(II)	х	х	х	х	x
	Ethernet	0	х	0	х	x
	Computer link	*2	х	0	х	x
	CC-Link	0	0	0	0	x
	CC-Link IE	*2	х	х	x	x

o: Accessible

x: Inaccessible

 $^{*1}$  : Including motion controller CPU

\*2 : For the Redundant PLC, access is disabled

(a) For 1:1 communication



	Settings		
ltem	b15 to b8	b7 to b0	Set Value
Switch 1	CH1 communication speed	CH1 transmission setting *1	0000H
Switch 2	_	CH1 communications protocol	0000H
Switch 3	CH2 communication speed	CH2 transmission setting *1	0000H
Switch 4	_	CH2 communications protocol	0000H
Switch 5	Module station number		0000H

\*1: Settings of CH1 and CH2 are indicated below.

Bit	Description	CH1 transmission setting	CH2transmission setting
b0	Operation setting	0 (independent)	0 (independent)
b1	Data bit	0 (7)	0 (7)

Bit	Description	CH1 transmission setting	CH2transmission setting
b2	Parity bit	0 (no) *3	0 (no) *3
b3	Odd/even parity	0 (odd) *3	0 (odd) *3
b4	Stop bit	0 (1)	0 (1)
b5	Sum check code	0 (no)	0 (no)
b6	Online change *2	0 (disable)	0 (disable)
b7	Setting change	0 (disable)	0 (disable)

\*2: When the communication protocol is set to GX Developer connection

(0H), the online change bit (b6) setting is made invalid to enable online change regardless of the online change setting.

\*3: Set the followings to odd:

"Parity bit" of the communication setting utility/"ActParity" of the ActQJ71C24 control property.

Setting CH1/CH2 communication protocol to GX Developer connection (0H) makes the communication speed/transmission settings to 0H (all OFF). Refer to the Q series-compatible C24 manual for details.



#### Module 1)

	Settings	Set Value	
ltem	b15 to b8	b7 to b0	Synchronous operation
Switch 1	CH1 communication speed	CH1 transmission setting *1	0726H
Switch 2	_	CH1 communications protocol	0008H
Switch 3	CH2 communication speed	CH2 transmission setting *1	0727H
Switch 4	_	CH2 communications protocol	0000Н
Switch 5	Module station number		As set by user

\*1: Settings of CH1 and CH2 are indicated below.

Bit	Description	Settings Synchronous operation			
		CH1 transmission setting	CH2 transmission setting		
b0	Operation setting				
		Match to module 2) s	setting.		
b1	Data bit				
		Match to module 2) setting.			
b2	Parity bit				
		Match to module 2) setting.			
b3	Odd/even parity				
		Match to module 2) s	setting.		
b4	Stop bit				
		Match to module 2) s	setting.		
b5	Sum check code				
		Match to module 2) s	setting.		
b6	Online change				
		Match to module 2) setting.			
b7	Setting change				
		Match to module 2) s	setting.		

#### Module 2)

	Settings	Set Value	
ltem	b15 to b8	b7 to b0	Synchronous operation
Switch 1	CH1 communication speed	CH1 transmission setting *1	0726H
Switch 2		CH1 communications protocol	0008H
Switch 3	CH2 communication speed	CH2 transmission setting *1	0727H
Switch 4	_	CH2 communications protocol	0000Н
Switch 5	Module station number		As set by user

\*1: Settings of CH1 and CH2 are indicated below.

Bit	Description	CH1 transmission setting	CH2transmission setting
b0	Operation setting	0 (independent)	1 (synchronous)
b1	Data bit	1 (8)	1 (8)
b2	Parity bit	1 (yes)	1 (yes)
b3	Odd/even parity	0 (odd)	0 (odd)
b4	Stop bit	0 (1)	0 (1)
b5	Sum check code	1 (yes)	1 (yes)
b6	Online change *2	0 (disable)	0 (disable)
b7	Setting change	0 (disable)	0 (disable)

\*2: When the communication protocol is set to GX Developer connection (0H), the online change bit (b6) setting is made invalid to enable online change regardless of the online change setting. Refer to the Q series-compatible C24 manual for details.

		Settings							
Switch (Switch Number)		Module 1)		Module 2)					
		CH1 side		CH2 s	ide	С	H1 side	С	H2 side
Mode setting	switch	0		5 (forr	nat 5)	5	(format 5)		
Station number setting switches		1			3	3			
	Operation setting switch (SW01)	OFF (indeper operation)	ndent	ON (s operat	ynchronous ion)	op	FF (indepe peration)	end	lent
	Data bit setting (SW02)	ON (8 bit)				0	N (8 bit)		
	Parity bit yes/no setting (SW03)	ON (yes)				0	N (yes)		
	Even parity/odd parity setting (SW04)	OFF (odd)			0	OFF (odd)			
	Stop bit setting (SW05)	OFF (1 bit)			0	OFF (1 bit)			
Transmissio	Sum check yes/no setting (SW06)	ON (yes)			ON (yes)				
n specification s setting	Online change enable/ disable setting (SW07)	ON (enable)			ON (enable)				
switches	Setting change enable/ disable setting (SW08)	OFF (disable)			OFF (disable)				
		19200bps				19	9200bps		
		SW	Set	tting			SW		Setting
	Tananakinaina ana ad	SW09	0	FF			SW09		OFF
	setting	SW10	C	N			SW10		ON
	(SW09 to SW12)	SW11	C	N			SW11		ON
		SW12	0	FF			SW12		OFF
	— (SW13 to 5 W15)		A C	All DF F				Ali Of F	

### 4.2.14 PLC FX Extended Port

Enter the settings for the serial port of an FX CPU.

### PLC side FX port parameters

Parameter	Values	Description
Module type	FX485BD/ADP	type of PLC C24 module
Station No.	0 - 15	station number of the PLC side interface
Transmission speed	300 - 19200	baudrate on the serial link
Parity	Odd, None, Even	parity
Data bit	7, 8	number of data bits in a byte
Stop bit	1, 2	number of stop bits
Sum check	Existence, None	enable/disable sumcheck
Control	DTR only, RTS only, DTR and RTS, DTR or RTS	handshake signals
Transmission wait time	1 - 65535	transmission timeout as multiple of 10 milliseconds



**Note:** The FX extended port is required when using computer link communication with FX0N, FX1S, FX1N(C), FX2N(C), FX3U(C)CPU.

MX	CommDTM-HART
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82

Communication Setting Wizard - PLC si	de			×
	Please select the PLC PLC side I/F FX Communication setting Module type Station No Transmission speed Parity Data bit Stop bit Sum check Control Transmission wait time	C side I/F extended port FX485BD/ADP 0 19200 0 dd 2 8 1 Existence DTR or RTS Corr	v bps bit bit 4 x10 ms	
Cancel	Back	>		

For a description of the editable parameters on the page see <u>PLC side FX port parameters</u>. Pressing the <Next> button opens a page for specifying an optional additional network layer.

Connected Station CPU	onnected ation PU		Relayed Station CPU					
FXCPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U		
	MELSECNET/H	x	х	х	0	x		
	MELSECNET/10	x	х	х	x	x		
	MELSECNET(II)	x	х	х	x	x		
	Ethernet	x	х	х	x	x		
	Computer link	x	x	х	x	о		
	CC-Link	0	х	х	x	x		
	CC-Link IE	x	x	х	x	x		

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

Before use the FX extended port must be configured for communication. There are two ways of configuring the FX extended port module:

1. use PLC parameters

2. write values to special data registers (D8120, D8121, D8129) in a sequence program. This is the only apporach for FX0N CPUs.

# Set PLC parameters

Start GX Developer or GX IEC Developer and select [Parameter]-[PLC parameter] in the project list. Then select the "PLC system (2)" tab.

FX parameter Memory expective Devices IPI C name IVO accomment IF	X
CH1 If the box is not checked, t Operate communication setting	he parameters will be cleared. fered to the communication board, parameters and hust be cleard upon program transfer.)
Protocol Dedicated protocol	Control line
Data length 7bit	H/W type RS-485
Parity Odd I	Control mode Invalid
Stop bit 1bit	Sum check
Transmission speed 19200 (bps)	Transmission control procedure Form1(without CR,LF)
Header	Station number setting 00 H (00H0FH)
Terminator	Time out judge time 1 ×10ms (1255)
Default	Check End Cancel

Item	Setting value
Operate communication setting	Check the corresponding check box.
Protocol	Dedicated protocol
Data length	As set by user.
Parity	As set by user.
Stop bit	As set by user.
Transmission speed	As set by user.
H/W type	RS-485
Sum check	As set by user.
Transmission control procedure	Form1

Item	Setting value
Station number setting	00H to 0FH
Time out judge time	1 to 255



 $\cdot\,$  When communication setting is made, power the FX CPU again after writing to the PLC.

 $\cdot\,$  When performing multi-drop connection, make the same communication settings for the devices. However, make sure that the station numbers do not overlap.

### Special data registers

1) D8120 (Communication format)

Bit	Description	Setting details					
	Data length	0: 7 bit 1: 8 bit					
b0	Data length						
			b2 b1				
b1	Derity	None	(	) 0		)	
	Panty	Odd number	(	)	1		
b2		Even number	,	1		1	
	Stan hit	0: 1 bit					
b3		1: 2 bit					
			b7	b6	b5	b4	1
b4	Transmission speed	300bps	0	0	1	1	
		600bps	0	1	0	0	]
b5		1200bps	0	1	0	1	
<b>b</b> C		2400bps	0	1	1	0	
DO	-	4800bps	0	1	1	1	
		9600bps	1	0	0	0	
b7		19200bps	1	0	0	1	
b8		0					
b9		0					
b10	-		, b1	1	bʻ	10	
b11	H/W type	RS-485	(	)	(	)	
b12		0					
b13	Sum check	0: N/A					

Bit	Description	Setting details	
		1: Available	
b14	Communication protocol	1: Computer link	
b15	Transmission control procedure	0: Form 1	

#### 2) D8121 (Station No. setting)

Specify the station No. in the range of 00H to 0FH

#### 3) D8129 (Time out judge time setting)

Specify the FX CPU timeout as a multiple of 10ms. The range depends on the CPU type:

СРИ Туре	Range
FX0N, FX1S and FX1N(C)	1 to 255 (10 to 2550ms)
FX2N(C)	1 to 3276 (10 to 32760ms)

A value of 0 corresponds to 100ms.



### Note:

when communication settings have been downloaded, reset the FX CPU
 when setting up a multi-drop connection, apply the same communication settings for all devices. However make sure that the station numbers do not overlap.

#### REMARK

The following shows an example of setting values to the special data registers by using GX Developer.

0	M8002		H6080	D8120	Э
			HOC	D8121	Э
		Емоч	D200	D8129	Э

The following shows the setting details of each special data register in the above program.

(1)D8120 Transmission control procedure : Form 1 Communication protocol : Computer link Sum check : Available H/W type : RS-485 Transmission speed : 9600bps Stop bit : 1 bit Parity : N/A Data length : 7 bit (2)D8121 Station No. : 12 (3)D8129 Time out time : 200ms

### 4.2.15 PLC Modem

Enter the settings for a modem interface module in the PLC.

# PLC side modem parameters

Parameter	Values	Description
Module type	<u>Q6TEL(QnA)</u> , <u>FXCPU</u> , <u>AJ71QC24N</u> , <u>QJ71C24</u> , <u>QJ71CMO</u>	type of PLC modem or serial interface module
Station No.	0 - 31	station number of the PLC side interface only for AJ71QC24N, QJ71C24, QJ71CMO
Transmission speed	300 - 115200	baudrate on the serial link only for AJ71QC24N, QJ71C24, QJ71CMO

### Q6TEL

Communication Setting Wizard - PL	C side	×
	Please select the PLC side I/F PLC side I/F Communication setting Module type Q6TEL(QnA)	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side modem parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

### Q6TEL CPU

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86

Connected Station CPU		Relayed Station CPU				
QnACPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	x	х	х	x	x
	MELSECNET/10	x	х	о	x	x
	MELSECNET(II)	x	х	0	x	x
о	Ethernet	x	х	0	x	x
	Computer link	x	х	0	x	x
	CC-Link	x	x	х	x	x
	CC-Link IE	x	x	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### AJ71QC24N / QJ71C24 / QJ71CMO

Communication Setting Wizard - PLC	side	×
Communication Setting Wizard - PLL s	Please select the PLC side I/F PLC side I/F Modem Communication setting Module type QJ71C24 Station No 0 Transmission speed 19200 bps	×
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side modem parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

### QJ71C24 CPU

Connected Station CPU		Relayed Station CPU					
QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	ο	x	х	х	х	
	MELSECNET/10	0	о	о	0	х	
	MELSECNET(II)	х	х	x	х	х	
0	Ethernet	0	х	о	х	х	
	Computer link	*2	х	о	х	х	
	CC-Link	0	0	0	0	х	
	CC-Link IE	*3	х	х	х	х	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 :For the Redundant PLC, access is disabled

\*3 : partially supported, depends on CPU type

### AJ71QC24 CPU

Connected Station CPU		Relayed Station CPU					
QCPU (Q mode)	Network Q		QCP U (A mode )	QnA CPU	ACP U *1	FXCP U	
	MELSECNET/H	x	х	х	x	x	
	MELSECNET/10	x	х	о	x	x	
	MELSECNET(II)	x	х	0	x	x	
о	Ethernet	x	х	0	x	x	
	Computer link	x	х	0	x	x	
	CC-Link	x	х	0	x	x	
	CC-Link IE	x	x	х	x	x	

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### FX CPU

88

89

Communication Setting Wizard	- PLC side	×
	Please select the PLC side I/F PLC side I/F Communication setting Module type FXCPU	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side modem parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

Connected Station CPU		Relayed Station CPU				
FXCPU	Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	x	х	х	х	х
	MELSECNET/10	x	х	х	х	x
	MELSECNET(II)	x	х	х	х	х
о	Ethernet	x	х	х	х	x
	Computer link	x	х	х	х	x
	CC-Link	x	х	х	x	x
	CC-Link IE	x	х	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### 4.2.16 PLC Ethernet Interface

Enter the settings for an Ethernet module in the PLC.

# PLC side Ethernet module parameters

Parameter	Values	Description
Connect module	<u>AJ71E71,</u> <u>AJ71QE71,</u> <u>QJ71E71, GOT,</u> <u>FX-ENET(-ADP),</u> <u>CPU module</u>	type of PLC ethernet module
Host (IP address)	nnn.nnn.nnn.nnn	IP address of the PLC side interface. This value must equal the address, which has been configured in the 'Network Parameters' of the PLC settings.
Network No	1 - 239	network number of the E71 ethernet module. This value can only be edited in the <u>'PC Ethernet board'</u> page. <b>only for QJ71E71 modules</b>
Station No.	1 - 64	station number of the PLC side interface. This value must equal the station number, which has been configured in the 'Network Parameters' of the PLC settings. <b>only for QJ71E71 modules</b>
Port No.	0 - 65535	free UDP port number on the PC side for data sent by the PLC. Port numbers below 1025 should not be used. only for AJ71E71 (UDP and TCP), AJ71QE71 (TCP), FX-ENET-ADP modules
CPU time out	1 - 65535	CPU timeout as multiple of 250 milliseconds only for AJ71E71 modules



The 'Next >' button is disabled, if no IP address has been entered.



Note:

Replacement of Ethernet modules

If the PLC Ethernet module has been replaced during Ethernet communication, the communication on the PC must be restarted, because Ethernet (MAC) address is different.

# AJ71E71

90

Communication Setting Wizard - Pl	LC side	×
	Please select the PLC side I/F	
	PLC side I/F Ethernet module	
	Communication setting	
	Module type AJ71E71	
	Host(IP Address)	
	Port No 1280	
	CPU time out 40 x250 ms	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side Ethernet module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

### AJ71QE71

Communication Setting Wizard - PLC	side	×
	Please select the PLC side I/F PLC side I/F Ethernet module Communication setting Module type AJ71QE71 Host(IP Address)	
	Port No 1280	
	CPU time out 40 x250 ms	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side Ethernet module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

# QJ71E71

Communication Setting Wizard	- PLC side	×
	Please select the PLC side I/F PLC side I/F Ethernet module Communication setting Module type QJ71E71 Host(IP Address) Network No 1 Station No 1	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side Ethernet module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

#### Unlocking password when using QJ71E71

If a password has been set in a QJ71E71 for remote access, the corresponding PLC cannot be accessed as target PLC. A password has however no effect, when the E71 module is used as a relay.



#### Use of Q4AR CPU

For using UDP/IP protocol the manufacture date (year and month) of the Q4AR CPU must be "0012" or later and the function version must be 'B' at least.

# GOT Module

Communication Setting Wizard - PLC	side	×
	Please select the PLC side I/F PLC side I/F Ethernet module Communication setting Module type GOT Host(IP Address)	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side Ethernet module parameters</u>. Pressing the <Next> button opens a <u>page</u> for entering a comment for the connection.

# **FX Ethernet Module**

Communication Setting Wizard	- PLC side	×
	Please select the PLC side I/F PLC side I/F Ethernet module Communication setting Module type FX-ENET Host(IP Address)	
Cancel	< Back Next >	

For a description of the editable parameters on the page see <u>PLC side Ethernet module parameters</u>. Pressing the <Next> button opens a <u>page</u> for specifying an optional additional network layer.

Because GX Developer and GX IEC Developer cannot configure the FX-ENET Ethernet module for FX3U(C) PLCs, there is another tool (FX Configurator-EN) to set up the communication parameters:

FX Configurator-EN (Unset fi File View Help	ile) - [Ethernet settings]		<u>=</u> D×
0 🖻 🖬 🎒			
Ethernet Mod	lule settings		
	Module None	•	
	Operational settings		
	Initial settings		
	Open settings		
	Router relay parameter		
	E-mail settings		
Necessary setting( No setting	ng / Alreadyset )	Default	
Set if it is needed( No settin	ng / Alreadyiset )	Check	
Online			
Transfer setup	PLC remote operation	Diagnostics	
Write	Read	Verify	
) Depdu			
кеаду			

(1) Select the module, up to 8 modules can be selected.

(2) Dialog to select the operational setting:

95

FX Configurator-EN (Unset file) - [     File View Help	Ethernet operational settings]	<u>-0×</u>
Communication data code	timing o not wait for OPEN ( Communications possible at STOP time ) ways wait for OPEN ( Communication possible at STOP time ) Send frame setting © Ethernet(V2.0) © IEEE802.3 TCP Existence confirmation setting © Use the KeepAlive © Use the Ping Cancel	
J Ready	N	JM//

### (3) Set the ethernet open setting:

Ē	FX Cor ile Viev	n <mark>figurator</mark> - w Help	EN (Unset file) - [Ethe	rnet open se	ttings]						-D×
Ī	D 🖻										
		Protocol	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.)	
L	1	тср 🔻	MELSOFT connection	•	<u> </u>	-	•				
L	2	-	· · · · · ·	· ·	-	•	•				
L	3	-		· ·	• •	• •	-				
L	5				· · · · · · · · · · · · · · · · · · ·						
L	6	-			•	-	•				
L	7	-		• •	•	-	·				
L	8	-	•	-	-	-	•				
	End Cancel										
R	eady									NUN	1 //.

(4) Dialog to select the router:

96

👪 FX Configura	ator-EN (Unset I	file) - [Etl	nernet rou	iter relay	parame	ter]	
File View Hel	P						
0 📽 🖬	6						
Router rela	ay function	Not used	l	•			
Sub-net m Router IP a	ask pattern & address input forr	nat DE	с. 💌				
Sub-net m	ask pattern	255	255	255	0		
Router IP a	address	10	225	123	10		
Yuuuui	End		<u> </u>	ancel			
 Ready						NUM	

(5) Transfer setup is used to download the Ethernet parameter to the FX-ENET. The transfer happens through the PLC, so that the corresponding setting should be selected, for example serial communication to transfer the Ethernet parameters.

The ethernet communication via FX-ENET-ADP for FX1S, FX1N(C) and FX2N(C) is configured through settings in special PLC devices.

Set the ethernet parameters to nine data registers from D1000 to D1008. If these data registers are used for any other purpose, the ethernet parameters can be set to nine registers 'D' starting from D2000, D3000, D4000, D5000, D6000 or D7000.

Data registers	Setting Item	Default parameter	Description
Dn000, Dn001	Header	-	Set H454E4554 ("ENET")
Dn002, Dn003	IP address	192.168.0.100	Set the IP address of the FX-ENET module
Dn004, Dn005	subnet mask	255.255.255.0	Set the sub net mask of the FX-ENET module
Dn006, Dn007	Gateway address	192.168.0.1	Set the gateway address ofthe FX-ENET module
Dn008	TCP port number	1024	Set the TCP port number within the range from 1024 to 65535

n: Choose any number in the range between 1 and 7

#### When a PLC program is used to set the ethernet parameters

The ethernet parameters for the FX-ENET-ADP can be set using the PLC program below:

#### Note:

In the FX-ENET-ADP the ethernet parameters become valid only when the power is turned ON and the setting data is stored in specified data registers. In any of the following cases, turn off the power of the PLC once, and turn it on again.



• when the setting of a parameter is changed during operation



# **PLC Ethernet CPU**

If TCP has been selected in the previous page, the following page is displayed:

MX Transfer Setup Wizard - PLC side	×
Please select the PLC side I/F         Communication s         Host(IP Address)         Find C	ne PLC side I/F CPU module etting 192.168.0.17 PU (Built-in Ethernet port) on network
Cancel < Back	Next >

The IP address of the Ethernet interface can be manually entered or looked up online. Pressing the 'Find CPU' button opens the 'Find CPU' dialog, in which the QnUDE CPUs in the local network are listed.

If **UDP** has been selected in the previous <u>page</u>, the additional option 'Ethernet port direct connection' is displayed.

MX Transfer Setup Wizard - PLC side		×
	Please select the PLC side I/F PLC side I/F CPU module Communication setting Ethernet port direct connection Host(IP Address) 192.168.0.51 Find CPU (Built-in Ethernet port) on network	
Cancel	< Back Next >	

If the option 'Ethernet port direct connection' has been selected, the Ethernet interfaces of PC and

PLC CPU must be connected point-to-point with a single cable. The IP address is not required for this type of connection and the corresponding input field is therefore disabled.

MX Transfer Setup Wizard - PLC side	×
Please select the PLC side I/F   PLC side I/F   Communication setting   If thermet port direct connection   Host(IP Address)   Find CPU (Built-in Ethernet port) on network	
Cancel < Back Next >	

#### **Find CPU**

Find CPU (Built	-in Ethernet port)				×		
IP address	PLC type	Label	Comment				
192.168.0.11	Q26UDEH	label 1	comment of CPU 1		ок		
192.168.0.12	Q06UDEH	label 2	comment of CPU 2				
192.168.0.13	Q26UDEH	label 3	comment of CPU 3		Cancel		
192.168.0.14	Q06UDEH	label 4	comment of CPU 4				
192.168.0.15	Q26UDEH	label 5	comment of CPU 5				
192.168.0.16	Q06UDEH	label 6	comment of CPU 6				
192.168.0.17	Q26UDEH	label 7	comment of CPU 7				
192.168.0.18	Q06UDEH	label 8	comment of CPU 8				
192.168.0.19	Q26UDEH	label 9	comment of CPU 9				
192.168.0.20	Q06UDEH	label 10	comment of CPU 10	-			
Finds CPU (Built-in Ethernet port) on the same network. This cannot be performed when the following happens:       Response waiting time(sec.)         - No response within response waiting time.       2         - Connected via a router or subnet mask is different.       2         - "Do not respond to search for CPU (Built-in Ethernet port)" is checked in PLC parameter.       Update							

This dialog lists the QnUDE CPUs found in the local Ethernet network. When a CPU in the list is selected and the **OK** button pressed, the IP address of the selected CPU is copied to the 'Host(IP Address)' field. By pressing '**Update**' the local Ethernet network is scanned again for QnUDE CPUs and the list is updated. The time to wait for CPUs to respond during the search is entered in the field '**Response waiting time**'.

### 4.2.17 PLC G4 Module

Enter the settings for a G4 module connected to the PC.

### PLC side G4 module parameters

Parameter	Values	Description
Mode	A, QnA, Q	type of PLC C24 module
Transmission speed	9600 - 115200	baudrate on the serial link available baudrates depend on selected mode
Control	DTR only, RTS only, DTR and RTS, DTR or RTS	handshake signals



**Note:** The CC-Link G4 module used in CC-Link G4 communication (only when the AJ65BT-G4 is used) must have software version 'D' or later. Modules with software version 'C' or earlier will not operate properly.

# G4 Module connected to PC

Communication Setting Wizard - PLC side

	Please select the PLC side I/F PLC side I/F G4 module Communication setting Mode A Transmission speed 9600  bps Control DTR or RTS Control				
Cancel < Back Next >					

For a description of the editable parameters on the page see <u>PLC side G4 module parameters</u>. Pressing the **<Next>** button opens a page for specifying an optional additional network layer.

### Q mode

×I

100

Connected Station CPU		Relaye	ed Stat	ion CP	יט	
QCPU (Q mode)	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	0	х	х	х	0
	MELSECNET/10	0	0	0	0	0
	MELSECNET(II)	х	х	х	х	0
	Ethernet	0	0	0	х	х
	Computer link	0	x	0	x	x
	CC-Link	х	x	х	x	x
	CC-Link IE	*2	x	х	x	x

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

\*2 : partially supported, depends on CPU type

### QnA mode

Connected Station CPU		Relay	ed Stat	ion CF	יט	
QnACPU	Relayed Network	QCP U (Q mode )	QCP U (A mode )	QnA CPU	ACP U *1	FXCP U
	MELSECNET/H	x	х	х	х	х
	MELSECNET/10	x	x	0	x	x
	MELSECNET(II)	x	х	о	x	x
	Ethernet	x	х	о	x	х
	Computer link	x	x	о	x	x
	CC-Link	x	x	x	x	x
	CC-Link IE	x	х	х	x	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

### A mode

102

Connected Station CPU		l J	Relaved	Relayed Station CPU				
QCP U (A mod e)	QnA CP U	A CPU *1	Network	QCP U (Q mod e)	QCP U (A mod e)	QnA CPU	ACP U *1	FX CPU
0	х	0	MELSECNET/H	х	х	х	х	х
			MELSECNET/10	х	х	х	х	х
			MELSECNET(II)	х	х	х	х	х
			Ethernet	x	x	х	х	х
			Computer link	х	х	х	х	х
			CC-Link	х	х	х	х	х
			CC-Link IE	х	х	х	х	х

o: Accessible

x: Inaccessible

\*1 : Including motion controller CPU

# Host station attached to G4 module

Communication Setting Wizard - Net	work		×
	Please select the Networl	k	
	Station type	Host station	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connect CPU series	Q	
<b>1111</b>	CPU type	Q02(H)	
	CC-Link module No	0	
	Multiple CPU	None	
		_	
Cancel	< Back Next >		

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

# Other station in a network attached to G4 module

### In a MELSECNET/10 network

Communication Setting Wizard - Network						
	Please select the Networ	'n				
	Station type	Other station				
	Connect station No Network Network route Mode MEL MEL	2 MELSECNET/10(H)				
Cancel < Back Next >						

Pressing the **<Next>** button opens a <u>page</u> for specifying the station type and address.

### In an Ethernet network

Communication Setting Wizard - Network						
	Please select the Networ	rk				
	Station type	Other station				
	Connect station No	2				
George Contraction	Network	Ethernet				
	Network route					
Cancel	< Back Next >	]				

Pressing the **<Next>** button opens a <u>page</u> for specifying the station type and address.

### In a C24 network

Communication Setting Wizard - Ne	twork		×		
	Please select the Network				
	Station type	Other station			
	Connect station No Network Network route Network type C24 I/O address 00000	2 C24			
Cancel < Back Next >					

Pressing the **Next**> button opens a <u>page</u> for specifying the station type and address.

### 4.2.18 Network

### Host station for CPU connections

Communication Setting Wizard - Netwo	rk	×
	Please select the Network	
	Station type Multiple CPU	None
Cancel	BackNext >	]
If the target PLC contains multiple CPUs, the number of the target CPU must be selected in the 'Multiple CPU' parameter. For details see <u>'Appendix Multi-CPU'</u>. Pressing the **<Next>** button opens a page for entering a comment for the connection.

## Host station for MELSECNET connections

Communication Setting Wizard - Network			×
	Please select the Network		
	Station type	Host station	
	Multiple CPU	None	
Cancel	Back Next >		

If the target PLC contains multiple CPUs, the number of the target CPU must be selected in the 'Multiple CPU' parameter. For details see <u>'Appendix Multi-CPU'</u>. Pressing the **<Next>** button opens a page for entering a comment for the connection.

## Host station for C24 connections

	Please select the Netwo	ork	
	Station type	Host station	•
	Connect CPU series	Q	•
	CPU type	Q02(H)	-
	Muttiple CPU	None	•
Cancel	< Back Next >	7	

Select the type of the target CPU. If the target PLC contains multiple CPUs, the number of the target CPU must be selected in the 'Multiple CPU' parameter. For details see <u>'Appendix Multi-CPU'</u>. Pressing the **<Next>** button opens a page for entering a comment for the connection.

## Host station for Ethernet connections

**MX CommDTM-HART** 

106

Communication Setting Wizard - Network			×
	Please select the Netwo	rk	_
	Station type	Host station	•
	Connect CPU series	QnA	•
	CPU type	Q2A	•
Cancel	r Back	7	

Transfer	Setup	
----------	-------	--

107

Communication Setting Wizard	l - Network		×
	Please select the Network	(	
	Station type	Host station	•
	Connect CPU series	Q	•
	CPU type	Q02(H)	•
	Multiple CPU	None	<u> </u>
に に 「 「 「 」 「 」 」 「 」 」 」 こうしょう しょうしょう しょう		None No 1	
		No.2	
		No.3	
		[140.4	
Cancel	< Back Next >	]	

Select the type of the target CPU and press the **<Next>** button to open a <u>page</u> for entering a comment for the connection.

Host station	l for modem	connections
--------------	-------------	-------------

Communication Setting Wizard - Network			×
	Please select the Network		
	Station type	Host station	
	Connect CPU series	QnA 🔹	
· · · · · · · · · · · · · · · · · · ·	CPU type	Q2A 🔹	
Cancel < E	Back Next >		

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

## Station in single network

Communication Setting Wizard - Networ	k		×
	Please select the Network		
	Please select the Network Station type	Other station(Single)	
Cancel < E	ack Next >		

Pressing the **<Next>** button opens a page for entering the MELSECNET address of the target PLC.

## Station in coexisting network

#### For MELSECNET/10 interfaces

Communication Setting Wizard - Network		
	Please select the Netwo	rk
	Connect CPU series	
	Connect CPU type	Q12PH
	Network	MELSECNET/10(H)
Cancel	< Back Next >	

Select the type of the coexisting network and press the **<Next>** button to open a <u>page</u> for entering parameters of the target PLC in the coexisting network.

Communication Setting Wizard - Network		
	Please select the Networ	k
	Station type	Other station(Coexistence)
	Connect CPU series	Q
	Connect CPU type	Q12PH
	Network	MELSECNET/10(H)
	Network route	
	Mode	SECNET/10
Cancel < Back Next >		

Select the type of the coexisting network and press the **<Next>** button to open a <u>page</u> for entering parameters of the target PLC in the coexisting network.

#### For CC-Link interfaces

Parameter	Values	Description
Connect station no.	0 - 64	station number of the CC-link module in the target station

Communication Setting Wizard -	Network	×
	Please select the Netwo Station type	rk Other station(Coexistence)
	Connect CPU series	Q 🗸
	Connect CPU type	Q12PH
	Connect station No Network	2 MELSECNET/10(H)
Cancel	< Back Next >	

Select the type of the coexisting network and press the **<Next>** button to open a <u>page</u> for entering parameters of the target PLC in the coexisting network.

#### For CC-Link IE interfaces

Communication Setting Wizard - Network			
	Please select the Network		
	Station type	Other station(Coexistence)	
	Connect CPU series	Q	
	Connect CPU type	Q02(H)	
	Network Network route Mode MELS	MELSECNET/10(H)	
Cancel	< Back Next >		

Select the type of the coexisting network and press the **<Next>** button to open a <u>page</u> for entering parameters of the target PLC in the coexisting network.

Station in MELSECNET/10 network

Communication Setting Wizard -	Network		×
	Please select the Netw	vork	
	Station type	Other station	•
	Network	MELSECNET/10(H) MELSECNET/10(H) MELSECNET(II)	·
Cancel	< Back Next >	·	

Select the type of the network, to which the target PLC is connected. Additionally the mode may also be selectable.

Communication Setting Wizard - N	etwork		×
	Please select the Ne	twork	
	Station type	Other station	
	Network - Network route Mode	MELSECNET/10(H) MELSECNET/10 MELSECNET/10 MELSECNET/H	
Cancel	< Back Nex	t≻	

Pressing the **<Next>** button opens a <u>page</u> for entering the MELSECNET address of the target PLC.

## Station in Ethernet network

112	MX CommDTM-HART
-----	-----------------

Communication Setting Wizard -	Network			×
	Please select the Netw	vork		
	Station type	Other station	•	
	Network	Ethernet MELSECNET/10(H) Ethernet C24 CC-Link		
Cancel	< Back Next >			

# Station in MELSECNET(II) network

Communication Setting Wizard - N	etwork		×
	Please select the Ne	twork	
	Station type	Other station	•
	Network	MELSECNET(II) MELSECNET/I 0(H) MELSECNET(II)	
Cancel	< Back Next		

 Note:

 When access is made to the QnACPU, AnUCPU, QCPU (A mode) or motion controller

CPU via the MELSECNET(II), the device range is equivalent to that of the AnACPU.

## Station in C24 multi drop network

Communication Setting Wizard - N	letwork		×
	Please select the	Network	
	Station type	Other station	•
	Network Network route	C24 Multidrop(independent)	Y
Cancel	< Back	√ext >	

Pressing the **<Next>** button opens a <u>page</u> for entering the station address of the target PLC in multi drop network.

## Station in FX multi drop network

114	MX CommDTM-HART
-----	-----------------

Communication Setting Wizard	- Network	×
	Please select the Net	work
	Station type	Other station Host station Other station
Cancel	Network route Network type Seck	Muttidrop

Pressing the **Next**> button opens a <u>page</u> for entering the station address of the target PLC in multi drop network.

## Network with C24 station

Parameter	Values	Description
Network type	C24	fixed
I/O address	I/O number divided by 0x10	module I/O address of connected station

Transfer	Setup	115

Communication Setting Wizard - N	etwork		×
	Please select the Net	work	-
	Station type	Other station	•
	Network Network route Network type I/O address	C24 C24 0000	•
Cancel	< Back Next	>	

# Network with CC-Link station

Parameter	Values	Description
I/O address	I/O number divided by 0x10	module I/O address of connected station

Communication Setting Wizard - N	etwork	×
	Please select the Network	
	Station type Other statio	n 🔹
	Network CC-Link	-
	Network route	
	I/O address	
Cancel	< Back Next >	

## Network with CC-Link IE station

Communication Setting Wizard - Netwo	ork		×
	Please select the Network		
	Station type	Other station	
	Network	CC-Link IE	
	-Network route		
Cancel	Back Next >		

## 4.2.19 Other station

This page is used to provide type and network address information of the target PLC in a multilayered network.

Parameter	Values	Description
CPU series	Q, QnA, A depending on previous choices	series of the CPU type
CPU type	see list of supported CPU types	type of PLC CPU module
Network No	1 - 239	network number of the target interface
Station No.	1 - 64	station number of the target interface

Station in same network for MELSECNET(II)

Communication Setting Wizard - Ot	her station		×
	Please select the (	Other station	
	⊢Other station setting	1	
	CPU series	QnA 🔹	
	CPU type	Q2A 💌	
	Station No	0	
Cancel	< Back Ne	xt >	

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

## Station in same network for C24 or FX

Communication Setting Wizard	- Other station	×
	Other station setting         CPU series       QnA         CPU type       Q2A         Station No       0	
Cancel	< Back Next >	

Communication Setting Wizard	- Other station	×
	Please select the Other station Other station setting CPU series Q CPU type Station No 0	
	Muttiple CPU	
Cancel	< Back Next >	

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

## Station in same network for CC-Link

Communication Setting Wizard - Oth	er station		×
	Please select the O Other station setting CPU series	ther station	
	CPU type Station No	Q01 ▼ 0	
Cancel	< Back Nex	d >	

Communication Setting Wizard - Othe	er station		×
	Please select the Other	station	
	Other station setting		7
	CPU series	Q 🗸	
	CPU type	Q02(H)	
	Station No	0	
	Multiple CPU	None	
Cancel	< Back Next >		

Pressing the **<Next>** button opens a <u>page</u> for entering a comment for the connection.

## Station in same or different network

Communication Setting Wizard - Other	station		×
	Please select the Other s Other station setting CPU series CPU type	station A Q02(H)-A I	
Cancel	Network No Station No Back Next >	2	

Communication Setting Wizard - Othe	er station		x
	Please select the Other	r station	
	Other station setting		1
	CPU series	Q _	
	CPU type	Q02(H) ▼	
	Network No	1	
	Station No	1	
	Multiple CPU	None	
Cancel	< Back Next >		

If the target PLC is in a different network, the network number of that network must be provided additionally to the station number of the target PLC. Pressing the **<Next>** button opens a page for entering a comment for the connection.

## 4.2.20 Enter Comment

Enter a comment to describe the configured PLC connection and test the PLC connection with the current settings.

Communication Setting Wizard - Finished 🛛 🛛 💌		
Image: Construction of the construction.         Image: Construction of the construction.         Image: Construction of the construction.         Image: Construction of the construction.         Image: Construction of the construction.         Image: Construction of the construction.         Image: Construction of the construction of th		
Cancel < Back Finish		

For modem connections to QJ71C24 and QJ71CMO modules a password may be required in order to gain access to the CPU. Enter the password, which has been set in the CPU parameters. For other connection types the password input field is disabled.

The password must not exceed four characters and can consist of alphanumerical characters and standard signs. Blanks are not allowed.

## Remote access password

The password for remote access via QJ71E71 and QJ71C24 is assigned in the CPU parameters of a GX Developer project and downloaded to the target PLC. Passwords set in any relaying units have no effect.

Project uata list	Remote password settings	
Q02_passwd         Program         Device comment         Parameter         PLC parameter         PLC parameter         Povice memory         Device memory         Device init	Password settings       Characters that can be used in passwerd 4 characters. Numbers, A-Z a-z, Special characters.         Password active module settings         Model name       StartXY         QJ71C24/CMO       0000         Image: Comparison of the setting	ord

Enter the same password in the 'Password' input field for the connection to gain access to the target PLC.

#### 4.3 **Communication Error Codes**

This chapter describes the error codes returned by the communication layer..

# Note:

If the four lower digits of the error code that occurred during Ethernet communication using the E71 or QE71 is not indicated in the E71 or QE71 manual, check the DIP switch (SW2) setting of the E71 or QE71.

If the DIP switch is not set correctly, a difference has occurred in the packet format (ASCII/binary) and therefore the error code returned from the module cannot be recognized correctly.

Error Code	Error Definition	Corrective action
0x01802002	Device number error The device character string number specified in the method is an unauthorised device number.	Review the device number.
0x01802003	Program Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	Sumcheck error The sumcheck value of the	Check the module side sumcheck setting. Check the sumcheck property of the control. Check the cable.
0x01802004	received data is abnormal.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802005	Size error The number of points specified in the method is unauthorised.	Check the number of points specified in the method. Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802006	Block number error The block specifying number in the device character string specified in the method is unauthorised.	Review the block specifying number in the device character string specified in the method.
0x01802007	Receive data error The data received is abnormal.	Review the system, e.g. PLC CPU, module setting and cable status. Check the cable. Exit the program and restart the IBM-PC/AT compatible.
0x01802008	Write Protect Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802009	Reading Parameters error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200 A	Writing Parameters error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200 B	PLC type mismatch The CPU type set to the property and the CPU type set on the communication settings utility do not match the CPU type on the other end of communication.	Set the correct CPU type as the CPU type of the property. Set the correct CPU type on the communication settings utility. Review the system, e.g. PLC CPU, module setting and cable status.

Error Code	Error Definition	Corrective action
0x0180200 C	Request Cancel Error The request was cancelled while being processed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200 D	Drive Name Error The specified drive name is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200 E	Beginning Step Error The beginning step specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200 F	Parameter Type Error The parameter type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802010	File Name Error The file name is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802011	Status Error The status of Registration/ Cancellation/Setting is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802012	Detailed Condition Field Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802013	Step Condition Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802014	Bit Device Condition Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802015	Parameter Settings Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x01802016	Error in specifying telephone exchange number. Method does not support the operations corresponding to the specified telephone exchange number.	Check the telephone exchange number. Check if the method being executed is supported or not. Check the system configuration such as PLC, unit, etc.
0x01802017	Keyword Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802018	Read/Write Flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802019	Refresh Method Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201 A	Buffer Access Method Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201 B	Start Mode/Stop Mode Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201 C	Written clock data error Clock data specified for write cannot be written properly since that data is in error.	Review the clock data to be written.
0x0180201 D	Online clock data write error Write of clock data failed. Clock data cannot be written since the PLC CPU is during RUN.	Place the PLC CPU in the STOP status.
0x0180201 E	ROM drive Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201 F	While Tracing error Invalid operation was carried	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	out during trace.	
0x01802020	First I/O number error The first I/O number specified in the method is an unauthorised value.	Check the value of the first I/O number specified in the method. Using the GPP function, check the PLC CPU parameters (I/O assignment). Exit the program and restart the IBM-PC/AT compatible.
0x01802021	First address error The buffer address specified in the method is an unauthorised value.	Check the value of the buffer address specified in the method. Exit the program and restart the IBM-PC/AT compatible.
0x01802022	Pattern Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802023	SFC Block No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802024	SFC Step No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802025	Step No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802026	Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802027	System Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802028	Error in number of TC settings Value	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802029	Clear Mode Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.

Error Code	Error Definition	Corrective action
		Inform the telephone center of our company.
0x0180202 A	Signal Flow Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202 B	Version Control Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202 C	Monitor Not Registered error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202 D	PI Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202 E	PI No Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202 F	Error in Number of PIs	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802030	Shift Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802031	File Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802032	Specified Unit error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802033	Error check flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.

Error Code	Error Definition	Corrective action
0x01802034	Step RUN operation error	Inform the telephone center of our company.
0x01802035	Step RUN data error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802036	During Step RUN error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802037	Write error while running program corresponding to E2PROM	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802038	Clock data read/write error The clock data read/write method was executed for the PLC CPU which does not have the clock devices.	Do not execute clock data read/write.
0x01802039	Trace not completed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203 A	Registration Clear Flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203 B	Operation error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203 C	Error in the number of exchanges	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203 D		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	Error in number of loops specified	
0x0180203		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
E	Retrieve data selection	Inform the telephone center of our company.
0x0180203		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
F	Error in number of SFC cycles	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802040	Motion PLC Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802041	Motion PLC Communication error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802042	Fixed execution time setting error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802043	Error in number of functions	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802044	System information specification error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802045	Registration Condition Not Formed error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802046	Function No. Error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802047	RAM drive error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802048	ROM drive error at the booting side	Inform the telephone center of our company.
0x01802040	Transfer mode specification	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01602049	error at the booting side	Inform the telephone center of our company.
0x0180204		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
A	Insufficient memory error	Inform the telephone center of our company.
0×0180204		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
B	Back up drive ROM error	Inform the telephone center of our company.
0×0180204		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
C	Block size error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180204 D	Detached during RUN state error	Inform the telephone center of our company.
0x0180204		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
E	Unit Already Registered error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180204 F	Password Registration Data Full error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802050	Password Not Registered error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802051	Remote Password Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802052	IP Address Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802053	Timeout value out of range error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802054	Command not detected error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802055	Trace execution type error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802056	Version error	Inform the telephone center of our company.
	Tracking cable error	
0x01802057	The tracking cable is faulty. The PLC CPU status is error.	Reexamine the system such as the PLC CPU, module setting and cable status.
	Keyword protection error	
0x0180205 C	PLC is protected by the key word.	Disable the keyword and execute again.
	Keyword disable error	
0x0180205 D	The inputted keyword is wrong.	Input a correct keyword.
0x0180205 F	Keyword protecting error PLC did not accept the protecting command	Execute again or re-switch the power of the

Error Code	Error Definition	Corrective action
	Keyword entry error	
0x0180205 F	An illegal character is included in the inputted keyword.	Input a correct keyword.
	Keyword deletion error	
0x01802060	The inputted keyword is wrong.	Input a correct keyword.
0x01808001	Multiple Open Error Open method was executed while it was open	Exit the program and restart the IBM-PC/AT compatible. Execute any method other than Open.
0x01808002	Channel number specifying error The port number set to the property and the port number set on the communication settings utility are unauthorised values.	Set the correct value to the port number of the property. Make communication settings again on the communication settings utility.
	Driver not yet started	
0x01808003	The network board driver is not started.	The network board driver is not started. Start the driver.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808004	Error in overlap event generation	Inform the telephone center of our company.
	MUTEX generation error	
0x01808005	Creation of MUTEX to exercise exclusive control failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
		Exit the program and restart the IBM-PC/AT
	Error in socket object generation	Inform the telephone center of our company.
0x01808006	Socket object could not be created	

Error Code	Error Definition	Corrective action
		Check for a running application which uses the same port number.
	Socket object generation error Creation of the Socket object	Retry after changing the port number value of the property.
0v01909007		Retry after changing the port number value on the communication settings utility.
0001000007		Make Ethernet board and protocol settings on the control
	failed.	panel of the OS.
		Exit the program and restart the IBM-PC/AT compatible.
		Review the IP address and port number values of the properties.
	Port connection error Establishment of connection failed. The other end does not respond.	Review the port number value on the communication
0x01808008		settings utility.
		Review the system, e.g. PLC CPU, module setting and cable status.
		Exit the program and restart the IBM-PC/AT compatible.
	COM port handle error	
	The handle of the COM port	
0x01808009	cannot be acquired. The COM port objet cannot be copied. The SOCKET object cannot be copied.	Check for an application which uses the COM port.
		Exit the program and restart the IBM-PC/AT compatible.
	Buffer size setting error	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS.
A	Setting of the COM port buffer size failed.	Exit the program and restart the IBM-PC/AT compatible.
	DCB value acquisition error	Check for an application which uses the COM port. Make COM port setting on the control
0x0180800 B	Acquisition of the COM port	panel of the OS.
	DCB value failed.	Exit the program and restart the IBM-PC/AT compatible.
	DCB setting error	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS.

Error Code	Error Definition	Corrective action
0x0180800 C	Setting of the COM port DCB value failed.	Exit the program and restart the IBM-PC/AT compatible.
		Review the time-out value of the property.
		Review the time-out value on the communication settings utility.
0x0180800 D	Time-out value setting error Setting of the COM port time-	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS.
	out value failed.	Exit the program and restart the IBM-PC/AT compatible.
	Shared memory open error	Check whether the GX Simulator has started.
0x0180800 E	Open processing of shared memory failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808101	Duplex close error	Exit the program and restart the IBM-PC/AT compatible.
	Handle close error	
0x01808102	Closing of the COM port handle failed.	Exit the program and restart the IBM-PC/AT compatible.
	Driver close error	
0x01808103	Closing of the driver handle failed.	Exit the program and restart the IBM-PC/AT compatible.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808104	Overlap Event Close Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808105	Mutex Handle Close Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808106	COM Port Handle Close Error	Inform the telephone center of our company.
		Review the system, e.g. PLC CPU, module setting and cable status.
0x01808201	Send error	Make COM port setting on the control panel of the OS. Make Ethernet board and protocol settings on the control panel.

Error Code	Error Definition	Corrective action
	Data send failed.	Retry the method.
		Exit the program and restart the IBM-PC/AT compatible.
	Send data size error	
0x01808202	Data send failed.	Exit the program and restart the IBM-PC/AT compatible.
	Queue clear error	Exit the program and restart the IBM-PC/AT
0x01808203	Clearing of the COM port queue failed.	compatible. Perform Close once and execute Open again.
		Review the system, e.g. PLC CPU, module setting and cable status.
		Review the time-out value of the property.
0x01808301	Receive error	Review the time-out value on the communication settings utility.
	Data receive failed.	Retry the method.
		Exit the program and restart the IBM-PC/AT compatible.
	Not Cost orres	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808302	Not Sent error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808303	Error in retrieving Overlap Event	Inform the telephone center of our company.
	Receive buffer size shortage	
	Receive data was larger than	
0x01808304	the receive buffer size prepared for the system.	Exit the program and restart the IBM-PC/AT compatible.
	Control error	
0x01808401	Changing of the COM port communication control failed.	Exit the program and restart the IBM-PC/AT compatible.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808402	Signal Line Control Error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x01808403	Signal line specifying error Changing of the COM port communication control failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808404	Open not yet executed	Execute Open. Exit the program and restart the IBM-PC/AT compatible.
0x01808405	Communication parameter error The data bit and stop bit combination of the properties is unauthorised.	Review the data bit and stop bit values of the properties. Set them again on the communication settings utility.
0x01808406	Transmission speed value specifying error The transmission speed of the property is unauthorised.	Review the transmission speed value of the property. Set it again on the communication settings utility.
0x01808407	Data length error The data bit value of the property is unauthorised.	Review the data bit value of the property. Set it again on the communication settings utility.
0x01808408	Parity specifying error The parity value of the property is unauthorised.	Review the parity value of the property. Set it again on the communication settings utility.
0x01808409	Stop bit specifying error The stop bit value of the property is unauthorised.	Review the stop bit value of the property. Set it again on the communication settings utility.
0x0180840 A	Communication control setting error The control value of the property is unauthorised.	Review the control value of the property. Set it again on the communication settings utility.
0x0180840 B	Time-out error Though the time-out period had elapsed, data could not be received.	Review the time-out value of the property. Set it again on the communication settings utility. Review the system, e.g. PLC CPU, module setting and cable status. Perform Close once and execute Open again. Exit the program and restart the IBM-PC/AT

Error Code	Error Definition	Corrective action
		compatible.
0x0180840 C	Connect error	Exit the program and restart the IBM-PC/AT compatible.
0x0180840 D	Duplex connect error	Exit the program and restart the IBM-PC/AT compatible.
	Attach failure	
0x0180840 E	Attaching of the socket object failed.	Exit the program and restart the IBM-PC/AT compatible.
0x0180840 F	Signal line status acquisition failure Acquisition of the COM port signal line status failed.	Exit the program and restart the IBM-PC/AT compatible.
	CD signal line OFF	Review the system, e.g. PLC CPU, module setting and cable status.
0x01808410	of communication is in the OFF status.	Exit the program and restart the IBM-PC/AT compatible.
0x01808411	Password mismatch error	Check the remote password of the property.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808412	TEL Communication Error	Inform the telephone center of our company.
	USB driver load error	Exit the program and restart the IBM-PC/AT
0x01808501	Loading of the USB driver failed.	compatible. Reinstall MX Component.
	USB driver connect error	Exit the program and restart the IBM-PC/AT
0x01808502	Connection of the USB driver failed.	compatible. Reinstall MX Component.
		Review the system, e.g. PLC CPU, module setting and cable status.
0.04000500		Make USB setting on the control panel (device manger) of the OS.
0x01808503	USB driver send error	Retry the method.
		Exit the program and restart the IBM-PC/AT compatible.
0x01808504		Review the system, e.g. PLC CPU, module setting and cable status.

138

Error Code	Error Definition	Corrective action
	USB driver receive error	Make USB setting on the control panel (device manger) of the OS.
	Data receive failed.	Retry the method.
		Exit the program and restart the IBM-PC/AT compatible.
		Recheck the timeout value.
0x01808505	USB Driver Timeout Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
		Inform the telephone center of our company.
	USB driver initialisation error	Make USB setting on the control panel (device manger) of the OS.
0x01808506	Initialisation of the USB driver failed.	Exit the program and restart the IBM-PC/AT compatible.
		Disconnect the cable once, then reconnect.
	Other USB error	Exit the program and restart the IBM-PC/AT
0x01808507	Error related to data send/ receive occurred.	compatible. Reinstall MX Component.
	Points Exceeded error	Reduce the no. of points registered by the monitor.
0x02000001	The number of points registered in the monitoring server is very	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
	high.	Inform the telephone center of our company.
	Shared memory creation error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x02000002	Failed in creating shared memory.	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x02000003	Shared memory access error	Inform the telephone center of our company.
	Memory Secure error	Close the other applications. Increase the system memory.
0x02000004	Failed in securing memory for the monitoring server.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
		Inform the telephone center of our company.

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Error Code	Error Definition	Corrective action
0x02000005	Device Not Registered error Monitor has not been registered	Register the monitor in the monitoring server. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000006	Monitoring Server Startup Error Monitoring Server is not started.	Start the Monitoring Server. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000010	Yet to retrieve Device Value error Monitoring is not yet completed	Try to retrieve the value again after waiting for a fixed amount of time. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000001	Command not Supported. Command is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000002	Memory Lock Error Failed while locking memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000003	Error Securing Memory Failed in securing the memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000004	DLL read error Failed in reading DLL.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000005	Error in securing Resources. Failed in securing the resources.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010001	File Creation Error	Check if there is enough space on the hard disk. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.

Error Code	Error Definition	Corrective action
	Failed in creating the file.	Inform the telephone center of our company.
0x03010002	File Open Error Failed to open the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010003	Buffer Size Error The buffer size specified is either incorrect or not enough.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010004	SIL Sentence formation error SIL sentence formation is incorrect.	Inform the telephone center of our company.
0x03010005	Filename Error The specified filename is too long.	Specify a shorter filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010006	File does not exist error. The specified file does not exist.	Check the filename. Check if the file exists or not. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010007	File Structure Error The data structure in the specified file is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010008	File already exists error The specified file already exists.	Check the filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company. Check the filename.
0x03010009	File does not exist error The specified file does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
		Exit the program and restart the IDM-FORT
Error Code	Error Definition	Corrective action
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0x0301000	File Deletion Error	compatible. Reinstall MX Component.
A	The specified file could not be deleted.	Inform the telephone center of our company.
0x0301000 B	Multiple Open Error The specified project has been opened twice.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000 C	Filename Error The specified filename is incorrect.	Check the filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000 D	File Read Error Falied in reading the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000 E	File Write Error Failed in writing the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000 F	File Seek Error File seek failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010010	File Close Error Failed while closing the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010011	Folder Creation Error Failed while creating the folder.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010012	File Copy Error Failed while copying the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010013	Project Path Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	The length of the project path is incorrect.	
0x03010014	Project Type Error The project type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010015	File Type Error The file type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010016	Sub-File Type Error The sub-file type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010017	Insufficient Disk space error The disk space is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020002	Multiple Open Error Tried to open DBProduct more than once.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020003	Not Opened error DBProduct is not opened.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020004	Extract Error DBProduct is not extracted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020010	Parameter Error The parameters of DBProduct are incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020011	Language Error The language parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03020012	Error in specifying Maker The maker parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020013	Error in specifying Unit The unit parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020014	SQL Parameter Error SIL, SQL Parameter of DBProduct is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020015	SIL Sentence formation error SIL sentence formation is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020016	Field Key Input Error The field key entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020050	Record Data Construction Error. Failed in reconstructing the record data of DBProduct.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020060	Error Retreiving Record Data Failed while retrieving DBProduct record data.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020061	Last Record error Cannot retrieve the next record since the current record is the last record.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000 0	Initialization error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0×0355000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
1	Not Initialized error	Inform the telephone center of our company.
0x03EE000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
2	Multiple Initialization error	Inform the telephone center of our company.
0x03FF000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
3	Workspace Initialization Error	Inform the telephone center of our company.
0x03EE000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
4	Database Initialization Error	Inform the telephone center of our company.
0x03EE000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
5	Recordset Initialization Error	Inform the telephone center of our company.
0x03EE000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
6	Error Closing Database	Inform the telephone center of our company.
0x03EE000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
7	Error Closing Recordset	Inform the telephone center of our company.
0x03FF000	Database Not Opened error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
8	Database is not opened.	Inform the telephone center of our company.
0×0355000	Recordset Not Opened error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
9	Recordset is not opened.	Inform the telephone center of our company.
	Table Initialization Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x03FF000 A	Failed in initializing TtableInformation table	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03FF000 B	Table Initialization Error Failed in initializing TfieldInformation table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000 C	Table Initialization Error Failed in initializing TrelationInformation table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000 D	Table Initialization Error Failed in initializing Tlanguage table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000 E	Table Initialization Error Failed in initializing Tmaker table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000 F	Table Initialization Error Failed in initializing TOpenDatabase table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF001 0	Field Value Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF001 1	Field Value Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF001 2	Exit Error Failed to exit the database.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF010 0	Moving Record error Failed while moving the record.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03FF010 1	Retreiving Record Count Error Failed to retrieve the record count.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF011 0	Retreiving Field Value Error Failed in retrieving the field value.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF011 1	Setting Field Value Error Failed in setting the field value.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FFFFF F	Other Errors	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000001	No command error The specified CPU type cannot be used to perform processing.	Check the CPU type set to ActCpuType. Check whether the system configuration is supported or not. Exist the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04000002	Memory lock error Failed in locking memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000003	Securing Memory Error Failed in securing the memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000004	Internal server DLL load error Start of the internal server failed.	Check for the deleted or moved installation file of MX Component. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04000005	Securing Resources Error Failed in securing the resources.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04000006	Error Loading Main Object Failed in reading the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000007	Error Loading Conversion Table Failed in reading table data.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000100	Incorrect Intermediate Code Size error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010001	Intermediate Code Not Converted error The converted machine code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010002	Intermediate Code Completion Error Intermediate code area of the code to be converted ended abruptly.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010003	Insufficient Intermediate Code error The intermediate code of the code to be converted was insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010004	Intermediate Code Data Error The intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010005	Intermediate Code Structure Error The number of steps in the intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010006	Error in Number of Steps The number of steps in comment intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

148

Error Code	Error Definition	Corrective action
0x04010007	Insufficient Storage Space for Machine Code error The storage space for machine code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010008	Other Errors (Other errors generated during the conversion of Intermediate code to machine code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011001	Machine Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011002	Machine Code Completion Error The machine code area to be converted ended abruptly.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011003	Abnormal Machine Code Could not convert since the machine code to be converted was abnormal.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011004	Insufficient Storage Space for Intermediate Code error The storage area for intermediate code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011005	Other Errors Other errors generated while converting machine code to Intermediate code.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020001	Text Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

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Error Code	Error Definition	Corrective action
0x04020002	No Input error The input list code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020003	Command Error The command name of list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020004	Device Error The device name of list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020005	Device Number Error The device number of the list code to be converted is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020006	Conversion Error The list code to be converted conversion could not be identified.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020007	Text Data Error The list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020008	Error in SFC Operation Output The output command of SFC operation is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020009	SFC Shift Condition Error SFC shift condition command is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000 A	Error in Statements between lines The statements entered between lines are incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0402000 B	P.I Statement Error The P.I statement entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000 C	Note Error The Note entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000 D	Comment Error The comment entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000 E	Other Errors (Other errors generated during the conversion of list to Intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021001	Intermediate Code Not Converted error The converted list code for one command has exceeded 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021002	Intermediate Code Area Full error Intermediate code area to be converted is full.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021003	Command Error The command specified by the intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021004	Device Error The device specified in the intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021005	Intermediate Code Error The structure of intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	Insufficient List Storage Space error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04021006	The space for storing the converted list code is insufficient.	Inform the telephone center of our company.
0x04021007	Other Errors (Other errors generated during the conversion of intermediate code to list)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030001	Not Converted error The storage space for converted intermediate code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030002	Bad Circuit Creation error The character memory circuit is not completed in a sequence.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030003	Specified Circuit Size Exceeded Specified circuit size is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030004	Incorrect Return Circuit error There is no consistency before and after the return circuit. The setting for the return circuit is too high.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030005	Other Errors (Other errors generated while converting from Character Memory to Intermediate Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031001	Not Converted error The size (vertical/horizontal) of the character memory specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04031002	Abnormal Command Code error The command intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031003	Bad Circuit Creation error Could not be converted to Sequence Circuit. There is no END command.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031004	Specified Circuit Size exceeded error Specified circuit size is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031005	Fatal Error Fatal Error has occured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031006	Insufficient number of storage blocks error The space to store the converted character memory circuit blocks is not sufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031007	Circuit Block Search Error Data is broken off in the circuit block.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031008	Other Errors (Other errors generated during the conversion of intermediate code to character memory)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040001	CAD Data Error There is no CAD data to be converted. The CAD data format is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040002	Output Data Error The input CAD data type and the output CAD data type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04040003	Library Load Error Failed to load the library.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040004	Storage Space Secure Error The space secured to store the converted data is not sufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040005	No END Command error There is no END command in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040006	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040007	Device No. Error The device number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040008	Step No. Error The step number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040009	The specified circuit size exceeded error. 1 circuit block is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000 A	Return Circuit Error The return circuit is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000 B	Bad Circuit Creation error The circuit data is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0404000 C	SFC Data Error The SFC data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000 D	List Data Error The list data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000 E	Comment Data Error The comment data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000 F	Statement Error The statement data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040010	Other Errors (Other errors generated during the conversion of CAD code to Intermediate code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041001	Intermediate Code Data Error There is no intermediate code to be converted. The format of the intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041002	CAD Data Type Error The input CAD data type and the output CAD data type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041003	Library Error Failed to load the library.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04041004	Insufficient Input Data error Data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041005	Insufficient Storage Space error There is not enough space to store the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041006	No END Command error There is no END command in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041007	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041008	Device No. Error The device number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041009	Step No. Error The step number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100 A	The specified circuit size exceeded error. 1 circuit block is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100 B	Return Circuit Error The return circuit is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100 C	Bad Circuit Creation error The circuit data is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0404100 D	SFC Data Error The SFC data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100 E	List Data Error The list data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100 F	Comment Data Error The comment data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041010	Statement Error The statement data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041011	Other Errors (Other errors generated during the conversion of Intermediate code to CAD code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A000 1	Insufficient Intermediate Code Storage Space The space to store the data after conversion is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A000 2	The space to store addition SFC information is not sufficient	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A000 3	Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A000 4	Non-SFC Program Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x040A100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
1	Step Not Used / No Output error	
0x040A100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
2	Step No out of range error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040A100 3	Step Not Used / No Output error	Inform the telephone center of our company.
0x0404100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
4	Transition No out of range.	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040A100 5	Maximum Number Exceeded error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040A100 6	Microcontroller Program space Error	Inform the telephone center of our company.
0x0404100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
7	Non-SFC Program Error	Inform the telephone center of our company.
0x040B000 1	Insufficient Intermediate Code Storage Space. The space to store the data after conversion	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B000 2	Сописто Било -	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
_	Conversion Error	

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 1	Failed in creating Step Start position table	Inform the telephone center of our company.
0x040B100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
2	Error Reading Step Information	Inform the telephone center of our company.
0×0408100		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
3	Step No. Error	Inform the telephone center of our company.
0x040B100	Failed in reading the output of operation/Transition condition	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
4	intermediate code error.	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 5	Securing Internal Work Area Failed error	Inform the telephone center of our company.
	Error in setting the maximum	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 6	value of X	Inform the telephone center of our company.
	direction for character memory	
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 7	Insufficient Internal Work Area error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 8	Stack Overflow, Abnormal Character Memory	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x040B100 9	Insufficient No of Storage Blocks error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x040B100 A	Non-SFC Program Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050001	Abnormal Character String Specified error Device character string specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050002	Device Points Error Device points are out of range	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050003	Other Errors (The errors generated during the conversion of the Device Character String to Device Intermediate Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04051001	Device Name Error The classification specified for the device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04051002	Device Name Error The classification specified for the extended specification device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04051003	Other Errors (The errors generated during the conversion of the Device Intermediate Code to Device Character String)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04052001	Abnormal Character String Specified error Device character string specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04052002	Device Points Error Device points are out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04052003	Other Errors (The errors generated during the conversion of the Device Character String to Device Representation Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053001	Device Representation Error The classification specified for the device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053002	Device Representation Error The classification specified for the extended specification device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053003	Device Representation Error The rectification part specified for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053004	Device Representation Error The rectification part specified for the extended device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053005	Other Errors (The errors generated during the conversion of the Device Representation Code to Device Character String)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04064001	Abnormal Device Intermediate Code error The intermediate code for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04064002	Other Errors (Other errors generated during the conversion of the Intermediate code for the Device to Device Name)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04065001	Abnormal Device Name error The classification specified for the intermediate code of the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04065002	Abnormal Device Name error The classification for the intermediate code of the extended specification device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04065003	Other Errors (Other errors generated during the conversion of the device name to Intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04066001	Device Intermediate Code Error The intermediate code for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04066002	Other Errors (Other errors generated during the conversion of the device intermediate code to device representation code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067001	Device Representation Error The classification specified for the intermediate code of the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067002	Device Representation Error The classification for the intermediate code of the extended specification device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067003	Device Representation Error The rectification part specified for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04067004	Device Representation Error The rectification part specified for the extended device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067005	Other Errors (Other errors generated during the conversion of device representation code to the device intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070001	Common Data Conversion Error The input data of the device comment conversion is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070002	Insufficient Common Data The data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071001	Error in PLC Data Conversion The input data of the device comment conversion is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071002	Insufficient PLC Data error The data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04072001	Open Error Failed in creating conversion object	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04072002	PLC Type Error The specified PLC type does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04072003	Not Converted error Converted object does not exist	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04072004	Input Data Error The input data is incorrect	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073001	Program Common Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073002	Program Common Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073101	Program PLC Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074001	Common Data Parameter Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074002	Network Parameter Common Data Error The parameter block exists, but the data inside is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074101	Parameter PLC Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	Network Parameter PLC Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074102	The parameter block exists, but the data inside is not set.	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074103	Offset Error	Inform the telephone center of our company.
	Error in Specifying Network Type	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074201	The PLC specified does not support the network type.	Inform the telephone center of our company.
	Parameter Block Number Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074202	The Block corresponding to the parameter block number specified does not exist.	Inform the telephone center of our company.
	Parameter Block Content Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074203	It is different from the content supported by the specified.	Inform the telephone center of our company.
	Parameter Plack Information	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074204	Error	Inform the telephone center of our company.
	The specified block number does not exist.	
	Default Parameter Plack is	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074205	Abnormal	Inform the telephone center of our company.
	The specified block number does not exist.	
	Error in Convorcion of the	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074301	Common Parameter Block	Inform the telephone center of our company.
	Error in Common Parameter Block No. 1001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074302	The value of the RUN-PAUSE settings existence flag is	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	incorrect.	
0x04074303	Error in Common Parameter Block No. 1003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074304	Error in Common Parameter Block No. 1008	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074305	Error in Common Parameter Block No. 1100	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074306	Error in Common Parameter Block No. 2001 The device intermediate code specified does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074307	Error in Common Parameter Block No. 3000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074308	Error in Common Parameter Block No. 3002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074309	Error in Common Parameter Block No. 3004 The settings for the annunciator display mode is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430 A	Error in Common Parameter Block No. 4000 I/O Allotment Data is not	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	created.	
0x0407430 B	Error in Common Parameter Block No. 5000 The specified network is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430 C	Error in Common Parameter Block No. 5001 Valid unit No is not set while accessing other exchange.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430 D	Error in Common Parameter Block No. 5002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430 E	Error in Common Parameter Block No. 5003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430 F	Error in Common Parameter Block No. 5NM0	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074310	Error in Common Parameter Block No. 5NM1	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074311	Error in Common Parameter Block No. 5NM2	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04074312	Error in Common Parameter	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074313	Error in Common Parameter Block No. 6000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074314	Error in Common Parameter Block No. FF18 Link parameter Capacity is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074315	Error in Common Parameter Block No. FF25 Calculation circuit check is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074316	Error in Common Parameter Block No. FF30 Sampling Trace Data is not created.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074317	Error in Common Parameter Block No. FF31 Status latch data is not created.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074318	Error in Common Parameter Block No. FF42 Timer processing points are not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074319	Error in Common Parameter Block No. FF30 Setting value device for specified extended timer does	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	not exist.	
0x0407431 A	Error in Common Parameter Block No. FF44	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431 B	Error in Common Parameter Block No. FF45	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431 C	Error in Common Parameter Block No. FF60 Terminal Settings are not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431 D	Error in Common Parameter Block No. FF70 User Release area is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074401	Error in Conversion of PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074402	Error in PLC Parameter Block No.1001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074403	Error in PLC Parameter Block No.1003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074404	Error in PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	No.1008	
0x04074405	Error in PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074406	Error in PLC Parameter Block No.2001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074407	Error in PLC Parameter Block No.3000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074408	Error in PLC Parameter Block No.3002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074409	Error in PLC Parameter Block No.3004	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440 A	Error in PLC Parameter Block No.4000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440 B	Error in PLC Parameter Block No.5000 The specified network type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407440 C	Error in PLC Parameter Block No.5001	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407440 D	Error in PLC Parameter Block No.5002	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407440 E	Error in PLC Parameter Block No.5003	Inform the telephone center of our company.
	Error in PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407440	No. 5NM0	Inform the telephone center of our company.
F	The specified network type is not supported.	
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074410	Error in PLC Parameter Block No. 5NM1	Inform the telephone center of our company.
	Frror in PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074411	No. 5NM2	Inform the telephone center of our company.
	The specified network type is not supported.	
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074412	Error in PLC Parameter Block No. 5NM3	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074413	Error in PLC Parameter Block No. 6000	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074414	Error in PLC Parameter Block No. FF18	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074415	Error in PLC Parameter Block No. FF25	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074416	Error in PLC Parameter Block No. FF30	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074417	Error in PLC Parameter Block No. FF31	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074418	Error in PLC Parameter Block No. FF42	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04074419	Error in PLC Parameter Block No. FF43	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407441 A	Error in PLC Parameter Block No. FF44	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407441 B	Error in PLC Parameter Block No. FF45	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0407441 C	Error in PLC Parameter Block No. FF60	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407441 D	Error in PLC Parameter Block No. FF70	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075001	Common Data Conversion Error Failed while converting the device memory settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075002	Common Data Conversion Error Failed while converting the device memory data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075003	Common Data Conversion Error Device memory data portion did not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075101	PLC Data Conversion Error Failed while converting the settings portion of the device memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075102	PLC Data Conversion Error Failed while converting the data portion of the device memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076001	Common Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076002	Common Data Conversion Error Failed while converting the data portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04076101	PLC Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076102	PLC Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077001	Common Data Conversion Error Failed during the conversion of sampling trace settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077002	Common Data Conversion Error Failed during the conversion of sampling trace data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077101	PLC Data Conversion Error Failed during the conversion of sampling trace settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077102	PLC Data Conversion Error Failed during the conversion of sampling trace data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078001	Common Data Conversion Error Failed in the conversion of the status latch settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078002	Common Data Conversion Error Failed in the conversion of the status latch data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078101	PLC Data Conversion Error Failed in the conversion of the status latch settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078102	PLC Data Conversion Error Failed in the conversion of the status latch data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04079101	Failure history PLC Data Conversion error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407A10 1	File List PLC Data Conversion Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407B10 1	Error Information PLC Data Conversion Error	Inform the telephone center of our company.
	Error in Conversion of Indirect Address to	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407C00	Device Name	Inform the telephone center of our company.
1	The device name storage area is not secured.	
	Error in Conversion of Device Name to Indirect	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407C00	Address	Inform the telephone center of our company.
2	Indirect Address storage area is not secured.	
	Error in Conversion of Indirect Address to	Exit the program and restart the IBM-PC/AT
0x0407C00	Device Representation	compatible. Reinstall MX Component.
3	The device representation storage area is not secured.	Inform the telephone center of our company.
	Error in Conversion of Device Representation to	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0407C00	Indirect Address	Inform the telephone center of our company.
4	Indirect Address storage area is not secured.	

Error Code	Error Definition	Corrective action
0x0407C00 5	Error in Conversion of Indirect Address to Device Character String Device Character String storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 6	Error in Conversion of Device Character String to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 7	Error in Conversion of Intermediate Code to Device Name Device Name storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 8	Error in Conversion of Device Name to Intermediate Code Intermediate Code storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 9	Error in Conversion of Intermediate Code to Device representation Device Representation storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 A	Error in Conversion of Device Representation to Intermediate Code Intermediate Code storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 B	Error in Conversion of Intermediate Code to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0407C00 C	Error in Conversion of Indirect Address to Intermediate Code Intermediate Code storage area	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 D	PLC Type Error The specified PLC type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 E	Device Character String Error The specified device is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00 F	Device Character String Error The specified device character string, type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C01 0	Device Error The specified device is not supported by the specified PLC	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C01 1	PLC Type Error The specified PLC is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C01 2	Device out of Range Error For AnA system, a device out of AnA system range was specified.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D00 1	Common Data Conversion Error Error in Conversion of SFC trace condition settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D00 2	Common Data Conversion Error Error in Conversion of SFC trace condition data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
Error Code	Error Definition	Corrective action
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0x0407D10 1	PLC Data Conversion Error Error in Conversion of SFC trace condition settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D10 2	PLC Data Conversion Error Error in Conversion of SFC trace condition data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04080001	Intermediate Code classification out of range error The intermediate code classification specified is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04080002	Extended specification Intermediate Code classification out of range error The extended specification intermediate code specified is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04080003	Device Points check absent error The device does not check the device points.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090001	GPP Project Error The specified PLC type and GPP project type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090002	File Type Error The specified GPP project type and file type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090010	Insufficient GPP Data to be converted There is no data to be converted. The data size specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
	Insufficient Storage Space for Converted Data	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04090011	The space for storing converted data is insufficient.	Inform the telephone center of our company.
0x04090012	Error in GPP Data to be converted The GPP data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090110	Insufficient Data to be converted error There is no data to be converted. The data size specified is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090111	Insufficient Storage Space for Converted Data error. The storage space for converted data is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090112	Error in data to be converted The data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04FFFFF F	Other Errors	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000001	No Command error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000002	Start of communication DLL of MX Component failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000003	Open failed. (DiskDrive)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000004	Duplex open error	Exit the program and restart the IBM-PC/AT compatible.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000005	File Access Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000006	Incorrect Folder Name error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000007	File Access Denied error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x1000008	Disk Full Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000009	File Delete Error	Inform the telephone center of our company.
0×100000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
A	Incorrect File Name error	Inform the telephone center of our company.
		Execute again after some time.
	Execution failed since another application or thread is making	Perform programming according to the multithread rules of
0x1000000 C	a request.	COM and ActiveX.
		Exit the program and restart the IBM-PC/AT compatible.
0x100000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
D	Folder Creation Error	Inform the telephone center of our company.
0x100000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
E	Folder/ File Type Error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x100000		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
F	Offset Address Error	Inform the telephone center of our company.
0x10000010	Request Cancel	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000011	Memory securing error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000012	Open not yet executed	Exit the program and restart the IBM-PC/AT compatible.
0v10000013		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000013	Attach Not Executed error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000014	Object Invalid error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000015	Request Cancel Failed error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000016	Failed in Reading Status error	Inform the telephone center of our company.
	The specified size (number of devices) is unauthorised.	Check the number of points specified in the method.
0x10000017		Exit the program and restart the IBM-PC/AT compatible.
0x10000018	There is no registered device.	Exit the program and restart the IBM-PC/AT compatible.
010000010		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000019	Dataset Not Executed	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x1000001		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
A	Read Not Executed error	Inform the telephone center of our company.
0x1000001		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
B	Incorrect Create Flag error	Inform the telephone center of our company.
0×1000001		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
C	Operation Over Access	Inform the telephone center of our company.
0×1000001		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
D	Redundant Device error	Inform the telephone center of our company.
0x1000001 E	Registry search failed.	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area. Reinstall MX Component.
0x1000001		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
F	File Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000020	Device Memory Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000021	Program Range Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000022	TEL Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000023	TEL Access Error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000024	Cancel Flag Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000030	Multiple Device Registration Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000031	Device Not Registered error	Inform the telephone center of our company.
		Review the specified device data.
0x10000032	Specified device error	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
		Review the specified device data.
0x10000033	Specified device range error	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000034	File Write Error	Inform the telephone center of our company.
0.40000040	Server start failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000040		Inform the telephone center of our company.
	Server Stop Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000041	Failed while stopping the server	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000042	Server Started Twice error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000043	Server Not Started error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000044	Resource Timeout Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000045	Server Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000046	Failed to Access Server error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000047	Server Already Accessed error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000048	Failed in Simulator Startup	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000049	Failed in exiting Simulator	Inform the telephone center of our company.
0.4000004		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x1000004 A	Simulator Not Started error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x1000004 B	Simulator Type Error	Inform the telephone center of our company.
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x1000004 C	Simulator Not Supported error	Inform the telephone center of our company.
0.4000004		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
D	Simulator Started Twice error	Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
		Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x1000004 E	Shared Memory Not Started error	Inform the telephone center of our company.
	No-license error	
0xF000000	The license is not given to the IBM-PC/AT	Using the license FD, give the license to the IBM-PC/AT
	compatible.	compatible.
	Set data read error	Specify the correct logical station number.
0xF000000 2	Reading of the set data of the logical station number failed.	Set the logical station number on the communication settings utility.
	Already open error	
0xF000000 3	The Open method was executed in the open status.	When changing the communication target CPU, execute the Open method after performing Close.
	Not yet open error	After executing the Open method, execute the
0xF000000 4	The Open method is not yet executed.	corresponding method.
	Initialisation error	
0xF000000	Initialisation of the object possessed internally in	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
5	MX Component failed.	
	Memory securing error	
0xF000000 6	Securing of MX Component internal memory failed.	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
0,75000000	Function non-support error	Can not use because the corresponding method is not
7		supported.

Error Code	Error Definition	Corrective action
0xF100000 1	Character code conversion error Character code conversion (UNICODE ASCII code or ASCII code UNICODE) failed.	Check the character string specified in the method. The ASCII character string acquired from the PLC CPU is abnormal. Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible. Retry the GetCpuType method.
0xF100000 2	First I/O number error The first I/O number specified is an unauthorised value. A matching first I/O number does not exist.	Check the value of the first I/O number specified in the method. Using the GPP function, check the PLC CPU parameters (I/O assignment).
0xF100000 3	Buffer address error The buffer address specified is an unauthorised value. The buffer address is outside the range.	Check the value of the buffer address specified in the method.
0xF100000 4	Buffer read size error As a result of buffer read, the specified size could not be acquired.	Perform reopen processing. Review the system, e.g. PLC CPU, module setting and cable status. Retry. Exit the program.
0xF100000 5	Size error The size specified in the read/ write method is abnormal. The read/write first number plus size exceeds the device or buffer area.	Check the size specified in the method.
0xF100000 6	Operation error The operation specified for remote operation is an abnormal value.	Check the operation specifying value specified in the method.

Error Code	Error Definition	Corrective action
0xF100000 7	Clock data error The clock data is abnormal.	Check the clock data specified in the method. Set the correct clock data to the clock data of the PLC CPU.
0xE100000	Monitored device registration count excess The number of device points registered in the EntryDeviceStatus method was 0 or less.	Register the device points between 1 and 20 in the
8	The number of device points registered in the EntryDeviceStatus method was more than 20.	EntryDeviceStaus method.
0xF100000 9	Monitored device data registration error	After making deregistration in the FreeDeviceStatus method, execute the EntryDeviceStatus method again.
0xF100001 0	Device status monitor processing failed to start. Device status monitor processing failed to end.	Start/end the device status monitor processing again in the EntryDeviceStatus method.
		Reexamine the data type specified for the VARIANT
0xF100001 1	The VARIANT argument data type is wrong.	argument.
		Check whether the data type specified in the corresponding method has been set.
0xF100001 2	The device status monitoring time interval is a value outside the range 1 second to 1 hour (1 to 3600).	Specify the device status monitoring time between 1 and 3600.
0xF100001 3	Already Connected error. Connect was executed again after it was executed for the same object.	Execute the Connect method after executing the Disconnect method.

Error Code	Error Definition	Corrective action
0xF100001 4	Invalid Telephone Number error. Characters other than "0123456789-*#" that are allowed for telephone numbers are included.	Rectify the Telephone number and try to Connect again.
0xF100001 5	Exclusive Control Failure error. There was failure in the exclusive control process while executing the Connect and Disconnect method.	In case if Connect/Disconnect method is being executed for any other object, execute the failed method (Connect/Disconnect) again after the completion of the Connect/ Disconnect method of that object. If the Connect/Disconnect process is in progress only for the self object, perform the following. Exit the program. Restart the IBM-PC/AT compatible. Reinstall MX Component.
0xF100001 6	While connecting to the telephone line error. The telephone line is connected to some other application, other than the one using MXComponent.	Try Connecting again after disconnecting the application that is using the telephone line.
0xF100001 7	Telephone line not connected error. Telephone line is not connected. Connect was executed and the telephone line was connected, but it got disconnected due to some reason.	<ul> <li>(When Connect method has failed)</li> <li>Execute Connect again after executing Disconnect method.</li> <li>(When method other than Connect has failed)</li> <li>Execute Disconnect method, Execute Connect and connect to the telephone line. After connecting, execute</li> <li>the method that failed once again.</li> </ul>

Error Code	Error Definition	Corrective action
	No Telephone number error. The telephone No. is not set.	In case of program settings type,set the telephone No. to the property ActDialNumber.
	The telephone No. or call back No. is not set,if the connection method is Automatic (when specifying the call back No.), call back connection (when specifying	(Set the telephone No. to the properties ActDialNumber and ActCallbackNumber, if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the number).)
8	Request(when specifying the number).	In case of utility settings type,set the telephone No. using the wizard.
		(Set the telephone No. and call back No. , if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the
		number).)
	Not Closed error.	
0xF100001 9	Disconnect was executed while in Open state.	Try Disconnect again after executing Close.
	Target telephone line connection mismatch error.	
	Connect was tried for a different telephone	If you want to connect to a different telephone number, Execute Disconnect with respect to
	number using the port which is already connected to a telephone line.	the telephone line that is already connected and executes Connect after it gets disconnected. In case of connecting the
0xF100001 A	(When the method of connection is a callback	telephone line with callback reception, use the Connect of
	reception, it is considered that the telephone number is different from methods of connection	the connection method that is executed at the earliest in the same port as callback reception.
	in other than the callback reception.)	
	Control Type Mismatch error.	
0xF100001 B	An object, whose control type is different from that of the object already connected to the	Execute Disconnect for the object currently connected to the telephone line and execute Connect once again after the telephone line
	telephone line, tried to Connect.	gets disconnected.

Error Code	Error Definition	Corrective action		
0xF100001 C	Not Disconnected error. When Disconnect method is executed for the object connected to the telephone line, it is found that other objects are in connected state.	Execute Disconnect for all the Connected objects. Try Disconnect again for the object that actually performed the telephone line connection.		
0xF100001 D	Not Connected error. Open was executed before Connect Or, Disconnect was executed.	Execute Open again after executing Connect. Or execute Disconnect again after executing Connect.		
0xF100001 E Fatal Error.		Exit the program. Restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.		
0xF100001 F	Open time setting error There is some difference in telephone number and the port number settings used during Connect and Open.There is some error in Connect way.	Check the telephone number and the port number. Check the Connect way.		
0xF200000 2	There is an error response from the target telephone. Causes can be the following. * Communication error has occurred.	Check the value of the properties set in case of program settings type and check the contents of the detailed settings that were set using the wizard in case of utility settings type.		
0xF200000 3	Invalid data was received. Causes can be the following. * Incorrect data packet received due to noise. * Communicated with a device other than A(Q)6TEL/C24.	Retry. Check the communication device used at the other end.		

Error Code	Error Definition	Corrective action	
0xF200000 4	There is no response from the modem. Causes can be the following. Abnormality in the modem. Telephone number setting mistake.	Check the status of the modem. Check the telephone number. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc., which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type	
0xF200000 5		Check the line.	
0xF200000 6 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Check the contents of the AT command. Check the status of the modem.	
0xF200000 7	Modem did not respond properly to the standard escape command.	Check the modem. Confirm whether the value of the time-out is too small. ( 5000ms or more is recommended. )	
OxF200000Modem does not respond properly to the line0xF200000Disconnect command		Check the modem.	

Error Code	Error Definition	Corrective action		
0xF200000 A 0xF200000 B	Target did not receive the signal. * The Receive settings of the modem at the other end may be incorrect. * The other end may be busy. * The telephone number may be incorrect. Timeout reached for the call back receive waiting time.	Check the Receive settings of the modem at the other end. Check if the other end is busy. Check the telephone number. Increase the call back receive waiting time ActCallbackReveptionWaitingTimeOut and execute connect again.		
0xF200000 C		Set the password to ActPassword property and execute the failed method again.		
0xF201000 1	The callback line disconnect wait time is other than 0 -180 Seconds. The callback execution delay time is other than 0 -1800 Seconds. The telephone number is more than 62 characters.	Check whether the callback line disconnect wait time is with in 0 – 180 Seconds. Check whether the callback execution delay time is with in 0 - 1800 Seconds. Check whether the telephone number is less than or equal to 62 characters. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.		
0xF201000 2	QJ71C24 did not receive the specified connection method. Causes can be the following. * Incorrect Connection method. * Incorrect telephone number for Call back.	Check whether the settings of QJ71C24 and the MXComponent are matching.		

QJ71C24 does not permit the automatic connection (during fixed Call back or when the number is specified.)	Check the settings of QJ71C24.	
There are chances that the line is not disconnected	If there is no problem with the modem or the telephone	
	line, change the value of the properties set (Properties like ActConnectionCDWaitTime etc., which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.	
There was no response from the modem for the data sent from the PC.	Change the value of the properties set (Properties such as ActConnectionCDWaitTime etc., which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.	
Modem did not receive the startup command AT.	Change the settings of the property ActATCommand. in case of program settings type and change the command AT that were set using the wizard in case of utility settings type.	
The PC modem does not respond to the Escape command.	If there is no problem with the modem or the telephone line, change the value of the properties set (Properties like ActConnectionCDWaitTime etc., which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case	
	QJ71C24 does not permit the automatic connection (during fixed Call back or when the number is specified.) There are chances that the line is not disconnected There was no response from the modem for the data sent from the PC. Modem did not receive the startup command AT. The PC modem does not respond to the Escape command.	

Error Code	Error Definition	Corrective action		
0xF21000**	There is no response from the modem. Causes can be the following. Abnormality in the modem. Telephone number setting mistake.	Check the status of the modem. Check the telephone number. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.		
0xF21001**	There is no response from A(Q) 6TEL/C24. Causes can be the following. Setting mistake w.r.t. A(Q) 6TEL/C24 A(Q)6TEL/C24 got connected to a non-existant modem.	Re-examine the settings of A(Q)6TEL/C24. Confirm whether the modem exists. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.		
0xF202****	There was a communication failure. Following causes can be considered depending on the status. Communication time over (Break in cable, the specified port not supported, mistake in specifying the COM port) Modem's power is switched OFF	Check whether the cable is broken. Check whether the specified port is not supported. Check whether correct COM port is set. Check if the modem power is switched OFF. For detailed troubleshooting, please refer to the details of the error code got after replacing the first four digits with "0x0180". eg In case of "0xF202480B", please refer to the code "0x0180480B".		

## 4.4 Special Setups

### 4.4.1 Communication with Multi-CPU Systems

For a multi-CPU system the user must specify the CPU number of the target CPU, i.e. the last accessed station.

When making access to the non-control CPU of the relay module on the accessed station, use the modules of function version B as the relay modules and Q-CPUs (Q mode) on the own station, all relay stations and accessed station.

### (Example 1) CPU COM communication

194	MX CommDTM-HART
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Communication Setting Wizard - Network					
	Please select the Network	(			
	Station type	Host station			
	Multiple CPU	No.3			
Cancel	< Back Next >	]			

When the user has selected 'No. 3' (0x3E2) in the 'Multiple CPU' field, the connection is established to the third CPU in the rack, marked as (3) in the following figure.



### (Example 2) CPU COM communication (via MELSECNET/H)

Communication Setting Wizard - Ot	Communication Setting Wizard - Other station					
	Please select the O	ther station				
	⊢Other station setting		_			
	CPU series	Q 🗸				
	CPU type	Q02(H)				
	Network No	2				
	Station No	2				
	Multiple CPU	No.3				
Cancel	< Back Nex	t >				

When the user has selected 'No. 3' (0x3E2) in the 'Multiple CPU' field and entered '2' for network and station number, the connection is established to the third CPU in the 'Last access target' rack, marked as (3)' and grayed in the following figure.

The CPU number in the 'Relay station' rack cannot be specified. Therefore, if '1' has been entered as network number for the sample below, an error will occur, because the network number controlled by the CPU (2) is only '2'.



### 4.4.2 Restrictions with Q00, Q00J and Q01 CPUs

The number of network modules is restricted for Q00J, Q00 and Q01 CPUs.

Type of Network Module	Max. Number of Modules	
MELSECNET/H module	1 module	
Ethernet module	1 module	
CC-Link module(Function version B or later)	2 modules	

The following figures mark network architectures for Ethernet and MELSECNET/H, which are not supported in combination with Q00J, Q00 and Q01 CPUs.



### 4.4.3 Redundant CPUs

The following text describes the configuration for accessing redundant Q series PLC systems, i.e. Q12PRH and Q25PRH.

(1) Target system

Communication Setting Wizard	- Network	×
	Please select the Network	
	Station type	Host station
	Target system	Control system Control system None
Cancel	< Back Next >	

As 'Target system' either 'Control system' or 'None' can be selected.

Parameter	Values	Description		
Target	Control system	Connects to the control system and maintains access to the control system after switching control and standby CPU		
system	None	Connects to the target PLC CPU independently of whether it is control or standby system		

**Note:** to determine which CPU in the redundant PLC system is being accessed, the following special relays can be checked.

(1) To distinguish, whether system A or B are accessed

SM1511	System A identification flag	<ul> <li>identifies system A/system B of a redundant system.</li> <li>remains ON/OFF even if the tracking cable is disconnected while the redundant system is running.</li> </ul>				
	System B			System A	System B	during TRK.CABLE ERR. (= code 6120) (System not determined)
SM1512	flag		SM1511	ON	OFF	OFF
			SM1512	OFF	ON	OFF
		`				-

(2) When checking the operation system status

SM1515	Control/ Standby system status	<ul> <li>indicates the CPU module operation status</li> <li>remains ON/OFF even if the tracking cable is disconnected while the redundant system is running.</li> </ul>				
SM1516				Control system	Standby system	during TRK.CABLE ERR. (= code 6120) (System not determined)
			SM1515	ON	OFF	OFF
			SM1516	OFF	ON	OFF

## (2) Operation at occurrence of system switching

When system switching occurs during access to the redundant CPU and 'Control system' has been selected as target system, access is continued as described below.

(a) Connection via other than MELSECNET/H or Ethernet

Access to the control system after system switching is continued.



(b) Connection to MELSECNET/H or Ethernet

Access to the control system after system switching is continued as shown below, depending on whether a communication error occurs or not.

The following shows an example of Ethernet connection.

<When communication is normal>



<When communication error occurs>



**Note**: in the case of Ethernet connection, it may take time from when a communication error occurs until communication starts after connection to the control system.

### (3) Automatic switching of communication route

If a communication error occurs during access to the redundant CPU via a MELSECNET/H or Ethernet network, the

communication route is automatically switched to continue access to the control system. In the following text this automatic switching of the communication route is referred to as 'route switching'.

The following describes the route switching conditions, how to check for route switching occurrence, and examples of access by route switching.

#### (a) Route switching conditions

When access is being made under the following conditions, access to the Redundant CPU is continued by route switching if a communication error occurs.

Mode	Conditions for continued access
Operation mode	Backup mode, Separate mode
Target system	Control system

However, if a tracking error had already occurred at a start of communication (caused for example by power off or reset of the redundant system), access to the control system is not continued by route switching even if tracking is recovered after that.

# (b) How to check for route switching occurrence and examples of access by route switching

#### 1) How to check whether route switching occurred or not

Special devices and registers allow to detect whether route switching has occurred.

SM1600 <sup>1</sup>	SD1590 2	SD1690 2	Possibility of route switching	Reference
OFF	either one is other than 0		Since a system switching request from the network module was detected, route switching may have been executed.	see example 1
ON	0	0	Since an other system fault occurred, route switching may have been executed.	see example 2
ON	either one is other than 0		Since an other system fault occurred or a system switching request from the network module was detected, route switching may have been executed.	see example 1 and 2

<sup>1</sup>: even if SM1600 is ON, route switching does not occur when the CPU is not accessed via the tracking cable. <sup>2</sup>: when using SM1600, SD1590 and SD1690 to estimate whether route switching has occurred or not for the Redundant CPU connected to Ethernet, check the following items in the redundant setting of the network parameter dialog box of GX Developer.

 $\cdot issue \ a \ system \ switching \ request \ at \ disconnection \ detection.$ 

 $\cdot issue \ a \ system \ switching \ request \ at \ communication \ error.$ 

Check the following based on the states of the above special relay and special registers and remove the error cause.

- · Check the Redundant CPU for an error.
- · Check the tracking cable status and whether the tracking cable is correctly connected.

 $\cdot\,$  Check the relevant network module for an error and the network where the relevant network module is connected for an error.

#### 2) Examples of access by route switching

The following shows examples of route switching during access to the control system by Ethernet connection.

When system switching occurs at communication error:



When standby system fault occurs:



**Note**: the following table indicates details of the special relay and special registers to be monitored when estimating whether route switching occurred or not.

Device	Meaning	Explanation
SM1600	Other system error flag	$\cdot$ turns on when an error occurs during redundant system error check. (Turns on when either of bits for SD1600.)
	OFF: No error	· remains off when no errors are present.
	ON: Error	

Device	Meaning	Explanation
	Module no. for network module requesting route switching in host system	<ul> <li>• any of the following bits turns on corresponding to module No. for network module requesting route switching in host system.</li> <li>• turns off by the system after recovery from error of the relevant module by user.</li> </ul>
SD1590		<ul> <li>SD1590 0 0/1 ··· 0/10 1: ON</li> <li>SD1590 0 0/1 ··· 0/10 1: ON</li> <li>Module No. 0: Invalid, as CPU module uses 2 slots.</li> <li>Module No. 1: Indicates the module to the right of CPU module</li> <li>Module No. 11: Indicates the module at the right end of a 12-I/O slot base (Q312B)</li> <li>refer to SD1690 for module No. for network module requesting route switching in other system.</li> </ul>
SD1690	Module no. for network module requesting route switching in other system	<ul> <li>any of the following bits turns on corresponding to module No. for network module requesting route switching in other system.</li> <li>turns off by the system after recovery from error of the relevant module by user.</li> </ul> Bit status <ul> <li>0: OFF</li> <li>1: ON</li> </ul> Bit status <ul> <li>0: OFF</li> <li>1: ON</li> </ul> Module No. 0: Invalid, as CPU module uses 2 slots. Module No. 1: Indicates the module to the right of CPU module to the right of a 12-I/O slot base (Q312B) <ul> <li>refer to SD1590 for module no. for network module requesting</li> </ul>
		route switching in host system.

## 5 Troubleshooting

### 5.1 After updating the DTM catalogue the installed CommDTM is not listed

#### Situation:

After successful installation of MX CommDTM-HART on the engineering PC and updating the DTM catalogue in PACTware ™ the user cannot find the CommDTM in the device list of new found devices.

#### Solution:

- Open a DOS command window from the Start/Run menu item in the installation directory of the CommDTM
- Execute the following command: regsvr32 MXCommDTM-HART.dll
- Restart the FDT frame application and select 'Device Catalogue' -> 'Update device catalogue' -> now the new installed CommDTM should be listed

### 5.2 Fails to connect to module

#### Situation:

When selecting 'Connect' from the CommDTM context menu, the connection cannot be established

#### Solution:

The transfer setup dialog has a connection test function to check both the connection to the CPU and to the module.

Please check

- 1. physical connection (cables etc.)
- 2. power supply to PLC

3. for Ethernet connections make sure to use correct MELSECNET network and station numbers as specified in the PLC 'Network' parameters

4. starting I/O number of module

## 6 Glossary

СОМ	Common Object Model a technology developed by Microsoft® for interlacing software modules independent of their implementation
DLL	<b>D</b> ynamic Link Library file format for software modules, which can be used by an application (executable)
DTM	<b>D</b> evice <b>T</b> ype <b>M</b> anager hardware specific software module containing device specific logic and user interface
FDT	Field Device Tool engineering tool with runtime environment for DTMs
HART	Highway Adressable Remote Transducer HART Communication is a bi-directional industrial field communication protocol used to communicate between intelligent field instruments and host systems

# **Table of Contents**

## A

About 11 Add CommDTM 8 Addin 15 AJ71E71 90 AJ71QE71 90 Architecture 1

## В

Bus scan 15

## С

C24 71 CC-Link 59 CC-Link IE 50 Channel 15 CommDTM 1 Comment 121 Connect 14 Connection test 18 Context menu 11 Copyright 11 CPU 66 CPU board 65

## D

DeviceDTM 1, 10 DTM 1

## Ε

Error codes122Ethernet29, 66, 90Extended port81

### F

FDT 1 FDT Container 1 FDT Group 3 Find CPU 66 FX 81 FX-ENET 90 **G** 

G4 Module 100 GatewayDTM 1 GOT 90 GX Simulator 63

# Η

Hardware 3 Host 104

Installation 3

## License agreement 3 Live list 15 LLT 63

## Μ

MELSECNET/10 56 MELSECNET/H 53 Modem 40, 41, 86, 107 Module list 18 Multi-cpu 193

## N

Network 104 New transfer setup 18

## 0

Online 14 Operating system 3 Other station 104, 116

## Ρ

Password 121

## Q

208

Q series 62 Q00 195 Q00J 195 Q01 195 QJ71E71 90 QnPRH 196 QnUDE 66 **R** 

## R

Redundancy196Redundant196Remove transfer setup18Rename transfer setup18Replace transfer setup18Requirements3RS23228

## S

Select transfer setup 18 Serial 28, 66, 71 Setup 3

## Т

test 22 Tracking cable 196

## U

USB 27

## V

Version 11



Wizard 24