



**Engineering Software** 

# GX RemoteService-I Version2 Operating Manual

-SW2D5C-RAS-E



## • SAFETY PRECAUTIONS •

(Always read these instructions before using this equipment.)

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

The instructions given in this manual are concerned with this product. For the safety instructions of the programmable controller system, please read the CPU module user's manual.

In this manual, the safety instructions are ranked as "AWARNING" and "ACAUTION".



Note that the  $\triangle$ CAUTION level may lead to a serious consequence according to the circumstances. Always follow the instructions of both levels because they are important to personal safety.

Please save this manual to make it accessible when required and always forward it to the end user.

## [Design Instructions]

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• The user should take necessary measures when the PLC system must be secured against illegal access from external devices via the Internet.

# • CONDITIONS OF USE FOR THE PRODUCT •

(1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and

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

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.

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REVISIONS

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

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Japanese Manual Version SH-080437-G

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### INTRODUCTION

Thank you for choosing the Mitsubishi MELSOFT series Integrated FA software. Read this manual and make sure you understand the functions and performance of MELSOFT series thoroughly in advance to ensure correct use.

Please make this manual available to the end user.

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## About Manuals

The following lists the manuals for this software package. Refer to the following table when ordering manuals.

## Related Manuals

Manual Name	Manual Number (Model Code)
Web Server Module User's Manual         Describes the system configuration, specifications, functions, dedicated instructions and troubleshooting         of Web server module.       (Sold separately)	SH-080320E (13JR58)
GX Developer Version 8 Operating Manual Describes the GX Developer functions including programming, printing-out, monitoring and debugging. (Sold separately)	SH-080373E (13JU41)
GX Explorer Version 2 Operating Manual Describes the system configuration, functions and operations of GX Explorer. (Sold separately)	SH-080464ENG (13JU49)

Note:The Operating Manuals are included on the CD-ROM of the software package in a PDF file format. Manuals in printed form are sold separately for single purchase. Order a manual by quoting the manual number (model code) listed in the table above.

### How to Use This Manual

"How to Use This Manual" is described purpose by purpose for use of GX RemoteService-I. Refer to the following description and use this manual.

This system is divided into a personal computer and a server (personal computer). The system can be introduced smoothly by making actual setting while checking the purposes and setting sequence in the following flowchart.



For the server (personal computer) setting, set the automatic or manual operation mode.

The personal computer side setting is required.



- When you want to know features or automatic or manual operation (Section 1.1, Section 1.2) Section 1.1 gives the features. Section 1.2 describes automatic operation and manual operation.
- (2) When you want to know the operating environment of GX RemoteService-I (Section 2.3) Describes the specifications of the personal computer used on the server (personal computer) side.
- (3) When you want to know the initial setting of the server (personal computer) and personal computer (Section 4.1, Section 4.2) Describes the procedures for setting the personal computer used on the server (personal computer) side and the personal computer used on the personal computer side.
- When you want to know the functions set with the server (Chapter 6)
   Provides the detailed explanation of the functions to be set.
   Also gives the explanation of the easy and convenient Wizard for use.
- (5) When you want to know the functions of the personal computer (Section 7.1 to Section 7.4) Describes the procedure for monitoring devices and comments from the personal computer.
- (6) When you want to operate GX RemoteService-I (Chapter 8) Explains the procedures for setting the server (personal computer), sending email and making access from the personal computer to the server (personal computer).
- (7) When you want to know the MELSOFT connection function (Chapter 9) Describes how to access the PLC CPU through the server (personal computer) from the client (personal computer) in which a MELSOFT connection functioncompatible software package<sup>11</sup> is installed, and provides the application examples.

\*1: GX Explorer Version 2 is a MELSOFT connection function-compatible software package.

- (8) When you want to know the actions to be taken at occurrence of problems (Chapter 10) Describes the troubleshooting to avoid trouble.
- (9) When you want to know restrictions (Appendices) Describes the restrictions on use of GX RemoteService-I.

## About the Generic Terms and Abbreviations

Unless otherwise specified, this manual uses the following generic terms and abbreviations to describe GX RemoteService-I.

Generic Term/Abbreviation		Description		
GX RemoteService-I		Generic term for the product types SW2D5C-RAS-E, SW2D5C-RAS-EA.		
GX Explorer		Generic term for the product types SW2D5C-EXP-E, SW2D5C-EXP-EA.		
PWS		Generic term for Personal Web Server.		
IIS		Generic term for Internet Information Server.		
Web server softw	vare	Generic term for Personal Web Server, Internet Information Server, Peer Web Service.		
Windows <sup>®</sup> 2000		Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional Operating System.		
WindowsNT <sup>®</sup> 4.0	)	Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0 Operating System.		
Windows <sup>®</sup> 98		Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Operating System. Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Second Edition Operating System.		
Windows <sup>®</sup> XP		Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional Operating System.		
Windows®		Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Operating System. Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Second Edition Operating System. Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0 Operating System. Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Operating System. Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional Operating System.		
Provider		Internet Service Provider (ISP).		
Sever		Personal computer/PC CPU module/Web server module in which GX RemoteService-I Version 2 is installed.		
PC CPU module		MELSEC-Q series-compatible PC CPU module (CONTAC CO., Ltd.)		
Web server mod	ule	QJ71WS96 Web server module.		
ACPU		Generic term for A0J2H,A1S,A1FX,A1SJ,A1SH,A1SJH,A1N,A2C,A2CJ,A2N(S1),A2S, A2SH,A3N. Including PLC CPU modules with MELSECNET datalink functions, QCPU (A mode) and motion controller (SCPU).		
AnACPU		Generic term for A2A,A2A-S1,A3A,A2AP21/R21,A2AP21/R21-S1,A3AP21/R21.		
AnUCPU		Generic term for A2U,A2U-S1,A3U,A4U,A2US,A2US-S1,A2USH-S1.		
QCPU (A mode)		Generic term for Q02(H)-A,Q06H-A.		
QnACPU		Generic term for Q2A,Q2AS(H),Q2AS1,Q2AS(H)S1,Q3A,Q4A,Q4AR.		
QCPU (Q mode)	)	Generic term for Q00J,Q00,Q01,Q02(H),Q06H,Q12H,Q12PH,Q25H,Q25PHCPU.		
FXCPU		Generic term for FX0,FX0s,FX0N,FX1,FX2,FX2c,FX1s,FX1N,FX1Nc,FX2N,FX2Nc.		
Computer link	For A series	Generic term for A1SJ71C24-R2,A1SJ71C24-R4,A1SJ71C24-PRF,A2CCPUC24, A2CCPUC24-PRF,A1SCPUC24-R2,AJ71C24-S,AJ71C24-S8.		
Onit	For AnU	Generic term for AJ71UC24,A1SJ71UC24-R2,A1SJ71UC24-R4,A1SJ71UC24-PRF.		
Serial	For	Generic term for AJ71QC24,AJ71QC24-R2,AJ71QC24-R4,AJ71QC24N,A1SJ71QC24,		
communication	QnA series	A1SJ71QC24-R2,AJ71QC24N-R2,AJ71QC24N-R4,A1SJ71QC24N,A1SJ71QC24N-R2.		
unit For Q series		Generic term for QJ71C24,QJ71C24-R2,QJ71C24N,QJ71C24N-R2,QJ71C24N-R4.		
C24		Computer link module, Serial Communication module.		
QE71		Generic term for AJ71QE71AJ71QE71-B2AJ71QE71-B5A1SJ71QE71-B5.		
E71		Generic term for AJ71E71-S3,A1SJ71E71-B2-S3,A1SJ71E71-B5-S3,A1SJ71E71- B2,A1SJ71E71-B5.		
Q series-compatible E71		Generic term for QJ71E71,QJ71E71-B2,QJ71E71-100.		
MELSECNET/10	) board	Generic term for A70BDE-J71QLP23/A70BDE-J71QLP23G/A70BDE- J71QL R23/A70BDE-J71QBR13 MELSECNET/10 interface board		
	haard	Generic term for Q80BD-J71LP21-25/Q80BD-J71LP21G(E)/Q80BD-J71BR11		
MELSECNET/H	poard	MELSECNET/H interface board.		
Ethernet board		Ethernet PC card, Ethernet I/F board.		
CC-Link board		Generic term for A80BDE-J61BT11/A80BDE-J61BT13 CC-Link interface board.		
CPU board		Generic term for A80BDE-A2USH-S1 PLC CPU board.		

## Product Makeup

## GX RemoteService-I are made up of the following products.

Туре	Product Name	Quantity
	GX RemoteService-I Version 2 (1-license product) (CD-ROM)	1
	License agreement	1
SW2D5C-RAS-E(V)	End-user software license agreement	1
	Method of installing the MELSOFT series	1
	Software registration notice	1
	GX RemoteService-I Version 2 (Multiple license product) (CD-ROM)	1
	License agreement	n* <sup>1</sup>
SW2D5C-RAS-E(V)A	End-user software license agreement	1
	Method of installing the MELSOFT series	1
	Software registration notice	1

\*1: The number of included license agreements is equivalent to the number of licenses.

## 1. OVERVIEW

This manual explains the system configuration, functions, setting method and operations of MELSEC PLC-compatible remote access tool, GX RemoteService-I.

## 1.1 Features

GX RemoteService-I is the software package (needed to be installed in the server) that makes a connection between the PLC CPU at the site and the client (personal computer or mobile phone) in a remote location via the Internet (or Intranet).

GX RemoteService-I includes the Web function and MELSOFT connection function, which can realize the excellent remote maintenance of PLC CPU.

Web function

Notifies of the PLC CPU device status by sending an e-mail to a mobile phone or personal computer.

Also, enables the PLC CPU device status or relevant comments to be checked from Web browser of a mobile phone or personal computer.

- MELSOFT connection function Connects to the PLC CPU from the software package\*<sup>1</sup> in the client (personal computer) via the Internet (or Intranet). Also, enables the PLC CPU, which is in a remote location from the client (personal computer), to be maintained using the software package\*<sup>2</sup>.
  - \*1: GX Explorer Version 2 is a MELSOFT connection function-compatible software package.
  - \*2: For usable functions, refer to the operating manual of the software package used.



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- (1) PLC CPU can be monitored/diagnosed via the Internet or Intranet The personal computer allows you to know the PLC status.
- (2) This system can be introduced without any modification to the existing system
   No dedicated special modules are required to use this product.
   In addition, you need not change the parameter values since this product does
- (3) Wide range of operating environments (Compatible with Internet and Intranet)

not require I/O points.

A Windows-based personal computer, PC CPU module and Web server module are applicable for the operating environment of the server. Also, the following networks, Internet and Intranet are applicable. In addition, the connection methods are selectable from analogue, mobile phone, DSL and LAN. With this wide range of operating environments, the system can be constructed according the needs, and GX RemoteService-I can be introduced into the existing system easily.



For Internet connection, a contract with ISP (Internet Service Provider) is required.

- (4) Remote maintenance by MELSOFT connection function Installing GX RemoteService-I into the server enables remote maintenance of the PLC CPU from the client (personal computer in which MELSOFT connectioncompatible software package<sup>\*1</sup> is installed) via the Internet or intranet.
  - \*1: GX Explorer Version 2 is a MELSOFT connection function-compatible software package.



(5) Illegal access prevention by security function The user authentication function checks the user name and password in order to

prevent an illegal access to the server, when a client connects to the server.

## 1.2 About Automatic Operation and Manual Operation

GX RemoteService-I allows you to select the automatic or manual operation mode. The features of the automatic and manual operation modes are explained below. They will be helpful for you when constructing a system.

(1) When the server (personal computer) is always connected to the system for monitoring (automatic operation mode)
GX RemoteService-I always monitors the PLC CPU devices.
When an error occurs in the system, GX RemoteService-I sends an e-mail to the personal computer, i.e., notifies of the system error.
(The condition for triggering the transmission of e-mail that notifies the personal computer of a system fault is to be set to the server (personal computer).)

Hence, a serviceman can be notified of an error definition within a short time after occurrence of a fault.



(2) When an operator judges a fault and contacts a serviceman (manual operation mode)

If a fault has occurred in the system, an operator can make judgment to notify a serviceman of the faulty condition.

The serviceman can diagnose the actual system from a remote location to run more in-depth diagnostics.



## 2. SYSTEM CONFIGURATION

## 2.1 Device List for Server (personal computer) side

This section explains the system configuration that uses GX RemoteService-I. Refer to Section 2.1.1, Section 2.1.2, Section 2.1.3 and Section 2.1.4 for the system device lists of the server (personal computer) side. Refer to Section 2.3.2 for the system device list of the personal computer side.

Refer to Section 2.3.1.



## 2.1.1 Connection from the serial/USB port

The following shows the system configuration that can be connected from the serial/USB port of personal computer.



- \*1: About the USB cable (QCPU (Q mode) compatible)
  - (1) Usable when either of Windows<sup>®</sup> 98, Windows<sup>®</sup> 2000 Professional or Windows<sup>®</sup> XP Professional is used, and the USB driver is installed.
  - (2) Unusable for Windows® 95, WindowsNT® 4.0.
  - (3) Use of the USB cable allows only one PLC CPU to be connected.
  - (4) Use the UBS cable which conforms to the USB Standard Rev. 1.1.
  - (5) The following indicates the precautions for and restrictions on communications made using the USB cable.
    - A communication error may occur if you set the resume function, suspend setting, power saving function or standby mode of the server (personal computer) to make communications with the PLC CPU. Hence, do not set any of the above functions when making communications with the PLC CPU.
    - Frequently connecting/disconnecting the USB cable, resetting the PLC CPU or switching power OFF/ON during communications with the PLC CPU may cause a communication error from which the system may not be recovered.

Where possible, therefore, exit from GX RemoteService-I before connecting/disconnecting the USB cable, resetting the PLC CPU or switching power OFF/ON.

If the system cannot be recovered from the communication error, completely disconnect the USB cable once and reconnect it after more than five seconds have elapsed. (An error may occur at the first communication after this operation, but the system will function properly after the second time and later.)

- A communication error may occur depending on the combination of the server (personal computer) model, USB cable and others. In that case, refer to the messages and perform operation again.
- \*2: About the cable (QCPU (Q mode), QCPU(A mode) compatible)

For communication in 115.2/57.6kbps

Fast communication cannot be made if the Personal computer used is not compatible with the communication speed of 115.2/57.6kbps.

If a communication error occurs, reduce the baud rate setting and restart communication.

The following cable has been confirmed by Mitsubishi Electric that it will work properly.

Using the cable of Mitsubishi Electric make



Personal computer Side	RS-232/RS-422	PLC Side
(RS-232 cable)	Converter	(RS-422 cable)
	FX-232AW	For ACPU, QnACPU, FX1/FXu, FX2cCPU
[] F2-232CAB-1		FX-422CAB (0.3m) FX-422CAB-150 (1.5m)
(when Personal computer connector is D-sub, 9-pin)	FX-232AWC	For FX0/FX0s/FX0N/FX1s/FX1N/FX2N/FX2NCCPU
	FX-232AWC-H (FX series only)	FX-422CABO (1.5m)

# \*3: About the converter/cable (ACPU, QnACPU, FXCPU compatible)(1) Using the products of Mitsubishi Electric make.

 How to identify compatibility of the F2-232CAB and F2-232CAB-1 cables with the ACPU and QnACPU

Check the indication of the model label attached to the cable.



• When connecting to FX series, make sure to use the device in the above table.





REMARK

Access can be made to the PLC CPU through GOT-F900 (instead of a converter). For details, refer to the manual or catalog of the above product.

## \*4: Function expansion board

Series	Function expansion board
FX2N	FX2N-422-BD
FX1s, FX1N	FX1N-422-BD

\*5: RS-232 cable and function expansion board (special adapter)

Shape of serial port for personal computer	Series	Required function expansion board and special adapter	RS-232 cable	
		FX0N-232ADP + FX2N-CNV-BD	F2-232CAB-1	
	FX <sub>2N</sub>	FX2N-232-BD		
		FX2NC-232ADP + FX2N-CNV-BD	FX-232CAB-1	
D cub 0 pip	FX1NC,	FX0N-232ADP	F2-232CAB-1	
D Sub 9 pin	FX2NC	FX2NC-232ADP	FX-232CAB-1	
	EV.	FX0N-232ADP + FX1N-CNV-BD	F2-232CAB-1	
	FX1S, FX1N	FX1N-232-BD	FX-232CAB-1	
		FX2NC-232ADP + FX1N-CNV-BD		
	FX <sub>2N</sub>	FX0N-232ADP + FX2N-CNV-BD	F2-232CAB	
		FX2N-232-BD		
		FX2NC-232ADP + FX2N-CNV-BD	FZ-232CAB-1	
D auto 05 min	FX1NC,	FX0N-232ADP	F2-232CAB	
D sub 25 pm	FX2NC	FX2NC-232ADP	F2-232CAB-1	
		FX0N-232ADP + FX1N-CNV-BD	F2-232CAB	
	FA1S,	FX1N-232-BD		
	FA1N	FX2NC-232ADP + FX1N-CNV-BD	FZ-232CAB-1	

## \*6: Converter/cable (FXCPU compatible)

(1) System configuration



USB cable (packed)

- (2) When Windows<sup>®</sup> 98, Windows<sup>®</sup> Me, Windows<sup>®</sup> 2000 Professional, Windows<sup>®</sup> XP Professional or Windows<sup>®</sup> XP Home Edition is used, the converter/cable is available if the driver on the CD-ROM packed with the FX-USB-AW or FX<sub>3</sub>U-USB-BD has been installed.
- (3) The converter and cable are unavailable for Windows<sup>®</sup> 95 or Windows NT<sup>®</sup> Workstation 4.0.
- (4) On GX Developer, choose [Online] [Transfer setup] and set the serial COM port number.
- (5) For the precautions and restrictions on use of the FX-USB-AW, refer to the manual packed with the FX-USB-AW.

\*7: Computer link

The program that uses V, Z (Indexing) cannot be monitored if routing through a computer link module when A Series is used.

## POINT

- Before handling the RS-422 interface conversion cable/converter, please read its specifications, precautions, etc. carefully in the manual of the corresponding product and handle it correctly.
- When disconnecting or reconnecting the conversion cable/converter that receives 5VDC power from the RS-422 interface, switch power off on the PLC CPU side before starting work.
- When disconnecting or reconnecting the peripheral device or conversion cable that does not receive 5VDC power from the RS-422 interface (whose power is supplied from an external power supply), be sure to use an earth band or touch a grounded metal object, etc. before starting work to discharge static electricity from the cable, human body, etc. After that, handle it in the following procedure.
  1) Switch power off on the personal computer side.
  - 2) Power off the conversion cable/converter. When it has an FG terminal, ground it.
  - 3) Connect/disconnect the conversion cable/converter between the personal computer and PLC CPU.
  - 4) Power on the conversion cable/converter.
  - 5) Power on the personal computer.
  - 6) Start up the software package.

## 2.1.2 Connection from the interface boards

The following system configuration is made up by connection from the interface boards.

Refer to the corresponding board manuals for the way to connect the boards and install the drivers.



## \*1: MELSECNET/10 board

The following table indicates the drivers that cannot be used with the specific Operating Systems.

Driver Name	Operating Systems
SW3DNF-MNET10	Cannot be used with Windows <sup>®</sup> Me/2000.
SW0DNC-MNETH-B	Cannot be used with Windows <sup>®</sup> Me.

If a communications error takes place, an error code is indicated in the least significant 4 digits.

Refer to the error code list of the MELSECNET/10 board manual.

## \*2: CC-Link board

The A80BDE-J61BT11 allows setting of the master/local station. The A80BDE-J61BT13 is accessible only when local station setting has been made.

### \*3: Ethernet board

(1) The following Ethernet boards/cards have been confirmed by Mitsubishi Electric to operate properly.

Maker Name	Model
3COM	Ethernet Link III LAN PC Card
	Centre COM LA-PCM Ethernet PC Card LAN Adapter
Allied Telesis	RE2000 (ISA)
TDK	10BASE-T LAN card
IDK make	(Model: LAN-CD021BX)

## 2.1.3 System equipment lists

PC Series	Module Name	Module Model
		Q00J, Q00, Q01, Q02(H), Q06H, Q12H, Q25H
		Q02(H)-A, Q06H-A
0.04		QJ71C24, QJ71C24-R2, QJ71C24N,
Q Series	Serial communication module *	QJ71C24N-R2, QJ71C24N-R4
	MELSECNET/H network remote I/O module	QJ72LP25, QJ72BR15
	G4-S3 module	AJ65BT-G4-S3
	PLC CPU module	Q2A, Q2AS(H), Q2AS1, Q2AS(H)S1, Q3A, Q4A, Q4AR
		AJ71QC24, AJ71QC24-R2, AJ71QC24-R4,
	Sorial communication modulo * <sup>2</sup>	AJ71QC24N, A1SJ71QC24, A1SJ71QC24-R2,
QnA Series		AJ71QC24N-R2, AJ71QC24N-R4, A1SJ71QC24N,
		A1SJ71QC24N-R2
	MELSECNET/10 network remote I/O module	AJ72QLP25, AJ72QBR15, A1SJ72QLP25,
		A1SJ72QBR15
	G4 module	AJ65BT-G4, AJ65BT-G4-S3
		A0J2H, A1S(S1), A1FX, A1SJ, A1SH, A1SJH,
	PLC CPU module	A1N, A2C, A2CJ, A2N(S1)A2S(S1), A2SH(S1),
		A3N, A2A(S1), A3A, A2U(S1), A2AS(S1),
		A2AS-S30, A2AS-S60, A3U, A4U
		AJ71UC24, A1SJ71UC24-R2, A1SJ71UC24-PRF,
A Series		A1SJ71C24-R2, A1SJ71C24-R4,
	Computer link module * <sup>3</sup>	A1SJ71C24-PRF, AJ71C24-S6, AJ71C24-S8,
		A1SCPUC24-R2, A2CCPUC24,
		A2CCPUC24-PRF, A1SJ71UC24-R4
	MELSECNET/B data link remote I/O module	AJ72T25B, A1SJ72T25B
	MELSECNET/10 data link remote I/O module	AJ72LP25, AJ72LP25, AJ72BR15
	G4 module	AJ65BT-G4, AJ65BT-G4-S3
FX Series		FX0(S), FX0N, FX1, FXU, FX2C, FX1S, FX1N, FX1N,
		FX <sub>2N(C)</sub>
MOTION (SCPU)	PLC CPU module	A171SH, A172SH, A173UH(S1), A273UH(S3)

(	1	) The following list indicates	module connectable from the serial no	ort
l	, L,	) The following list indicates	s module connectable nom the senai pr	οn.

(2) The following table indicates the modules which can be connected from the MELSECNET/10 or MELSECNET/H (MELSECNET/10 mode) board.

PC Series	Module Name
Q Series	QJ71LP21, QJ71LP21G, QJ71BR11, QJ71LP21-25, QJ71LP21S-25
QnA Series	AJ71QLP21, AJ71QBR11, A1SJ71QLP21, A1SJ71QBR11
A Series	AJ71LP21, AJ71BR11, A1SJ71LP21, A1SJ71BR11

# (3) The following table indicates the modules which can be connected from the MELSECNET/H board.

PC Series	Module Name
Q Series	QJ71LP21, QJ71BR11, QJ71LP21-25

#### (4) The following list indicates modules connectable from the CC-Link board.

PC Series	Module Name
Q Series	QJ61BT11, QJ61BT11N
QnA Series	AJ61QBT11, A1SJ61QBT11
A Series	AJ61BT11, A1SJ61BT11

#### (5) The following list indicates modules connectable from the Ethernet board.

PC Series	Module Name			
Q Series	QJ71E71, QJ71E71-B2, QJ71E71-100, QJ71E71-B5			
QnA Series	AJ71QE71, AJ71QE71-B5, A1SJ71QE71-B2, A1SJ71QE71-B5, AJ71QE71N-T, A1SJ71QE71N-T,			
	J71QE71N-B5, A1SJ71QE71N-B5, AJ71QE71N-B2, A1SJ71QE71N-B2, AJ71QE71N-B5T,			
	A1SJ71QE71N-B5T			
A Series	AJ71E71-S3, A1SJ71E71-B2-S3, A1SJ71E71-B5-S3, A1SJ71E71-B2, A1SJ71E71-B5,			
	AJ71E71N-B2, AJ71E71N-B5T, A1SJ71E71N-B2, A1SJ71E71N-B5, AJ71E71N-T, A1SJ71E71N-T,			
	AJ71E71N-B5, A1SJ71E71N-B5			

\*1: When accessing the PLC CPU from the server (personal computer) through a serial communication module (for Q series), note that some modules are inapplicable for connection to a personal computer.

Even if a module cannot be directly connected to the server (personal computer), it might be usable as "n"th device in the multidrop connection.

Туре	Interface	1:1	Multidropping	
турс		Connection	First module	"n"th module
0171024	RS-232C	0	0	×
011024	RS-422/485	×	×	0
0171024 82	RS-232C	0	×	×
QJ71024-N2	RS-232C	×	×	×

\*2: The following table indicates whether the interfaces may be connected to the personal computer when the PLC CPU is accessed from the personal computer via the serial communication module (QC24). If the module cannot be connected directly with the personal computer, it

may be usable as the "n"th module of multidropping.

Туре	Interface	1:1	Multidropping		
туре	Interface	Connection	First module	"n"th module	
A 1710C24	RS-232C	0	0	×	
AJ/TQC24	RS-422/485	×	×	0	
	RS-232C	0	0	×	
AJ/TQC24N	RS-422/485	×	×	0	
	RS-232C	0	×	×	
AJTIQU24-NZ	RS-232C	×	×	×	
	RS-232C	0	×	×	
	RS-232C	×	×	×	
	RS-422	×	×	×	
AJ7 1Q024-N4	RS-422/485	×	×	0	
	RS-422	×	×	×	
A37 1Q024N-N4	RS-422/485	×	×	0	
A1S 1710C24	RS-232C	0	0	×	
A10071Q024	RS-422/485	×	×	0	
A1S 1710024N	RS-232C	0	0	×	
A1007 1Q024N	RS-422/485	$\times$	×	0	
A1S 1710C24-P2	RS-232C	0	×	×	
	RS-232C	×	×	×	
A1S 1710024NLP2	RS-232C	0	×	×	
A1007 1Q024N-NZ	RS-232C	×	×	×	

\*3: About the computer link module

Note that when the PLC CPU is accessed from the personal computer via the computer link module, the modules that may be connected directly with the personal computer are limited.

If the module cannot be connected directly with the personal computer, it may be usable as the "n"th module of multidropping.

Type	Interface	1:1	Multidropping	
Турс	interface	Connection	First module	"n"th module
A 17111C24	RS-232C	0	0	×
AJ710024	RS-422/485	×	×	0
A 171024 S6	RS-232C	0	0	×
AJ71024-30	RS-422	×	×	0
A 171024 S8	RS-232C	0	0	×
A371024-36	RS-422	×	×	0
A1SJ71UC24-R2	RS-232C	0	×	×
A1SJ71C24-R2	RS-232C	0	×	×
A1SJ71UC24-PRF	RS-232C	0	×	×
A1SJ71C24-PRF	RS-232C	0	×	×
A1SJ71UC24-R4	RS-422/485	×	×	0
A1SJ71C24-R4	RS-422/485	×	×	0
A1SCPUC24-R2	RS-232C	0	×	×
	RS-232C	0	0	×
A2CCPUC24	RS-422	×	×	×
	RS-422/485	×	×	0
	RS-232C	0	Ö	×
A2CCPUUC24-PRF	RS-422	×	×	×
	RS-422/485	×	×	0

## 2.1.4 Connection from the PC CPU Module

The following shows the system configuration that can be connected from the PC CPU module.



\*1: Examples of Wiring RS-232 Cable for Connection of C24 and Personal computer

#### A Series

(1) When a 25-pin connector is used in a computer link module

(Connection example 1)

Computer Link Module Side			GX RemoteService-I Side
Signal Name	Pin No.		Signal Name
FG	1	←	FG
SD(TXD)	2		SD(TXD)
RD(RXD)	3	+	RD(RXD)
RS	4		RS
CS(CTS)	5		CS(CTS)
DSR(DR)	6		DSR(DR)
SG	7	$\leftarrow \rightarrow \rightarrow$	SG
CD	8		CD
DTR(ER)	20		DTR(ER)

If the connection between the computer link module and the GX RemoteService-I is made in the manner shown below, designate "without CD terminal check".

Computer Link Module Side			GX RemoteService-I Side
Signal Name	Pin No.		Signal Name
FG	1	•	FG
SD(TXD)	2		SD(TXD)
RD(RXD)	3	•	RD(RXD)
RS	4		RS
CS(CTS)	5	<b>⋴</b> ─┘ └─•	CS(CTS)
DSR(DR)	6		DSR(DR)
SG	7		SG
CD	8		CD
DTR(ER)	20		DTR(ER)

Buffer memory setting

CD terminal check (address 10Bh): Without check DTR control (address 11Ah): Yes (C24-S8, UC24)

### (2) When a 9-pin connector is used in a computer link module

(Example of connection)

Computer Link Module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	Cable Connection and Signal Direction	Signal Name
CD	1		CD
RD(RXD)	2		RD(RXD)
SD(TXD)	3		SD(TXD)
DTR(ER)	4		DTR(ER)
SG	5		SG
DSR(DR)	6		DSR(DR)
RS(RTS)	7		RS(RTS)
CS(CTS)	8	<b>⋴</b> ' └•	CS(CTS)

(Example of connection)

Computer Link Module Side		Cable Connection and Circal Direction	GX RemoteService-I Side
Signal Name	Pin No.	Cable Connection and Signal Direction	Signal Name
CD	1		CD
RD(RXD)	2		RD(RXD)
SD(TXD)	3		SD(TXD)
DTR(ER)	4		DTR(ER)
SG	5	$\leftarrow \qquad \qquad$	SG
DSR(DR)	6		DSR(DR)
RS(RTS)	7		RS(RTS)
CS(CTS)	8	<b>←</b> └•	CS(CTS)

DC code control or DTR/DSR control is enabled by connecting the DTR and DSR signals of the computer link module to an external device as shown above.

## QnA Series

- (1) When a 25-pin connector is used in a serial communication module
  - (a) Example of connection to an external device that allows the CD signal (No. 8 pin) to be turned ON/OFF

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	(Full-/Half-Duplex Communication)	Signal Name
FG	1	<b>ه</b> ـــــــــــــــــــــــــــــــــــ	FG
SD(TXD)	2		SD(TXD)
RD(RXD)	3	• •	RD(RXD)
RS	4		RS
CS(CTS)	5		CS(CTS)
DSR(DR)	6		DSR(DR)
SG	7	$ \longrightarrow $	SG
CD	8		CD
DTR(ER)	20		DTR(ER)

DC code control or DTR/DSR control is enabled by connecting the QC24 (N) to an external device as shown above.

(b) Example of connection to an external device that does not allow the CD signal (No. 8 pin) to be turned ON/OFF

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	(Full-Duplex Communication)	Signal Name
FG	1	• •	FG
SD(TXD)	2		SD(TXD)
RD(RXD)	3		RD(RXD)
RS	4	]	RS
CS(CTS)	5	Je—┘ └─>	CS(CTS)
DSR(DR)	6		DSR(DR)
SG	7		SG
CD	8		CD
DTR(ER)	20		DTR(ER)

DC code control or DTR/DSR control is enabled by connecting the QC24 (N) to an external device as shown above.
- (2) When a 9-pin connector is used in a serial communication module
  - (a) Example of connection to an external device that allows the CD (a)signal (No. 1 pin) to be turned ON/OFF

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	(Full- / Half-Duplex Communication)	Signal Name
CD	1		CD
RD(RXD)	2		RD(RXD)
SD(TXD)	3		SD(TXD)
DTR(ER)	4		DTR(ER)
SG	5	$\sim$	SG
DSR(DR)	6		DSR(DR)
RS(RTS)	7		RS(RTS)
CS(CTS)	8	<b>⋴</b> ' └──•	CS(CTS)

DC code control or DTR/DSR control is enabled by connecting the QC24 (N) to an external device as shown above.

(b) Example of connection to an external device that does not allow the CD signal (No. 1 pin) to be turned ON/OFF

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	(Full-Duplex Communication) Signal Name	Signal Name
CD	1		CD
RD(RXD)	2		RD(RXD)
SD(TXD)	3		SD(TXD)
DTR(ER)	4		DTR(ER)
SG	5	$ \qquad \qquad$	SG
DSR(DR)	6		DSR(DR)
RS(RTS)	7		RS(RTS)
CS(CTS)	8	<b>ℯ</b> ' └•	CS(CTS)

DC code control or DTR/DSR control is enabled by connecting the QC24 (N) to an external device as shown above.

#### **Q** Series

The connector specifications are indicated below.

Pin Number	Signal Code	Signal Name	Signal Direction Q-compatible C24 ↔ external device
1	CD	Receive carrier detection	<b>←</b>
2	RD (RXD)	Receive data	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
3	SD (TXD)	Send data	<b>→</b>
4	DTR (ER)	Data terminal ready	<b>&gt;</b>
5	SG	Send ground	← →
6	DSR (DR)	Data set ready	←
7	RS (RTS)	Request to send	
8	CS (CTS)	Clear to send	<b>←</b>
9	RI (CI)	Call indication	•

#### (1) Connection example which can turn ON/OFF CD signal (No. 1 pin)

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	duplex communication)	Signal Name
CD	1		CD
RD (RXD)	2		RD (RXD)
SD (TXD)	3		SD (TXD)
DTR (ER)	4		DTR (ER)
SG	5		SG
DSR (DR)	6		DSR (DR)
RS (RTS)	7		RS (RTS)
CS (CTS)	8	←┘ └→	CS (CTS)
RI (CI)	9		

(2) Connection example which cannot turn ON/OFF CD signal (No. 1 pin) Connection example for exercising DC code control or DTR/DSR control

Serial communication module Side		Cable Connection and Signal Direction	GX RemoteService-I Side
Signal Name	Pin No.	communication)	Signal Name
CD	1		CD
RD (RXD)	2	4	RD (RXD)
SD (TXD)	3		SD (TXD)
DTR (ER)	4		DTR (ER)
SG	5		SG
DSR (DR)	6	•	DSR (DR)
RS (RTS)	7		RS (RTS)
CS (CTS)	8	┝─┘└─╸	CS (CTS)
RI (CI)	9		

## 2.1.5 Connection from the Web server module

The following shows the system configuration that can be connected from the Web server module.



#### POINT

- For information on the compact flash card (TYPE I storage card that meets CompactFlash<sup>™</sup> specifications) supported by the Web server module, please contact your local Mitsubishi representative.
- Make sure to use a compact flash card of 64MB or more for the Web server module.
- Make sure to use the format function of the Web server module to format a compact flash card. For details, refer to the Web server module user's manual.
- When installing GX RemoteService-I into a compact flash card, specify only the compact flash card drive in the destination selection dialog box. Do not add the folder name after the drive name, as this will result in an error.
- The Web server module takes 90 seconds to start, if a compact flash card in which GX RemoteService-I has been installed is set.

## 2.2 Network Connection Method

## 2.2.1 Connection configuration

The following describes the methods of connecting a server that uses GX RemoteService-I to network.

Connection method	Device	Automatic acquisition of server IP address	Supplementary explanation	
Analogue	Sever	Possible		
	Sever $\longleftrightarrow$ Broadband router $\longleftrightarrow$ Analogue modem	Possible depending on the router	An IP address can be automatically acquired only when a UPnP-compatible router is used. In this case, both variable IP address and fixed IP address are available. When the router is incompatible with UPnP, only the fixed IP address is available.	
	Sever ←→ Dial-up router	Possible depending on the router		
Mobile phone	Sever ←→ Modem for mobile phone + Mobile phone	Possible		
	Sever $\longleftrightarrow$ Bridge type DSL modem	Possible		
DSL	Sever $\longleftrightarrow$ Broadband router $\longleftrightarrow$ Bridge type DSL modem	Possible depending on the router	An IP address can be automatically acquired only when a UPnP-compatible router is used. In this case, both variable IP	
	Sever $\longleftrightarrow$ Router type DSL modem	Possible depending on the router	available. When the router is incompatible with UPnP, only the fixed IP address is available.	
LAN	Sever $\longleftrightarrow$ LAN cable (twisted pair)	Possible		

## 2.2.2 Connection configuration devices

(1)	The following explains the devices to be used to connect a server
	that includes GX RemoteService-I to network.

Connection method	Devices used	Connection type	REMARK
Analogue line	<ul> <li>Analogue modem</li> <li>Hayes AT-command compatible product</li> <li>Turns DR(DSR) signal ON independently</li> <li>Meets the QJ71WS96 RS-232 transmission specifications</li> </ul>	Dial-up connection	RS-232C connection (RS-232C standard compliant product)
Mobile phone line	Mobile phone modem	Dial-up connection	RS-232C connection (RS-232C standard compliant product) PCMCIA card connection USB connection
DSL	<ul> <li>DSL modem</li> <li>Compatible with the following communication method: PPPoA(RFC2364 standard) or PPPoE (RFC2516 standard)</li> <li>Compatible with the following communication standard: G.992.1/G992.2 and AnnexA. (For compatible provider, refer to the next page.)</li> </ul>	Continuous connection	LAN cable (twisted pair) connection IEEE802.3, 10BASE-T/100BASE-TX standard compliant product • For 10Mbps UTP cable (category 5), STP cable (category 5) • For 100Mbps
LAN	LAN cable (twisted pair)	LAN connection	UTP cable (category 3 or higher), STP cable (category 3 or higher)

#### (2) Contract with a provider

Note the following points when making a contract with a provider. GX RemoteService-I supports the optical communication (optical communication compatible provider and relevant device) as shown below.

- (a) Provider PPPoE (RFC2516 standard) compatible product only.
- (b) Line terminal device Product recommended for each provider only.

GX RemoteService-I supports the DSL (DSL compatible provider and relevant device) as shown below.

- Provider PPPoA (RFC2364 standard)/ PPPoE (RFC2516 standard) compatible product only.
- (b) DSL modem G.992.1/G992.2 and AnnexA compatible product only.

## 2.3 Operating Environment

#### 2.3.1 Server (personal computer)

A contract with a provider is required for use of server.

(1) The following shows the operating environment for personal computer.

Item		Description		
Computer main unit		Pentium 200MHz or higher (recommended) IBM-PC/AT-compatible personal computer installed with applicable Windows <sup>®</sup> . However, a Pentium 300MHz processor or higher is recommended when using Windows <sup>®</sup> XP Professional.		
Required memory	/	64 MB or more, However, 128 M	B or more when using Windows <sup>®</sup> XP Professional.	
Free hard disk	For installation	100 MB or more		
area For operation 100 MB or more		100 MB or more		
Disk drive		CD-ROM drive		
Display		Resolution: 1024 × 768 pixels or higher (XGA or higher)		
Operating system * <sup>1</sup>		Web function-compatible	Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Microsoft <sup>®</sup> Windows <sup>®</sup> 98 Second Edition Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0 * <sup>2</sup> Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional * <sup>2</sup> Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional * <sup>2</sup>	
		MELSOFT connection function-compatible* <sup>3</sup>	Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0 * <sup>2</sup> Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional * <sup>2</sup> Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional * <sup>2</sup>	
Web browser		Microsoft <sup>®</sup> Internet Explorer 6.0 or later		

- \*1: This product does not work with Windows<sup>®</sup> Me and Windows<sup>®</sup> XP HomeEdition, as the Web server is incompatible.
- \*2: Administrator privilege is required to install GX RemoteService-I into the following operating systems, WindowsNT® Workstation4.0, Windows® 2000 Professional and Windows® XP Professional. In addition, Administrator privilege is required to use GX RemoteService-I in Windows® XP Professional.
- \*3: GX Explorer Version 2 is a MELSOFT connection function-compatible software package on the client (personal computer) side.
- (2) The following shows the operating environment for PC CPU module.

Item		Description	
Module		PPC CPU686 (MS)	
Free hard disk	For installation	100 MB or more	
area	For operation	100 MB or more	
Disk drive		CD-ROM drive (PPC-CDD-01)	
Display		Resolution: 1024 × 768 pixels or higher (XGA or higher)	
Operating system		Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0 Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional	
Web browser		Microsoft <sup>®</sup> Internet Explorer 6.0 or later	

(3) The following shows the operating environment for Web server module.

Item	Description	
Module	QJ71WS96	
Compact flash card	64MB or more	

Install GX RemoteService-I Version 2 into a compact flash card, and then set it to the Web server module. (Refer to POINT.)

Note that a compact flash card is compatible with the Web server module with first five digits of serial number "05112" or later.

Check the serial number as shown below.

(a) At SERIAL section in the rating plate, which is situated on the side of module.

MELSEC-Q	
MODEL	
MAC ADD.	Serial No. (first 5 digits)
SERIAL 0511200000000000	
CULUS LISTED IND. CONT. EQ.	

- (b) Using GX Developer or GX Explorer. The serial number is shown in "Product Information" or "Module's Detailed Information" screen.
  - "Product Information" screen
    - [Diagnostics] [System Monitor] Product Information
  - "Module's Detailed Information" screen
    - [Diagnostics] [System Monitor] Module's Detailed Information

For details of operation method, refer to the operating manual of each software package.

#### POINT

- For information on the compact flash card (TYPE I storage card that meets CompactFlash<sup>™</sup> specifications) supported by the Web server module, please contact your local Mitsubishi representative.
- Make sure to use the format function of the Web server module to format a compact flash card. For details, refer to the Web server module user's manual. Note that formatting deletes all files.

¥SYSTEM (Delete of both folder and files), ADDIN.KEY, STARTUP.KEY, IJE.CMD, STARTUP.CMD

 When installing GX RemoteService-I into a compact flash card, double-click "SETUP. EXE" within the CD-ROM and proceed to install according to the displayed screen.

Specify only the compact flash PC card drive in the destination selection dialog box, and do not add the folder name after the drive name, as this will result in an error.

• The Web server module takes 90 seconds to start, if a compact flash card in which GX RemoteService-I has been installed is set.

When deleting GX RemoteService-I-relevant files only, delete the following folder and files.

#### IMPORTANT

A Web server software must be installed to use the Web function.

Make sure that the Web server software is compatible with the operating system (OS) before installation.

For installation method, refer to Chapter 5.

The following shows the applicable Web server software.

Operating system (OS)	Compatible software		
Microsoft <sup>®</sup> Windows <sup>®</sup> 98	Personal Web Server Version 4.0 or later		
Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0	Peer Web Service Version 4.0 or later		
Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional	Internet Information Convert Version 5.0 or later		
Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional	internet mormation Server version 5.0 of later		

- Web server software other than above is inapplicable.
- Windows<sup>®</sup> 98, Windows<sup>®</sup> 2000 and Windows<sup>®</sup> XP must be set up at the time of installation.
- Set up WindowsNT<sup>®</sup> 4.0 when installing Service Pack 3 or later and Option Pack. (WindowsNT<sup>®</sup> 4.0 Service Pack 3 or later and Option Pack are available by downloading them from the Microsoft Corporation home page or by CD-ROM sending service.)
- Refer to the help function of Windows<sup>®</sup> for the installation method and others of the server software.

#### POINT

<ul> <li>Permission of access to folders and files</li> </ul>
Use of this product may change the files within the installation destination folder
and sub folders.
Therefore, the user must be granted write access to these folders and files, if
either of the following operating systems is used.
Without this setting, product may not operate correctly.
Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional
Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional
Microsoft <sup>®</sup> WindowsNT <sup>®</sup> Workstation 4.0
It is recommended to log on as an administrators group user, who is granted to
control the computer, to use this product.
<ul> <li>New functions of Windows<sup>®</sup> XP</li> </ul>
Note that this product may not operate correctly when any of the following new
Microsoft® Windows® XP Professional functions is used, as they are unsupported.
Compatibility mode (The application supported by earlier version of Windows is
run using this mode.)
Fast user switching
Remote desktop
Desktop themes change (Larger font is selected.)

## 2.3.2 Personal computer

The necessary environment is as follows.

Used Device	Description
When using a personal	Personal computer where the Web browser has been installed
computer.	(Microsoft® Corporation's Internet Explorer 5.5 or later or Netscape
	Communication Corporation's Netscape Communicator 4.5 or later)
When using a mobile	i mode compatible mobile phone
phone.*1	J-Sky compatible mobile phone
	Ezweb compatible mobile phone

\*1: This product can be used only in Japan.

• You need to make a contract with a provider.

# MEMO


## **3. FUNCTION LIST**

The following provides lists of setting items for the server (personal computer) and for personal computer.

## 3.1 Server (Personal Computer) Function List

		Necessity of se		
Function Name	Description	For Web	For MELSOFT	Reference
		function	connection	
Operating mode	Sets the automatic or manual operation mode.	0	×	Chapter 6
Starts AUTO drive	Starts the continuous monitoring of devices in the automatic operation mode.	Δ	×	
Dial-up execute	Makes dial-up connection to connect with the Internet.	0 ×		
URL copy	Copies the URL of the server (personal computer).	—	—	Section 6.2
Send e-mail	Sends e-mail created with GX RemoteService-I.	0	×	
Product information	Displays the version and others of the product.	—	—	
Security setting	Makes settings related to the security for server access.	0	Δ	Section 6.3.1
E-mail setting	Makes settings related to e-mail (mail server, account name, etc.). Also creates a message for manual operation.	0	×	Section 6.3.2
Network setting	Sets the connection type, HTTP port number for MELSOFT connection and HTTP port number for Web facility.	0	0	Section 6.3.3
PLC type selection	Selects the PLC type of the PLC to be monitored on the personal computer.	0	×	Section 6.3.4
Transfer setup	Selects the path of the PLC to be monitored on the personal computer.	0	×	Section 6.3.5
Device range setting	Makes settings related to the device to be monitored on the personal computer.	0	×	Section 6.3.6
Tag setting	Makes setting for handling the read devices as tags.	0	×	Section 6.3.7
Auto drive setting	Sets the device to be monitored continuously in the automatic operation mode.	0	×	Section 6.3.8
Dev. disp. setting	Changes the display format of the screen displayed on the personal computer.	0	×	Section 6.3.9

The following table lists the functions to be set on the server (personal computer).\*1

O : Necessary

× : Unnecessary

 $\triangle$  : Might be necessary

- : Irrelevant

\*1: For the Web function and MELSOFT connection, refer to Chapter 8 and 9.

## 3.2 Personal Computer Side Function List

### 3.2.1 Monitor functions

3

Reference		Description	Reference
Tag display		Performs one-shot monitoring of the tag set on the server	Section
		(personal computer) side.	7.2
Transfer setup		Sets the PLC series, PC side I/F, PLC side I/F and other	
	-	station.	Section
Device display Device range setting Device comment search		Sets the device to be monitored.	7.1
		Makes a device comment search.	
	Word (Dec)	Displays devices in a word multi-point decimal format.	
	Word (Hex)	Displays devices in a word multi-point hexadecimal format.	
Bit		Displays devices in a bit multi-point format.	Section
	Comment Dec	Displays devices in a commented decimal format.	7.3
	Comment Hex	Displays devices in a commented hexadecimal format.	
	Comment Bin	Displays devices in a commented binary format.	7

The following table lists the functions to be set with the personal computer.

## 3.2.2 Functions to cut off server (personal computer) line from personal computer

The following table lists the functions that disconnect the server (personal computer) line from the personal computer.

Reference	Description	Reference
Server Side Circuit Settings Time to disconnect the circuit	Sets the server (personal computer) line disconnection timer.	Section
Server side dial-up disconnect execution	Disconnects the server (personal computer) line.	7.4

## 4. PRE-OPERATION SETTINGS AND PROCEDURES

This chapter explains the setting items and procedures necessary for the server (personal computer) and personal computer.



## 4.1 Server (Personal Computer) Setting Procedure

This section explains the procedure for setting the server (personal computer).





## 4.2 INSTALLATION AND UNINSTALLATION

This chapter explains how to install and uninstall the product.

#### 4.2.1 Installation

Install the product according to the following procedure.

#### (1) Installing Procedure

Install any of GX RemoteService-I in the following procedure.



#### POINT

If the DLL overwrite confirmation message appears during installation, choose "Yes" to overwrite the DLLs.

If they are not overwritten, GX Developer may not be run properly.

(2) Installing the product

Before starting installation, confirm the following.

#### POINT

- Terminate all the other applications running under Microsoft<sup>®</sup> Windows<sup>®</sup> Operating System before installation.
- When using Windows<sup>®</sup> XP Professional, Windows<sup>®</sup> XP Home Edition, Windows<sup>®</sup> 2000 Professional or Windows NT<sup>®</sup> Workstation 4.0, logon as a user who has the attributes of an administrator (for computer management).

(The screens of Windows® 2000 are used in the explanation.)



(To the next page)

 Start Windows<sup>®</sup> Explorer and click the drive in which the disk has been inserted. Double-click "Setup.exe". In the case of Windows<sup>®</sup> 2000 Professional, rightclick [Start] and select [Explorer].

2) If either of the following messages appears, perform operation as shown below.

Message	Reference
The operating system on this computer is not admitted as the environment of this package.	(a) in "When a message appears at start of installation" of this section.
This package is not in proper operating environment. Please install this package after executing \Update\Axdist.Exe from CD-ROM.	(b) in "When a message appears at start of installation" of this section.
This package is not in proper operating environment. Please install this package after executing \Update\50COMUPD.EXE from CD-ROM.	(c) in "When a message appears at start of installation" of this section.
This package is not in proper operating environment. Please install this package after executing \EnvMEL\Setup.Exe from CD-ROM.	(d) in "When a message appears at start of installation" of this section.

 As the installation destination selection screen appears, select the installation destination according to the screen.

(From the previous page)			
User Information	4)		
Type your name below. You must also type the name of the company you work for.			
Ngme: Mitsubishi			
Company: MITSUBISHI ELECTRIC Co.			
< <u>Back</u> Cancel			
Input ProductID X	5)		
Please enter the product ID of the product. Please input in single byte English characters	,		
-			
Input ProductID	6)		
Please enter the product ID of the product. Please input in single byte English characters			
< <u>B</u> ack <u>Next&gt;</u> Cancel			
Choose Destination X			
The setup will install SWnD5-GPPW in the following directory. Cick [Next] to install in this directory.	7)		
Click (browse) and select the directory for installing in other directory. Click (Cancel) for not installing.			
Destination Folder			
<u>Next&gt;</u> Cancel			

Type the name and company, and click Next>.
 As the confirmation dialog box appears, perform operation in accordance with the message.

Type the product ID and click Next>.
 The product ID is described on the "License agreement" included in the product.

 When the product is to be updated, the screen shown on the left appears. Type the product ID of the older product and click Next>.

The product ID is described on the "Software Registration Card" or "License agreement" included in the older product.

When the product is to be installed anew, the screen shown on the left does not appear.

 Specify the installation Destination Folder. If the installation Destination Folder displayed is correct, click Next>.

If you change the destination folder, click Browse and specify a new drive and folder.

(To the next page)

(From the previous page)
¥
Information ×
Completed the installation of this product.
Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart Windows or your computer.
Choose one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
C No, I will restart my computer later.
ОК

- 8) This completes installation. Click OK.
- 9) Windows<sup>®</sup> must be rebooted if the screen shown on the left appears.

Installation of GX RemoteService-I registers the icon as shown below.

	*	<u>P</u> rograms F <u>a</u> vorites	•		MELSOFT Application  MS-DOS Prompt Windows Explorer	6	GX Developer To MELFANSweb Homepage
		<u>D</u> ocuments	•	Ē			
	<b>1</b>	<u>S</u> ettings	ł				
	<b>X</b>	<u>F</u> ind	ł				
	Ø	<u>H</u> elp					
<b>s</b> 98	2	<u>B</u> un					
ð	È	Log Off					
ž		Sh <u>u</u> t Down					
A	Start			-			

When a message appears at start of installation

In some cases, a message may appear at installation of this product, resulting in the installation failure.

If this occurs, make sure to close all running applications, and carry out either of the operations (a) to (d).

- (a) Supported operating system This product does not support Windows<sup>®</sup> 95.
   Reinstall this product into the personal computer in which the supported operating system has been installed.
- (b) Installation of Jaaxdist.exe
   Use "Update/Jaaxdist.exe" within this product (CD-ROM) to update
   Windows<sup>®</sup>.
   Execute Jaaxdist.exe included within this product (CD-ROM). Then, restart the personal computer and install this product.
   The following shows the exe files to be executed for each operating system.

Supported operating systemFile nameMicrosoft® Windows® 98JaaxDist.exeMicrosoft® Windows® 98 Second EditionJaaxDist.exeMicrosoft® Windows NT® Workstation 4.0JaaxDist.exe

(JaaxDist.exe is included in "Update" folder, which is within this product, CD-ROM.)

Installation of 50comupd.exe
 This section explains the updating operation of Windows<sup>®</sup> using
 "Update\50comupd.exe" on the CD-ROM.

Microsoft Windows Update	1)	Click the Yes button to start updating Windows.
Do you want to install the latest version of Windows common controls?		
Yes No		
Microsoft Windows Update	2)	Accept the agreement on the left screen and click the
Please read the following license agreement. Press the PAGE DOWN Key to see the rest of the agreement.		Yes button.
SUPPLEMENTAL END USER LICENSE AGREEMENT FOR MICROSOFT		
IMPORTANT: READ CAREFULLY - These Microsoft Corporation ("Microsoft") operating system components, including any "online" or		
electronic documentation ("OS Components") are subject to the terms and conditions of the agreement under which you have licensed the applicable Microsoft operating system product ("OS Product") described below (each		
an "End User License Agreement" or "EULA") and the terms and conditions of this Supplemental EULA BY INSTALLING, COPYING, OR OTHERWISE USING THE OS COMPONENTS YOU ACREE TO BE		
BOUND BY THE TERMS AND CONDITIONS OF THE APPLICABLE OS PRODUCT EULA AND THIS SUPPLEMENTAL EULA. IF YOU DO NOT		
AGREE TO THESE TERMS AND CONDITIONS, DO NOT INSTALL,		
choose No, Install will close. To install you must accept this agreement.		
Yes No		
Ļ	•	
Microsoft Windows Update	3)	Click the <u>Yes</u> button to restart the personal computer.
You must restart your computer before the new settings will take effect.		After the personal computer is restarted, start the
Lo you want to restart your computer now?		installation operation from step (2) 1).
Yes No		

(d) Installation of EnvMEL

Execute Setup.exe in the "EnvMEL" folder on this product CD-ROM. Install GX Developer after executing the "Setup.exe". After executing the above exe file, install the product again. If this product is not installed properly at this time, reboot the personal computer.

### 4.2.2 Uninstallation

This section explains deleting this product from the hardware.

🗟 Control Panel . U × File Edit View Favorites Tools Help - 🖻 🔍 Search 🖓 Folders 🧭 🦉 😤 🗙 🕫 🏢 🕇 쁂 S Ġ. Ì L **M** Add/Remove Hardware Add/Remove Programs dministrative Tools Date/Time Accessibility Options **Control Panel** 2 Z 1 ୍କ  $\mathbb{A}^{\mathcal{A}}_{a}$ Use the settings in Control Panel to personalize your computer. Folder Options Display Fonts Game Controlle Internet Options Select an item to view its description Windows Update Windows 2000 Support Ø ų B ٩ Kevboard Mouse Network and Dial-up Co... Phone and Modem ... wer Options 0 Ì 2 Printers Regional Options Scanners and Cameras Scheduled Tasks Sounds and Multimedia £, System Users and Passwords 22 object(s) 💷 My Compu 幅 Add/Rer 遇 Sort by: Name Currently installed programs: • 🔊 GX RemoteService-I Last Lised On To change this program or remo computer, click Change/Remove ଁ e it from ' Change/Rer oft Internet Explorer 6 SP Cl<u>o</u>se Confirm File Deletion × ?) Are you sure you want to completely remove 'GX RemoteService-I' and all of its compone Yes No (To the next page)

- Uninstallation of the product
  - Select [Start] [Settings] [Control Panel]. Then, select and double-click "Add/Remove Programs" in the Control Panel.

2) Select "GX RemoteService-I". Then, click the Add/Remove button.

> The screen shown on the left is the one for Windows<sup>®</sup> 2000 Professional. The displayed screen varies with the operating system.

When using Windows<sup>®</sup> 2000 Professional perform the following operation.

- (a) Click Change/Remove Programs .
- (b) Click "GX Configurator-AP".
- (c) Click the Change/Remove .
- 3) Check whether you will remove the software package or not.

When uninstalling it , click Yes.

Uninstallation starts.

When not uninstalling it, click No.

This returns to the preceding screen.

\* Components indicate the icons and files installed.

4 - 9

(From	the	previous	page)
	uic	previous	puge)

The system indicates that the following shared file is no longer used by any programs: If any programs are still using this file and it is removed those programs may not function. Are you sure you want to remove the shared file?         Leaving this file will not have you system. If you are not sure wheat to do, it is suggested that you choose to not remove this shared component.         File name:       fpSpr30.ocx         Located in:       C:WVINNT\System32\         Yes       Yes To <u>All</u>	
Leaving this file will not harm your system. If you are not sure what to do, it is suggested that you choose to not remove this shared component.  File name: [IpSpr30.ocx Located in: [C:\WINNT\System32\Yes Yes To <u>A</u> II No No to AII	
File name:     IpSpr30.ocx       Located in:     C:WINNT\System32\       Yes     Yes To <u>All</u> No to All	
Located in: C:\WINNT\System32\ Yes To <u>All No</u> No to All	
Yes Toğli <u>No Toğli</u>	
ove Programs From Your Computer	
uninstallShield will remove the software '6X RemoteService' from your computer. Please wait while each of the following components is removed	e
Shared program files     Standard program files	
✓ Folder items	
✓ Program folders	
✓ Program directories	
Program registry entries	
Uninstall completed. Some elements could not be removed. You should manually remove items related the application.	d to

4) If the left screen has appeared, click the No To All button.

If you click the Yes or Yes To All button, the shared file of the Windows<sup>®</sup> compatible MELSOFT software is removed. Therefore, click the No To All button when removing GX RemoteService-I only.

#### POINT

If files common to MELSOFT products are deleted, a MELSOFT product may be unusable.

5) Click the OK button when the message indicating the end of removal has appeared.

When the message indicating completion has appeared, uninstallation is complete.

### 4.3 Installing the USB Driver

When Windows<sup>®</sup> 2000 Professional, Windows<sup>®</sup> XP Professional and Windows<sup>®</sup> XP Home Edition is used, the USB driver must be installed to make CPU USB communication.

The following is the USB driver installation procedure.

#### POINT

If the USB driver cannot be installed, check the following setting.

• When Windows® 2000 Professional is used

If you have selected "Block-Prevent installation of unsigned files" after [Control Panel] - [System] - [Hardware] - [Driver Signing], the USB driver may not be installed.

Choose "Ignore-Install all files, regardless of file signature" or "Warn-Display a message before installing an unsigned file" for [Driver Signing], and install the USB driver.

• When Windows<sup>®</sup> XP Professional or Windows<sup>®</sup> XP Home Edition is used If you have selected "Block-Never install unsigned driver software" after [Control Panel] - [System] - [Hardware] - [Driver Signing], the USB driver may not be installed.

Choose "Ignore-Install the software anyway and don't ask for my approval" or "Warn-Prompt me each time to choose an action" for [Driver Signing], and install the USB driver.

#### [1] When Windows® 2000 Professional is used

The following indicates the procedure for installing the USB driver when using Windows<sup>®</sup> 2000 Professional.



 The screen shown on the left appears when you connect the personal computer and QCPU (Q mode) by the USB cable.

Click the Next>.

(To the next page)

MELSOFT

(From the previous page)

¥
Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
USB Device
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
<ul> <li>Usplay a list of the known drivers for this device so that I can choose a specific driver</li> </ul>
< Back Next > Cancel
Ļ
Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
DUSB Device
The wizard searches for suitable drivers in its driver database on your computer and in
any of the following optional search locations that you specify. To start the search, click Next, If you are searching on a floppy disk or CD-ROM drive.
insert the floppy disk or CD before clicking Next.
Uptional search locations:
Specify a location           Microsoft Windows Update
< <u>B</u> ack <u>N</u> ext > Cancel
Found New Hardware Wizard
Insert the manufacturer's installation disk into the drive
Cancel
Copy manufacturer's files from:
C:\Melsec\EasySocket\USBdrivers  Browse
▼
Completing the Found New Hardware Wizard
MITSUBISHI Easysocket Driver
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< <u>B</u> ack <b>Finish</b> Cancel
(Completion)

2) Choose "Search for a suitable driver for my device (recommended)" and click the Next>.

3) Check "Specify a location" and click the Next>.

 As the screen on the left appears, set the GX Developer installation destination "Easysocket\USBdrivers" and click the OK.

The screen shown on the left shows the example of setting C:\MELSEC\Easysocket\USBdrivers. If volume MELSOFT products have been installed, browse the installation destination of the first product.

5) The screen on the left appears to indicate completion of installation.

Click the Finish> to terminate installation.

#### [2] When Windows® XP Professional and Windows® XP Home Edition is used

The following indicates the procedure for installing the USB driver when using Windows<sup>®</sup> XP Professional or Windows<sup>®</sup> XP Home Edition.





(To the next page)

1) The screen shown on the left appears when you connect the personal computer and QCPU (Q mode) by the USB cable.

Choose "Install from a list or specific location [Advanced]" and click the Next>.

2) As the screen on the left appears, choose "Include this location in the search".

Check "Include this location in the search" and set "Easysocket\USBDrivers" of the folder where GX Developer was installed.

After setting, click the Next>.

The screen shown on the left shows the example of setting C: \MELSEC\Easysocket\USBDrivers. If volume MELSOFT products have been installed, browse the installation destination of the first product.

3) As the screen on the left appears, click the Continue Anyway

## REMARK

Though the screen on the left appears during installation of the USB driver, we have confirmed that the USB driver operates properly using Windows® XP Professional or Windows® XP Home Edition. (No problem will occur after installation of the USB driver.)

Click Continue Anyway to continue the installation of the USB driver.



4) The screen on the left appears to indicate completion of installation.

Click the Finish to terminate installation.

## 4.4 Personal Computer Setting Procedure

This section explains the items to be set on the personal computer. When making access from the personal computer to the server (personal computer), make a contract to use the Internet with the personal computer.





## 5. INSTALLATION OF WEB SERVER SOFTWARE

For installation and uninstallation operations of this product (GX RemoteService-I), refer to "Method of installing the MELSOFT Series" included in the product.

#### 5.1 Windows® 98





 POINT

 If you have added the alias with Web issue ON, stop Web issue once and click the

 Start
 button again to turn Web issue ON.

### 5.2 Windows NT<sup>®</sup> 4.0

(Start)



The following indicates how to set up the Web server.

- 1) Set the CD-ROM included with the used server (personal computer) into the CD-ROM drive and execute
- 2) Choose [Programs] [Windows NT 4.0 Option Pack] -[Microsoft Personal Web Server] - [Personal Web
- 3) As the screen on the left appears, click [Advanced].

4) Choose Home from the Virtual Directories and click the

Ť (To the next page)

)irectory:	C:\MELSEC	\RAS\hc	ome\INDEX			_	Browse
lias:	Index					-1	
A							
Access						_	. On the
I <b>v</b> <u>K</u> ea	3		Execute	,		I <b>v</b>	Scripts
					OK		Cancel
erconal Web	Manager		+				
perties View	Help						
× )	Advance	d Opti	ons				<u>-</u>
Main		ti_pvt ti_txt					_Add
\$	- 🕞 /cg - 🕞 /IIS	i-bin ADMIN					Edit Properties
Publish		ADMPWD HELP SAMPLES					Bemove
3	🕞 /ind 🕞 /ms	iex adc					
Web Site	- 🕞 /SC	RIPTS EBPUB				•	
8	F Enable Def	ault Docum	ient				
Tour	Default Docum	nent(s):	Default.htm,Defai	ultasp			_
Advanced	<ul> <li>Allow Directory</li> <li>Save Web Site</li> </ul>	/ Bro <u>w</u> sing e Activity <u>L</u> o	og				
			1				
, j							
J							
,			+				
<b>tersonal Web</b> perties ⊻iew	Manager Help		*				
r <mark>ersonal Web</mark> perties <u>Vi</u> ew	Manager Help Main		+				<u></u>
<b>rersonal Web</b> perties ⊻iew & Main	Manager Help Main Publishing Web publishin	g is off. You	vr home page is r	not available			\$
ersonal Web perties View Wein	Manager Help Main Publishing Web publishin	g is off. You	Ir home page is r	not available	site available		2
rereonal Web perties ∑iew Wein Mein Protiet	Manager Help Main Publishing Web publishing Web publishin Start Your home dire	g is off. You ] Click S actory	ur home page is r	not available tems on your	site αvailable.		
rersonal Web peries View Wein Mein Puoliet	Manager Help Main Publishing Web publishin Ustart Your home dire (To change pu	g is off. You Click S actory blished dim	tor to make the interference of the sector o	not available tems on your	site available. the list on the le	ft.)	<u></u>
ersonal Wab pertes Vew Wein Mein Puolist Vobiste	Manager Help Main Publishing Web publishin Web publishin Start Your home dirr (To change pu	g is off. You Click S ectory blished dim	↓ Ir home page is r tart to make the i ectories, click "A	not available tems on your dvenced <sup>er</sup> in View 5	site available. the list on the le Statistics:	tt.)	2
ersonal Web parties Vew Main Poelist Web Ste	Manager Ewip Publishing Web publishin Your home dire To change pu Advise com Not formore	g is off. You Click S ectory (blished dim rections: 3.	tur home page is r tart to make the i	not available tems on your dvanced" in View 1 Requ	: site available. the list on the le Statistics: ests per Day	ft.)	×.
erround Web perfies Dew Mein Puolisti Web Site Tour	Manager Help Publishing Web publishin Start Your home dire (To change pu Advive corr Nof Curren Vantoning Vantoning Vantoning	g is off. You Click S actory iblished diri	tur home page is r harit to make the r ectories, click "A	not evailable tems on your dvanced" in View Requ	; site available, the list on the le Statistics: ests per Day	tt.)	× •
Arresonal Web perites Vew Mein Derifes Web Sce Tour	Manager Help Publishing Web publishin Web publishin To change pu Advis com Not Ruman Not Ruman Visitors Petersets Beta sewa	g is off. You Click S actory Iblished din Versions 3.	↓ In thome page is a tanta make the it actories, click "A	not available tems on your dvanced" in Views Requ	, site available, the list on the le Statistics: ests per Day	tt.)	×
Arreaned Web parties Jew Mein Destrict Web Ster Tour Tour	Menoger Belp Publishing Web publishin Web publishin Your home dire To change publishin To change publishin To change publishing Advis como Net Camen Net Camen Yestore Precessor Betra setty Most como	g is off. You Click S actory iblished dire rections: d: act: rentcomme	trhome page is n tarta make the i ectories, click "A	not available tems on your dvanced" in Views Requ	site available. the list on the le Statistics: ests per Day	ft.)	

5) As the Add Directory dialog box appears, make the following settings.

Directory: Specify "C:\MELSEC\RAS\home\INDEX". (When you changed the installation destination folder at the installation of GX RemoteService-I, specify the folder.) Alias: Enter "Index".

Access: Enable "Read" and "Scripts".

Click the OK button.

 An alias (index) is added to the virtual directory. Click [Main] after confirming that the alias has been added.

7) Click the Start button in the "Publishing" list.

#### 5.3 Windows® 2000 (Professional)

The following indicates how to set up the Web server.



Sort by: Name

⊆han

Last Lis

Ŧ

9.56MB

65.8ME

Close

 Set the CD-ROM included with the used server (personal computer) into the CD-ROM drive and open [Add/Remove Programs] from [Control panel].

2) Click [Add/Remove Windows Components].



enable [Internet Information Service (IIS)] and click the Next> button. (Installation starts. Installation ends when the completion screen appears.)

3) Since the Windows Components Wizard screen starts,

ß

add Ne

Currently installed programs:

🛃 MX Component

To change this program or remove it from your computer, click Change/Remove.

Microsoft Office 2000 SR-1 Premium



4) Choose [Start] - [Programs] - [Administrative Tool] -[Internet Services Manager].

Since [Administrative Tool] in the Start menu is hidden by default on Windows<sup>®</sup> 2000, display it in the following operation method.



Right-click on the taskbar to display the above menu, and choose [Properties].

Enable "Display Administrative Tools" in the [Taskbar and Start Menu Properties].

Faskbar and Start Menu Properties	? ×
General Advanced	
Customize Start menu	
You can customize your Start menu by adding or	A <u>d</u> d
removing items from it.	Remove
	Ad <u>v</u> anced
	Re- <u>s</u> ort
To remove records of recently accessed documents, programs, and Web sites, click Clear.	
Start Menu Se <u>t</u> tings	
Display Administrative Tools     Display Favorites     Display Logoff     Expand Control Panel	
OK Cance	el <u>A</u> pply

Internet Service Manager starts.

 On the screen shown on the left, choose [Default Web Site] and right-click to choose [New] - [Virtual Directory].

Arritual Directory Creation Wizard         Welcome to the Virtual Directory Creation Wizard         Directory Creation Wizard         This wizard will help you create a new virtual directory on this web site.         Click Next to continue.         Click Next to continue.         Vella Directory Creation Wizard         Virtual Directory Alias         You must give the virtual directory a short name, or alias, for quick reference.         Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.         Alias:
Welcome to the Virtual Directory Creation Wizard         Directory Creation Wizard         This wizard will help you create a new virtual directory on this web site.         Click Next to continue.         Click Next to continue.         Variable Control (Control (Contro) (Control (Control (Control (Control (Control (Control (Control (
Fitual Directory Creation Wizard         Directory Creation Wizard         This wizard will help you create a new virtual directory on this web site.         Click Next to continue.         Click Next to continue.         Variation         Virtual Directory Creation Wizard         Virtual Directory Creation Wizard         Virtual Directory Creation Wizard         You must give the virtual directory a short name, or alias, for quick reference.         Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.         Alias:
Directory Creation Wizard         This wizard will help you create a new virtual directory on this web site.         Click Next to continue.         Click Next to continue.         Virtual Directory Creation Wizard         Virtual Directory Alias         You must give the virtual directory a short name, or alias, for quick reference.         Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.         Alias:
This wizard will help you create a new vitual directory on this web site. Click Next to continue. Click Next to continue. Click Next to continue. Click Next to continue. Click Next to continue. Cancel Value Directory Creation Wizard Value Directory Creation Wizard Value Directory Alias You must give the vitual directory a short name, or alias, for quick reference.
This wicad will help you create a new virtual directory on this web site. Click Next to continue. Click Next to continue. Click Next to continue. Click Next to continue. Click Next to continue. Cancel
This wizard will help you create a new virtual directory on this web site.
Click Next to continue. Click Next to contin
Click Next to continue. Click Next to continue. Click Next to continue. Cancel Can
Click Next to continue.          < Back
Click Next to continue.  Click Next to continu
Click Next to continue.
Virtual Directory Creation Wizard  Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference.  Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.  Alias:
Virtual Directory Creation Vizard Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference.  Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.  Alias:
Yurtual Directory Alias         You must give the virtual directory a short name, or alias, for quick reference.           Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.         Alias:
Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.
Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory. Alias:
Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory. Alias:
same naming conventions that you would for naming a directory. Alias:
Alias:
Index
< Back Next> Cancel
¥
Virtual Directory Creation Wizard 🛛 🔀
Web Site Content Directory
Where is the content you want to publish on the Web site?
Enter the path to the directory that contains the content.
Directory:
C:\MELSEC\RAS\Home\Index Browse

↓ (To the next page)

6) Virtual Directory Creation Wizard starts.

7) Enter "Index" in [Alias] and click the Next> button.

8) Enter "C:\MELSEC\RAS\Home\Index" in [Directory] and click the Next> button.

(When you changed the installation destination folder at the installation of GX RemoteService-I, specify the folder.)



(Completion)

9) Check "Read", "Run scripts (such as ASP)" and click the

10) The virtual directory creation has been completed as the Click the Finish button to finish the wizard.

The following indicates how to set up the Web server.

LOX

Sort by: Name

#### 5.4 Windows® XP (Professional)

(Start) ↓

Add or Remove Programs

Currently installed program

🖄 Adobe Reader 6.0

B

Change or Remove Programs

Add New Programs Change Remove 😹 Internet Explorer Q822925 Cutlook Express Update 033099 Windows XP Application Compatibility date[0319580] Windows XP Hotfix - KB82155 御 Windows XP Hotfix - KB823559 🕼 Windows XP Hotfix - KB823980 副 Windows XP Hotfix - KB824105 副 Windows XP Hotfix - KB824146 御 Windows XP Hotfix (SP1) [See 0309521 for more information] Windows XP Hotfix (SP1) [See Q311889 for more information Windows XP Hotfix (SP1) [See Q311867 for more information Windows XP Hotfix (SP1) [See Q313450 for more information Windows XP Hotfix (SP1) [See Q314862 for more information] Close Windows Components Wizard X Windows Components E) You can add or remove components of Windows XP To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. Components: 🗹 ም Indexing Service 0.0 MB 🔥 🗹 🚎 Internet Explorer 0.0 MB 🗹 🥞 Internet Information Services (IIS) 15.7 MB ☐ 🚔 Management and Monitoring Tools □ 🚾 Messane Queuinn 2.0 MB ппмв × Description: Includes Web and FTP support, along with support for FrontPage, transactions, Active Server Pages, and database connections. Total disk space required: Space available on disk: 18.2 MB 6501.2 MB Details... <<u>Back</u> <u>N</u>ext> Cancel Internet Information Services (IIS) To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. Subcomponents of Internet Information Services (IIS): 🗹 🔷 Common Files 1.0 MB 🔺 🗹 🧟 Documentation 3.5 MB 💭 File Transfer Protocol (FTP) Service 0.1 MB 🗹 🗞 FrontPage 2000 Server Extensions 4.1 MB 🗹 🃸 Internet Information Services Snap-In 1.3 MB ✓ ≣ma SMTP Service 3.6 MB 2.2 MB 💌 🗹 📣 World Wide Web Service Description: Installs Required IIS program files Total disk space required: 18.2 MB Details Space available on disk: 6499.5 MB OK Cancel

(To the next page)

1) Select [Start] – [Control Panel] – [Add/Remove Programs] to display "Add/Remove Programs" screen.

Click "Add/Remove Windows Components" icon, which is situated in the left of the screen.

2) Check [Internet Information Service (IIS)].

When installing IIS with the default setting, click the Next> button and proceed to step 6.

When setting which sub components will be installed or not, click the Details button with [Internet Information Service (IIS)] checked, and proceed to step 3.

 [Make the settings if necessary.] Select which sub components will be installed or not by checking or unchecking the corresponding boxes, respectively.

After the settings are completed, click the OK button to return to step 2.

"SMTP Service" and "WWW (World Wide Web) Service" include respective sub components. When selecting which sub components will be installed or not, click the Details button.

When setting "SMTP Service" sub components, proceed to step 4; "WWW (World Wide Web) Service" sub components, step 5.

MELSOFT
SMTP Service To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. Sub<u>c</u>omponents of SMTP Service: 3.6 MB Description: SMTP service files Total disk space required: 18.3 MB Details Space available on disk: 6500.1 MB OK Cancel World Wide Web Service To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. Subcomponents of World Wide Web Service 0.0 MB Remote Desktop Web Connection 0.3 MB □ 🕞 Scripts virtual directory ☑ 🧑 World Wide Web Service <u>О О МВ</u> 1.9 MB Description: Default Web Site virtual directory Printers Total disk space required: 18.3 MB <u>D</u>etails Space available on disk: 6499.6 MB 0K Cancel Windows Components Wizard Configuring Components Setup is making the configuration changes you requested. R Please wait while Setup configures the components. This may take several minutes, depending on the components selected. 0 Status: Building file list. < Back Next > Cancel vs Components Wizard Completing the Windows Components Wizard 0 You have successfully completed the Windows Components Wizard To close this wizard, click Finish < Back Finish

(To the next page)

 [Make the settings if necessary.] Set which sub components will be installed or not by checking or unchecking the corresponding boxes, respectively.

For details of sub components, refer to Description section.

After the settings are made, click the OK button to go back to step 3.

5) [Make the settings if necessary.] Set which sub components will be installed or not, by checking or unchecking the corresponding boxes, respectively.

For details of sub components, refer to Explanation section.

After the settings are made, click the OK button to go back to step 3.

 Clicking the Next> button at step 2 displays the left screen and installation of IIS will be started.

 If the installation of IIS is completed, the left screen appears. Click the Finish button to close Windows Components Wizard screen.

#### (From the previous page) Windows Media Player Windows Messenger Component Services m Microsoft IEAK I Computer Management Microsoft Access 🗃 Data Sources (ODBC) Microsoft Excel Event Viewer 👔 Internet Information Ser Microsoft FrontPage Microsoft Outlook Local Security Policy Microsoft PowerPoin Performance All Programs 🕨 👿 Microsoft Word B Server Extensions Admin Services 🖉 Log Off 🕕 Tu 🛃 start

 Choose [Start] - [Programs] - [Administrative Tools] -[Internet Information Services].

Since [Administrative Tools] in the Start menu is hidden by default on Windows<sup>®</sup> XP, display it in the following operation method.



Right-click on the taskbar to display the above menu, and choose [Properties].

Click the Customize button in the <Start Menu> tab of

the [Taskbar and Start Menu Properties]. Choose "Display on the All Programs menu and Start menu" in the [Customize Start Menu].

Customize Start Menu
General Advanced
Start menu settings
Start menu items:
Scroll Programs Search Sustan Administrative Tools
Jystem Administrative Tobis     Display on the All Programs menu     Display on the All Programs menu and the Start menu
O Don't display this item
Recent documents
Select this option to provide quick access to the documents you opened most recently. Clearing this list does not delete the documents.
List my most recently opened documents
OK Cancel

Internet Information Services starts.

9) On the screen shown on the left, choose [Default Web Site] and right-click to choose [New] - [Virtual Directory].



**X** 

Cancel



Virtual Directory Creation Wizard

Alias: Index

Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference

Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory. 10) Virtual Directory Creation Wizard starts.

11) Enter "Index" in [Alias] and click the Next> button.

Virtual Directory Creation Wizard
Web Site Content Directory
Where is the content you want to publish on the Web site?

< Back

(To the next page)

12) Enter "C:\MELSEC\RAS\Home\Index" in [Directory] and click the Next> button.

(When you changed the installation destination folder at the installation of GX RemoteService-I, specify the folder.)

(From the previous page) 13) Check "Read" and "Run scripts (such as ASP)", and Virtual Directory Creation Wizard X Access Permissions What access permissions do you want to set for this virtual directory? click the Next> button. Allow the following: ₩ <u>R</u>ead 💌 Run <u>s</u>cripts (such as ASP) Execute (such as ISAPI applications or CGI) ∏ <u>W</u>rite E Browse Click Next to complete the wizard. < Back Next> Cancel T 14) The virtual directory creation has been completed as the Virtual Directory Creation Wizard X You have successfully screen shown on the left appears. completed the Virtual Directory Creation Wizard. Click the Finish button to finish the wizard. Click Finish to continue. Finish T

(Completion)

# 6. SETTING THE GX RemoteService-I FUNCTIONS

This chapter explains the function settings to be made on the server (personal computer).

You may make each setting as desired, but using the Wizard allows you to make settings easily.

Refer to Chapter 4 for the setting items and procedures.

Starting GX RemoteService-I displays the following screen. Refer to Section 6.2 and Sections 6.3.1 to 6.3.9 for detailed explanation of the corresponding setting screens.

MELSOFT series GX RemoteService-I	×
<ul> <li>Operating mode</li> <li>Auto drive mode</li> <li>This is an always watch device mode.</li> <li>This will automatically DiaLun and send e-mail when a trigger</li> </ul>	
C Manual mode	
Dial-up and send e-mail by manual operation. Your current e-mail software can be used for sending e-mails. (Cannot execute the device always watch.)	
Setting wizard Execute Exit	

Select the automatic or manual operation mode and then click the Setting wizard button to display the Wizard screen.

Whether the setting items must be set or not in the automatic and manual operation modes is as indicated in the following table.

Sotting itom	Operation mode		Description		
Setting terri	Auto	Manual	Description		
Security setting	Δ	Δ	Settings for client authentication. With the settings, the server identifies a client when the client connects to the server.		
E-mail setting	0	Δ	Settings for using the GX RemoteService-I mail function. Not required when using Microsoft <sup>®</sup> Outlook Express or other mail software in manual operation mode.		
Network setting	0	0	Settings for network connection method of the server.		
PLC type selection	0	0	Settings for PLC series and PLC type of the PLC CPU that a client accesses first.		
Specify target	0	0	Settings for connection method between the server and PLC CPU.		
Device range setting	Δ	$\triangle$	Settings for the first device that will be monitored by the client.		
Tag setting	Δ	$\triangle$	Settings for handling devices monitored by the client as tags.		
Auto drive setting	0		Settings for e-mail transmission triggers and e-mail message. Required when using auto operation mode.		
Dev. Disp. setting	Δ	Δ	Settings for screen that appears in the client.		

O: Necessary  $\triangle$ : Might be necessary —: Unnecessary.

## 6.1 Setting Wizard

The following screen is displayed by clicking the [setting wizard] button on the operation mode selection screen. Follow the messages to make setting.



### POINT

Refer to Section 6.3 for the explanation of detailed items to be set with the Setting Wizard.

## 6.2 Main Screen

This section explains the server URL, dial-up execution, e-mail send and other functions.

Security setting         Security setting: Nothing           E-mail setting         Use mail send of GX RemoteService-I           Network setting         Connection name: LAN connection A mail renotice in line reconnection: Not Execu           PLC type selection         QCPU(Qmode) Qn(H)           Specify target         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count 0 Effective count 0	🖣 MELSOFT series GX Rem	oteService-I Auto drive mode				_ 🗆 X		
Security setting         Security setting: Nothing           E-mail setting         Use mail send of GX RemoteService-I           Network setting         Connection name: LAN connection A mail renotice in line reconnection: Not Execu           PLC type selection         QCPU(Qmode) Qn(H)           Specify target         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count 0 Effective count 0								
E-mail setting         Use mail send of GX RemoteService-I           Network setting         Connection name: LAN connection A mail renotice in line reconnection: Not Execu           PLC type selection         QCPU(Qmode) Qn(H)           Specify target         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count: 0 Effective count: 0	Security setting	Security setting: Nothing						
Network setting         Connection name: LAN connection A mail renotice in line reconnection: Not Execu           PLC type selection         QCPU(Qmode) Qn(H)           Specify target         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count: 0 Effective count: 0	E-mail setting	Use mail send of GX Rem	Use mail send of GX RemoteService-I					
PLC type selection         QCPU(Qmode) Qn(H)           Specifytarget         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count: 0 Effective count: 0	Network setting	Connection name: LAN cor	Connection name: LAN connection A mail renotice in line reconnection: Not Execu					
Specifytarget         Serial port PLC module connection           Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count: 0 Effective count: 0	PLC type selection	QCPU(Qmode) Qn(H)						
Device range setting         X0 16 points (X0-XF)           Tag setting         Setting count: 0 Effective count: 0	Specify target	Serial port PLC module co	nnection					
Tag setting Setting count: 0	Device range setting	X0 16 points (X0-XF)						
	Tag setting	Setting count: 0 Effective c	Setting count: 0 Effective count: 0					
Auto drive setting Setting count: 0 Effective count: 0	Auto drive setting	Setting count: 0 Effective count: 0						
Dev. disp. setting Character display (ON: X OFF: O) Do not set	Dev. disp. setting	Character display (ON: X OFF: 0) Do not set						
Setting check	Setting check							
Server URL http:///Index/default.asp?U= Dial-up time Starts auto drive	Server URL http://	/Index/default.asp?U=	Dial-up time		Starts a	uto drive		
Log information Clear log Dial-up disconnecting time Dial-up execute	Log information Clear	log	Dial-up disconnecting time		Dial-up e	execute		
URL copy				-	URL	сору		
Send e-mail	e-mail							
Product information	mation							
Return to mode selection	selection							

Item	Description						
Server URL	Shows the URL with the IP address.						
	Shows "" instead of the IP address if the IP address assigned by the Internet service						
	provider cannot be acquired.						
	This product cannot be used when the IP address is not displayed.						
Log information	Shows error definition in the automatic operation mode.						
	<ul> <li>Shows the errors and operation of the personal computer.</li> </ul>						
	Shows the time and date.						
	The log can be copied in the selected range.						
	• The log is up to 100 lines long. If it exceeds 100 lines, the older lines are deleted in due order.						
"Clear log" button	Clears the message in log information.						
Dial-up time	Shows the elapsed time after dial-up execution.						
The time is updated at intervals of five seconds.							
	":" appears if:						
	Dial-up is not executed; or						
	Dial-up is executed from other than GX RemoteService-I.						
	If the time has exceeded 9999:59:59 (9999 hours 59 minutes 59 seconds), it returns to 00:00:00.						
Dial-up	Appears when the automatic line disconnection system is access time monitoring or dial-up						
disconnection time	disconnection timer in the line disconnection setting. (":" appears if the setting is not made.)						
	Counts down to zero.						
	The time is updated at intervals of five seconds.						
	For access time monitoring, countdown starts from the preset time every time access is made.						
	The line is disconnected when the time is zeroed.						
"Starts auto drive"	Always executes monitoring.						
button	The button name changes to "stop auto drive" during automatic operation, and clicking it						
	terminates the automatic operation.						
"Dial-up execute"	Starts dial-up connection with the preset connection name (this button is masked when the dial-						
button	up connection name is not yet set).						

Item	Description
"URL copy" button	Copies the address displayed in the Server URL. When sent from the e-mail function of GX RemoteService-I, the address is added to the mail text automatically.
"Send e-mail" button	Sends e-mail to the preset send destination.
"Product information" button	Displays the version of the product.
"Return to mode selection" button	Returns to the automatic operation mode/manual operation mode selection screen.

## REMARK

The following gives a procedure for sending in the manual operation mode using the e-mail software such as Microsoft<sup>®</sup> Outlook Express.



(Start)

(1) Start the mail software and create a mail text.

(2) Click the "URL copy" button on GX RemoteService-I.

http://000.000.000.000/index/default.asp

(3) Paste the URL copied from GX RemoteService-I to the created mail text.

Fault occurred on line A in plant A!

↓ (Completion)

## 6.3 Setting the Server (Personal Computer) Functions

## 6.3.1 Security setting

When a connection is made to the server, this function identifies the client based on the user names and passwords registered within the server, in order to prevent an illegal access. Note that this function is not available while the Web function is used.



Item	Description				
Enable	Used to enable/disable the registered name.				
User name	Jser names registered in "User name/Password setting" screen are displayed.				
"Edit" button	Used to set the user name and password.				
	User name/Password setting X User name: mitsubishi Password: ******** Password for confirmation: ******** OK Cancel				
	Item Description				
	User name Enter a user name (1 to 20 alphanumeric characters/symbols).				
	Password Enter a password (8 to 14 alphanumeric characters/symbols).				
	Password for confirmation Enter the above password for confirmation.				
	There are following three setting patterns:				
	1) Both of user name and password are set.				
	2) Only user name is set.				
	3) Neither of user name or password is set.				
"Delete" button	Used to delete the selected user name and the corresponding password.				

#### POINT

For security setting using the Web server module, refer to the Web server module user's manual.

# 6.3.2 E-mail setting

Set as required since the items to be set differ between the automatic and manual operation modes.

We recommend you to read "Description for Use" or like sent from the provider to make settings.

E-	mail setting						×
	- E-mail common information -					Transmission ta	rget setting
	Send mail (SMTP) server	jbsmine.pcn.co.jp	Trar	ns. targ	et setting e-mail specificatio	n during manual dri	/e
	Receive mail (POP3) server	jbsmine.pcn.co.jp		Mail	Trans. e-mail address	Remarks	
	Accountiname	vriu63	2				
	Paceword	******	3				
	1 0350010		4				
	E-mail address	gx_remote@jbsmine	5	-			
			7				
	- Message creation during mar	iual drive	8				
	Subject of message		9				
	Body of message		10				
		A	11	-			
			13				
			14				
			15				
			16				
			17				
			18	-			
		7	20				
			20		I		
I	Use mail send of GX Remo				Se	etting completion	Cancel

Item	Description	
Send mail (SMTP)	Specify the server to be used when sending e-mail from GX RemoteService-I.	
server	Set the address supplied by the provider.	
	Number of acceptable characters: 1 to 256 characters	
Send mail (POP3)	Enter the server to be used when receiving e-mail.	
server	Set the address supplied by the provider.	
	Number of acceptable characters: 1 to 256 characters	
Account name	Specify the account name for POP3 server authentication.	
	Set the account name supplied by the provider.	
	Number of acceptable characters: 1 to 255 characters	
Password	Specify the password of the account name for POP3 server authentication.	
	Set the password of the account name supplied by the provider.	
	Number of acceptable characters: 1 to 255 characters	
E-mail address	Specify the returning mail address.	
	You can set 1 to 255 characters.	
	Note: Though GX RemoteService-I does not have the function to receive e-mail, set this address	
	since it is needed when sending e-mail.	
Subject of message	Set the subject of e-mail.	
	Number of acceptable characters: 1 to 256 characters	
	Note: All the subject may not be displayed depending on the model used.	

MELSOFT

(From the previous page)

Item	Description						
Body of message	Enter the text of e-mail. Number of acceptable characters: 0 to 256 characters						
	Since the URL of the server is added to the character string sent actually, create a message in						
	consideration of the n	consideration of the number of URL characters.					
	Description						
"Transmission target	You can set the send destination in the manual mode only.						
setting" button	Transmission	target setting					
	T 1 aaa( 2 bbb/	rans. e-mail address         Remarks         Mail         Watch1         Watch2         Watch3         Watch4         Watch5           2****.colp         A co. Mr. A         Image: A co. M					
	3 4						
	6 7						
	8 9 10						
	11 12 13						
	14 15 16						
	17 18 19						
	20						
		Copy Paste Delete All clear Setting completion Cancel					
	Item	Description					
	Trans. e-mail     Set the e-mail address of the personal computer.						
	Remarks	Set it within the range 1 to 255 characters.					
	riemano	Enter them within 256 characters.					
	Mail	Can be set in the manual operation mode only.					
		Set whether e-mail will be sent or not.					
		In the automatic operation mode, the status set for automatic operation setting					
	watch 1 to watch 10	Can be set in the automatic operation mode only.					
		Set whether the system will be monitored or not in the automatic operation					
		detail setting.					
	"Copy" button	Used to copy the selected row.					
		To choose the row, click any of numbers 1 to 20.					
	"Paste" button	Used to paste the copied row.					
	"Delete" button	Used to delete the selected row.					
		To choose the row, click any of numbers 1 to 20.					
		You cannot delete the row unless the whole row is selected.					
"All clear" button Used to delete all rows.							
Trans torget setting	Mail	· Soloot whother a mail will be east or pat					
	Mail : Select whether e-mail will be sent or not.						
	Can be set in the manual operation mode only.						
	Pomarka : You can set the additional information on the a mail cond						
	destination.						
Use mail send of GX	Can be selected in the manual operation mode						
RemoteService-I	Automatically set in the automatic operation mode						

# 6.3.3 Network setting

This section	explains	the network	setting

Network setting		×
Connection type C LAN connection C Dial-up connection	Advanced	Setting completion Cancel
HTTP port No. for MELSOFT con C Default port No. (8080) C Appoint a port No.	inection	
HTTP port No. for Web facility — © Default port No. (80) © Appoint a port No.		

Item	Description		
"Advanced" button for "LAN connection"	Advanced LAN set	Advanced LAN settings  IP acquisition method  Acquire IP address automatically  Acquire IP address from a router (UPnP)  Use the following IP address  In IP address modification by line reconnection, notify of a mail automatically	
	Item	Description	
	Acquire IP address automatically	Select this option when an IP address can be automatically acquired. For whether an IP address can be automatically acquired or not, refer to Section 2. 2.1.	
	Acquire IP address from a router(UPnP)	Select this option when using a UPnP-compatible router or router type DSL modem. An IP address can be automatically acquired in a system including a router or other intermediary device.	
	Use the next IP address	For Intranet or fixed IP, specify the IP address. However, select "Acquire IP address from a router (UPnP)" for the internet system including a UPnP-compatible router, router type DSL modem or other intermediary device, even if it uses a fixed IP address. Only numeric characters are applicable for an IP address.	
	In IP address modification	When the server IP address is changed by line-	
	by line reconnection, notify	reconnection (due to line-disconnection) in auto drive	
	you of a mail automatically	ode, GX Remote Service-I will detect the new IP Idress to notify the client.	

Item	Description		
"Advanced" button	Advanced Dial-up settings		
for "Dial-up connection"		Dialup crt, name       CC         Advanced Dialup sellings         Filedial obsers         Count:       Times Interval         Out the disconnection in the disconnection, and a main notifies you of changed IP address         Addo line disconnection method         If Access the method         (Disconnectine the Dialup connection in case of no access for certain time)         If Access the method         (Disconnectine the Dialup connection in case of no access for certain time)         If Access the connection time         (Disconnectine the Dialup disconnection time certain time)         If Access the connection time certain time)         If Access the connection time certain time)         If Access the connection time certain time)         If additional time         If additional time connection time setting on client side.         If additional connection on time setting on client side.         If additional connection on time setting on client side.         Betting completion       Cancel	
	Item	Description	
	Dial-up cnt. name	Select the connection name set in the Dial-up setting.	
		Up to 16 characters can be displayed.	
	Redial option	Set the number of times to execute redial for reconnection to	
		the provider after line disconnection, and the redial execution	
		intervals. Also set whether to redial (reconnection) in line	
		disconnecting and notify you of the changed IP address.	
		Laten al: Set the number in the range of 0 to 99.	
	Access timer watch	Check this item to disconnect the Diel up connection if no	
	Access timer watch	access is made to the server (personal computer) for a certain time. Hour: Set the number in the range of 0 to 99. Minutes: Set the number in the range of o to 59. Note that "0 Hour 0 Minutes" cannot be set.	
	Dial-up disconnection timer	Check this item to disconnect the dial-up connection after a certain time has passed. Hour: Set the number in the range of 0 to 99. Minutes: Set the number in the range of o to 59. Note that "0 Hour 0 Minutes" cannot be set.	
	Enable disconnection	Check this item to enable a mobile phone to disconnect the	
	of Dial-up connection	Dial-up connection of the server (personal computer).	
	on client side.	Devices other than the mobile phone that disconnected the	
		connection are not allowed to connect to the server (personal	
		computer), as the line was disconnected without notice.	
HTTP port No. for MELSOFT connection	When "Appoint a port No." However, when the Web s fixed to "8080".	' is selected, set the port No. in the rage of 1024 to 65535. server module is used as operating environment, the port number is	
HTTP port No.	When "Appoint a port No."	is selected, set the port No. in the rage of 1024 to 65535.	
for Web facility	However, when the Web s	erver module is used as operating environment, set the port	
number using the Web server module as follows: Select [Administrative menu] – [System setting].		rver module as follows:	
		nu] – [System setting].	
	For details, refer to the We	eb server module user's manual.	

# 6.3.4 PLC type setting

As the PLC type, set the PLC series and PLC type of the PLC to be accessed first from the personal computer.

PLC type selection	×
Specify the PLC series of the PLC type at first in the client side.	to be monitored
PLC series	Setting completion
PLC type	Cancel
Qn(H)	

Item	Description					
PLC series	Set the items when selecting or changing the PLC Series and/or PLC type of the PLC to be accessed first from the personal computer.			st		
PLC type	trom the personal computer.					
	PLC series	PLC type	Remark			
	ACPU	AnN, AnA, AnS, AnSH	A0J2H, A1FX, A1S, A1SJ, A1SH, A1SJH, A1N, A2C,			
			A2CJ, A2N(S1), A2S, A2SH, A3N, A2A(S1), A3A			
		AnU, A2AS	A2U(S1), A2AS(S1), A2AS-S30, A2AS-S60, A3U, A4U			
	QnACPU	—	Q2A, Q2AS(H), Q2AS1, Q2AS(H)S1, Q3A, Q4A, Q4AR			
	QCPU-Q	Qn (H)	Q02(H), Q06H, Q12H, Q12PH, Q25H, Q25PH			
		Q00J,Q00,Q01	Q00J, Q00, Q01			
	QCPU-A	_	Q02(H)-A, Q06H-A			
	SCPU	A171SH	A171SH			
		A172SH	A172SH			
		A173UH (S1)	A173UH(S1)			
		A273UH (S3)	A273UH(S3)			
	FXCPU	_	FX0(S), FX0N, FX1, FXU, FX2C, FX1S, FX1N, FX2N(C)			
	If you have chosen the PLC Series and/or PLC type other than the one currently set, the following dialog box					
	appears for confirm	nation.				
		MELSOFT series GX Rem	ioteService-I			
		Return the Target of Action 1	connection specification and device to default values.			
		Change PLC series	s and PLC type ?			
			Yes No			
	Click the "Ves" but	Olial, the "Ves" by the shares the following estimate and indications				
	Changes the E	on to change the following	y settings and indications.			
	Changes the c	onnection setup to the PL	C CPLI direct coupled path			
	Changes the d	evice range setting to the	default value			
	Changes the tage	a setting to the default va				
	Changes the automatic operation setting to the default value					
	Clicking the "No" button does not change the settings.					

## 6.3.5 Connection setup



Set the connection setup between the server (personal computer) and PLC. This setting also specifies the PLC to be accessed first from the personal computer.

## (1) Access to the host

Item	Description
PC side I/F	For Q series PC side I/F Serial setting C FS-232C CK
	COM port COM 1 Baud rate 19.2Kbps
	<ul> <li>USB may be set only when the QCPU (Q mode) has been selected.</li> <li>Precautions for communication at 115.2/57.6kbps</li> <li>Fast communication cannot be made if the personal computer used is not compatible with the communication speed of 115.2/57.6kbps.</li> <li>If communications delay due to communications tries or a communication error occurs, reduce the baud rate setting and restart communication.</li> <li>Precautions for making USB communication</li> <li>Refer to the GX Developer Operating Manual.</li> </ul>

Item	Description			
PC side I/F	QnA/A/FX series			
	PC side I/F Serial setting			
	• The haud rate that can be selected depends on the PLC Series and PLC type			
	<ul> <li>The badd rate that can be selected depends on the PLC Seles and PLC type.</li> <li>Choose 9.6kbps for the A Series.</li> <li>For the QnA Series, the PLC CPU that can communicate at the 38 4kbps speed is the QnACPU.</li> </ul>			
	of unction version B or later. Refer to the GX Developer Operating Manual for the way to identify			
	the module version.			
	<ul> <li>When using the A6TEL as a converter, refer to the GX Developer Operating Manual.</li> </ul>			
PLC side I/F	Choose the PLC series of the PLC to be connected with GX RemoteService-I.			
	PLC side I/F Detailed setting of PLC module			
	PLC mode ACPU			
	Cancel			
	via AGTEL QGTEL (A mode) converter mode			
Other station				
Other station	No specification			
	Other station (Single network)			
	It indicates a system which is configured by a single network and a multilevel system, e.g., only			
	MELSECNET/10 or only Ethernet (Since Ethernet is regarded as the MELSECNET/10 specify			
	Single network for an MELSECNET/10 and Ethernet mixed system.)			
	If a time-out or other error occurs in communications with the PLC CPU, set a longer			
	Until the error appears, during execution is displayed in Monitor status			
	The longest time until the error appears can be found by the following expression			
	(Time specified for communications time check) $\times$ 3 $\times$ (Count specified for the number of retries + 1)			
	For example, when the communications time check is specified as 30 seconds and the number of			
	retries as 0 times, the resultant time is (30 seconds) $\times$ 3 $\times$ (0 + 1) = 90 seconds, and the error			
	appears after a maximum of 90 seconds have elapsed.			
	Choose No specification when specifying the own station.			
	When power-off, hardware reset or the like of the PLC CPU is performed during ladder monitor, it			
	will take time until a communications error appears.			
Network route	Choose the network type, network No., station number and first I/O No. to be accessed.			
	The setting items depend on the network type that has been set.			
Multiple PLC	Specify when the access target is in a multiple PLC system.			
Setting				

Item	Description		
Connection channel	You can set the connection target while looking at the Connection channel	list.	
list	As clicking the [OK] button automatically sets the connection channel on th	e Connection Setup	
	screen, settings can be made easily if a complicated system is configured. Set the network		
	number, station number and others as desired according to the access target.		
	vertice and the second		
	Clicking the [OK] button automatically sets the connection path (area enclosed by a circle) on the		
	Connection setup screen.		
	About display changing		
	Convenient use of display selected routes		
	Specifying the PC side I/F and PLC side I/F and selecting the display selection	ted routes on the	
	Connection setup screen displays only the paths within the accessible range	ges in the other station,	
	network communication path and mixed network communication path.		
	A system configuration list of different series can also be displayed.		
	Request Source Server (Personal Computer) Connected PLC	Access Target	
	Server	Q Series	
	(personal computer)	QnA Series	
		A Series	
	22 Serial port       Access MNET/10/00 other station via DLC module/COCPU-01         Image: Comparison of the station via DLC module/COCPU-02		
PLC direct coupled setting	Useful for changing Other station to Host.		
Connection test	Tests whether normal access can be made to the access target PLC CPU set on the Connection setup screen. When normal access can be made, the type of the access target PLC CPU appears in the CPU		
	type display field.		
System image	Illustrates the set connection target path.		
Line connection	Cannot be set.		
(Q/A6TEL, C24)			



Screen setting for MELSECNET/10 and Ethernet combined system (Single network)

In an MELSECNET/10 and Ethernet mixed system configuration, specify Single network to access the other station. (Since Ethernet is equivalent to the

MELSECNET/10)

An example of the Connection Setup setting screen is provided for the following system configuration (Q/QnA only).



### POINT

When connecting the PLC to be accessed to the server (personal computer) via Ethernet, CC-Link or serial communication, refer to GX Developer Operating Manual.

## 6.3.6 Device range setting

This section explains the name, points and others of the device to be read first from the PLC CPU.

#### Screen examples

When Qn(H)CPU is selected

Specifies th	e data range moni	tored first in the client side.
Device	XO	_
Points	16 points	<b>•</b>
Program	MAIN	_
Becor	me necessary in c	ase of monitoring TC.
Target me	mory	
QCPU(Q r	node) Program	memory/Device memory 🔻
	PLC RAN	d/Device memory
QnACPU Comment d	PLC RAN	MDevice memory
QnACPU Comment d - Comment	PLC RAN	M/Device mernory
Comment d Comment d Comment	PLC RAN	MDevice memory
CmACPU Comment d - Comment C Comm	PLC RAN	MDevice memory

When ACPU is selected (AnU, AnUS, AnUSHCPU)

Device	X0			
Points	16 points	16 points		
Program	MAIN			
Become necessary in case of monitoring TC.				
QCPU(Q mode) Program memory/Device memory				
QnAGPU PLC RAM/Device memory				
	Jata COMMEN	Т		
Commen	t type			
O Com		C Extension comment2		
Comment1/Comment2     C Extension comment3				
C Extension comment1 C Extension comment4				

Item	Description			
Device	Set the device + device No.			
Points	Set any of 1, 16, 32, 64, 128 and 256 points.			
Program	Set the program name when monitoring the T/C.			
Target memory	When you have set the Qn(H)CPU or QnACPU, make selection from the following memories. You cannot make setting when the set PLC Series is other than the Qn(H)CPU or QnACPU.			
	Qn(H)CPU	QnACPU		
	Program memory/Device memory	PLC RAM/Device memory		
	Memory card (RAM)	IC Card A (RAM)		
	Memory card (ROM)	IC Card A (ROM)		
	Standard RAM IC Card B (RAM)			
	Standard ROM	IC Card B (ROM)		
Comment data	Set the comment data name to be displayed or searched for by the personal computer.			
	Fixed to "COMMENT" when the set PLC Series is other than the Qn(H)CPU or QnACPU.			
Comment type	Set the comment data name to be displayed or	searched for by the personal computer.		
	You need not make setting when the Qn(H)CPI	J or QnACPU has been set as the PLC Series.		

Setting tags allows you to display different devices you want to read (up to 10 device types) together on the personal computer.



## 6 SETTING THE GX RemoteService-I FUNCTIONS

Item	Description
Tag name	Set within 1 to 16 characters.
Index	Set within 0 to 64 characters.
Tag setting	Shows the tag setting status.
"Edit" button	Tag detailed setting 1/10       X         Tag name       Line status         Index       Line A         Index       Production quantity         Index       Temperature         Index       Index         Index       Vertex         Index       Vertex
	Item Description
	Tag name Set within 1 to 64 characters.
	Index Set within 0 to 64 characters.
	Tag setting         Check this item to enable the tag function.
	Device name Set the device + device No.
	Display Set decimal or hexadecimal. You cannot set a bit device.
	Display nameSet the device name that will be displayed on the personal computer. Set within 1 to 32 characters.
	Program When you set the T/C as the device name, set the program name to be referred to.
"Clear" button	Used to clear the selected tag.
"All clear" button	Used to clear all tags.

# 6.3.8 Automatic operation setting

When performing automatic operation, set an e-mail sending trigger condition, an e-mail message, etc.

Auto drive	setting		x
Monitor tir	ne interval 30 Sec		
No.	Index	Watch setting	
1.	Plant A Line A	Watch	
2.	Plant A Line B	Watch	
3.		No setting	
4.		No setting	
5.		No setting	
6.		No setting	
7.		No setting	
8.		No setting	
9.		No setting	
10.		No setting	
Priority I	evel will be high when value of the number is low.		
	Edit Clear	All clear	Close

Item	Description				
Monitor time interval	Set within the range 30 to 9999 seconds.				
Index	Set within 0 to 64 characters.				
Watch setting	Shows the monitor setting status.				
"Edit" button	Advanced auto drive settings 1/10       X         Watch       Index       Plant A Line A         Trigger condition       Image: condition       Image: condition         Word device       Image: condition       Image: condition         Bit device       Value       Image: condition         Subject of message       Fault occurred in robot       Image: condition         Body of message       Fault occurred in robot       Image: condition         Image: condition       Image: condition       Image: condition         Image				

Item	Description				
"Edit" button					
	Item Description				
	Watch	Check this item to	perform monitoring.		
	Index	Set within 1 to 64	characters.		
	Trigger condition	Set the trigger cor	ndition for bit or word device.		
		The following are	the condition enabled examples when the		
		present value of L	J33 IS 100.		
		Display	Description		
		=	Condition is enabled when the value is equal to 100.		
		<	Condition is enabled when the value is less than 99.		
		>	Condition is enabled when the value is more than 101.		
		<=	Condition is enabled when the value is not more than 100.		
		>=	Condition is enabled when the value is not less than 100.		
		<>	Condition is enabled when the value is other than 100.		
	Subject of message	Refer to Section 6	5.3.2.		
	Body of message	-			
	"Transmission target setting" button				
	Used to delete the selected continuous monitoring setting.				
"All clear" button	Used to delete all continuous monitoring settings.				

#### POINT

- If the device set for the trigger condition has already met its condition before a start of automatic operation, e-mail is sent immediately after automatic operation is started.
- E-mail is sent when the status of the device set for the trigger condition turns from OFF to ON.

Note that once e-mail is sent, next e-mail will not be sent until the device status changes from ON to OFF to ON.

# 6.3.9 Device display format setting

Set the formats in which the devices read on the personal computer will be displayed.

Dev. disp. setting			X
Bit device display format			
Character display (ON:X_OFF:O)			
O Number display (ON:1 OFF:0)			
Monitor screen display format			
Do not set		•	
Setting completion	Cancel		

Item	Description
Bit device display	Choose the bit device display format.
format	
Monitor screen display	Choose the combination of the character color and background color.
format	

# 7. ABOUT THE PERSONAL COMPUTER

This chapter explains the setting items and display methods on the personal computer.

## 7.1 List of Personal Computer Setting Items

Making access to the address added to e-mail displays the following screen.



No.	Description
1)	Set the PLC series, PC side I/F, PLC side I/F and other station.
2)	Set the time when the line is disconnected from the personal computer.
3)	Shows the connection form between the server (personal computer) and PLC.
4)	Set the details of the port or board used by the server (personal computer).
5)	Set the details of the module used on the PLC side. (The screen on the left is an example of a serial communication screen.)
6)	Set within the range 1 to 9999. Set within the range 0 to 5.
<ul> <li>Set the head I/O No., station number and network No. of the module.</li> <li>The setting items change depending on the module selected for the PLC side I/F.</li> </ul>	
8)	Specify the PLC No. to be accessed when a multi PLC system is configured.
9)	Choose the display format on the personal computer.
10)	Set the device to be read and its number of points.
11)	Choose the number of read points of the device to be diagnosed.
12)	Choose the program to be diagnosed.
13)	Choose the memory to be accessed.
14)	Choose the comment data to be diagnosed.
15)	Set the keyword for device comment search. (Within 32 characters)
16)	Execution makes access to the PLC.
17)	Choose when monitoring the tag.

# 7.2 Providing Tag Display

(	Production A fau		
	Production number	0	DO
	Various statuses	0	D1
	Manual operation flag	0	M1
1) {	Watch timer(Contact)	0	TO
	Watch timer(Coil)	0	TO
	Watch timer(Setting value)		TO
	Watch timer(Current value)	0	TO
1			

\_\_\_\_\_

#### This section explains the tag display screen.



4) { <u>Device monitor</u>

No.	Description
1)	When TC is displayed, (Contact), (Coil), (Set value) or (Present value) is added to its display name.
2)	Select the tag you want to display from the tag list.
3)	Monitors a list of devices chosen by tag selection. Note that the statuses of the devices read to the personal computer are those when start is clicked. Note: The read devices do not vary in real time.
4)	Moves to the device monitor page.

## 7.3 Monitoring the Devices

This section explains the device display formats.

The following gives the examples of the Web browser and personal computer displays provided when the remote device monitor function is used.

#### (a) Word multi-point decimal

CPU:Q02(H) D0-D15

0 010								
Device	+0	+1	+2	+3	+4	+5	+6	+7
DO	0	0	0	0	0	0	0	0
D8	0	0	0	0	0	0	0	0

#### (b) Word multi-point hexadecimal

CPU:Q02(H) D0-D15

ŝ	00 013								
	Device	+0	+1	+2	+3	+4	+5	+6	+7
	DO	0000	0000	0000	0000	0000	0000	0000	0000
	D8	0000	0000	0000	0000	0000	0000	0000	0000

## (c) Bit multi-point

CPU:Q02(H)

X0-XF

Device	FEDC	BA98	7654	3210
X0	0000	0000	0000	0000

## (d) Commented decimal

CPU:Q02(H)

D0-D15		
Device	Current value	Comment
DO	0	A line production conditions
D1	0	B line production conditions
D2	0	C line production conditions
D3	0	D line production conditions
D4	0	
D5	0	
D6	0	
D7	0	
D8	0	
D9	0	
D10	0	
D11	0	
D12	0	
D13	0	
D14	0	
D15	0	

# (e) Commented hexadecimal

D0-D15		
Device	Current value	Comment
DO	0000	A line production conditions
D1	0000	B line production conditions
D2	0000	C line production conditions
D3	0000	D line production conditions
D4	0000	
D5	0000	
D6	0000	
D7	0000	
D8	0000	
D9	0000	
D10	0000	
D11	0000	
D12	0000	
D13	0000	
D14	0000	
D15	0000	

# (f) Commented binary

D0-D15					
Device	FEDC	BA98	7654	3210	Comment
DO	0000	0000	0000	0000	A line production conditions
D1	0000	0000	0000	0000	B line production conditions
D2	0000	0000	0000	0000	C line production conditions
D3	0000	0000	0000	0000	D line production conditions
D4	0000	0000	0000	0000	
D5	0000	0000	0000	0000	
D6	0000	0000	0000	0000	
D7	0000	0000	0000	0000	
D8	0000	0000	0000	0000	
D9	0000	0000	0000	0000	
D10	0000	0000	0000	0000	
D11	0000	0000	0000	0000	
D12	0000	0000	0000	0000	
D13	0000	0000	0000	0000	
D14	0000	0000	0000	0000	
D15	0000	0000	0000	0000	

# 7.4 Setting the Server (Personal Computer) Line Connection

This section explains the server (personal computer) side line disconnection timer setting and line disconnection on the personal computer.

Server Side Circuit Settings Time to disconnect the circuit 00:06:32

Time to disconnect the circuit Time (0-99) Minutes 30 (0-59) OK

Return to target connection specification

Server side dialup disconnect execution

It cannot connect if server side dial up diconnect is executed. Please make sure before executing it.

Item	Description
Server Side Circuit Settings	Set the time until the line is disconnected.
Time to disconnect the	When making this setting, preset "Enable disconnection of dial-up connection on client side"
circuit	on the dial-up setting screen.
Server side dial-up	Disconnects the dial-up connection.
disconnect execution	

# 8. GETTING STARTED WITH GX RemoteService-I (Web function)

This chapter describes the setting of GX RemoteService-I functions on the server (personal computer) under the conditions presented in Section 8.1 and the confirmation of tag displays and device displays on the personal computer.

Section 8.1 explains the setting of GX RemoteService-I. Section 8.2 explains the varying of the monitor devices and the arrival of e-mail. Section 8.3 explains the operation procedure of looking at the server (personal computer) after the arrival of e-mail.

## 8.1 Setting GX RemoteService-I to the Server (Personal Computer)

#### Outline of setting example

- Setting of e-mail sending conditions When the trigger condition is enabled, make settings to send e-mail to two persons.
  - When M1000 turns on, Mr. A is informed of a "robot" fault.
  - When M1001 turns on, Mr. B is informed of a "press" fault.

#### (2) Setting of devices read by the personal computer

- Make tag settings (three tags) for confirming the system status.
- Make setting to read the annunciator (F) first for checking the fault status of the system.

Setting item		Setting		
Operating	g mode	Automatic operation mode		
Security s	setting	Must not be set.		
	Send mail (SMTP) server			
⊑ mail	Receive mail (POP3) server			
E-mail setting	Account name	Refer to "Description for Use" or like sent from the provider and make settings.		
Setting	Password			
	E-mail address	Setting         Automatic operation mode         Must not be set.         r         Refer to "Description for Use" or like sent from the provider and make set         Connection type: LAN connection         In IP address modification by line reconnection, notify of a mail automatica         Unchecked.         QCPU (Q mode), Qn (H)CPU         PLC direct connection         F0         Note: Set the F0 comment on GX Developer and write it to the PLC CPU         advance.         16 points         MAIN         Program memory/device memory         COMMENT		
Network setting		Connection type: LAN connection In IP address modification by line reconnection, notify of a mail automatically: Unchecked.		
PLC type		QCPU (Q mode), Qn (H)CPU		
Transfer	setup	PLC direct connection		
Device	Device	F0 Note: Set the F0 comment on GX Developer and write it to the PLC CPU in advance.		
range	Points	16 points		
setting	Program	MAIN		
	Target memory	Program memory/device memory		
	Comment data	COMMENT		

#### Conditions

Setting item		Setting					
			Tag name	Device name	Display format	Display name	
			Dahat	M100	_	Robot controller fault	
			Robot	M101		Robot arm fault	
			(Tag T)	M102		Servo amplifier fault	
Tog ootting			Duran	X100		Thermal fault	
rag setting			Press	D100	Decimal	Coolant pressure low	
			(1ag 2)	X130	_	Die fault	
			Transfor	M105		Rotary pump fault	
			Tag nameDevice nameDisplay formatDisplay nRobotM100Robot control(Tag 1)M101Robot arm(Tag 1)M102Servo ampliPressD100DecimalCoolant press(Tag 2)X130Die fauTransferX150Rotary pur(Tag 3)D110DecimalTransfer notPlant A Line AStocker cylinonM1000 turns onssageFault occurred in robot.addressMr. A aaa@***.co.jpPlant A Line BonM1001 turns onssageFault occurred in the line A robot.Check the systemaddressMr. A aaa@***.co.jpPlant A Line BonM1001 turns onssageFault occurred in the line B press.check the systemaddressMr. B bbb@***.ne.jpCheck the system.check the system.check the system.addressMr. B bbb@***.ne.jpCharacter display (ON: × OFF: $\bigcirc$ )	Stocker cylinder fault			
			(Tag 5)	D110	Decimal	Transfer motor speed	
		Index	Plant A Line	A			
Index Trigger condition 1	M1000 turns on						
	1	Subject of message	Fault occurred in robot.				
	1	Body of message	A fault occurred in the line A robot.				
			Check the system.				
Auto drive setting		Trans. e-mail address	Mr. A aaa@	2***.co.jp			
Auto unive setting	Index	Plant A Line B					
		Trigger condition	M1001 turns	s on			
	2	Subject of message	Fault occurr	ed in press			
	2	Rody of message	A fault occu	fault occurred in the line B press.			
		body of message	Check the s	ystem.			
		Trans.e-mail address	Mr. B bbb@	;***.ne.jp			
Dev. disp. setting			Character d	isplay (ON: $ imes$ OF	F: ()		

Conceptual diagram of system





(To the next page)

- 1) Start GX RemoteService-I.
- 2) Choose the Auto run mode and click the Setting wizard button.

This screen is for the security setting to prevent an illegal access.
 If this setting is not necessary, click the <u>Next></u> button.

4) Set e-mail to notify the personal computer. Click the E-mail setting button.

nail setting			
E-mail common information			Transmission target setting
Send mail (SMTP) server	jbsmine.pcn.co.jp	Mail Trans. e-mail addre:	fication during manual drive ss Remarks
Account name	vriu63	1  2	
Password	*****	3	
E-mail address	gx_remote@jbsmine	5	
		7	
Subject of message		9	
boby of message	*		
		13	
		15	
		17	
	7	19	
		20	
Use mail send of GX Remo	deBervice-I		Setting completion Cancel
MFI SOFT series GY Pe	moteService-1 setti	ng wizard 3/9	
HELSOFT SERES GX RE	mote service i setti	ng wizaru 3/ 5	
Netw	ork setting		
	Execute the followin	ng about network attachment.	
Security setting	-Selection of dial-u	p connection of LAN connection	on
F as all a atting a	-belection of a pole	i i alli i alli alli alli alli alli all	
E-mail setting Network setting	<in case="" dial-up<br="" of="">-Selection of dial-up</in>	connection>	
E-mail setting Network setting PLC type selection	<in case="" dial-up<br="" of="">-Selection of dial-u -Selection of redial</in>	connection> p connection name option and automatic line dis	connecting method
E-mail setting Network setting PLC type selection Specify target	<in case="" dial-up<br="" of="">-Selection of dial-u -Selection of redial -Authorization of dia <in case="" co<="" lan="" of="" td=""><td>connection&gt; p connection name option and automatic line dis al-up disconnecting by a client nnection&gt;</td><td>connecting method I side Enable/Disable</td></in></in>	connection> p connection name option and automatic line dis al-up disconnecting by a client nnection>	connecting method I side Enable/Disable
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- Set the e-mail common information. Set the following data of the provider with whom you have contracted.
  - Account name
  - Receive mail (POP3) server Password
  - E-mail address

• Send mail (STMP) server

After the setting is finished, click the Setting completion button.

## REMARK

For the settings, refer to "Description for Use" or like sent from the provider.

6) Set the details of Network.

Click the Network setting button.

7) Set Connection type/HTTP port No. for MELSOFT connection/ HTTP port No. for Web facility.

Select "LAN connection" this time, and click the Setting completion button.

The operations after the Advanced button is clicked are explained on the next page.

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#### (From the previous page)

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• In the case where LAN connection is selected and the Advanced button is clicked.



• In the case where Dial-up connection is selected and the Advanced button is clicked.

Advanced Dial-up settings	
Dial-up cnt. name: OCN	
Advanced Dial-up settings	
Count: 0 Times Interval: 30 Sec	
Redial (reconnection) in line disconnecting, and a mail notifies you of changed IP	
✓ Access timer watch         (Disconnet the Dial-up connection in case of no access for certain time.)         ○ = Hour       30 = Hour         ✓ Dial-up disconnection timer         (Disconnet the Dial-up connection in certain time.)         ○ = Hour       30 = Hour         ○ = Hour       30 = Hour         ■ Hour       30 = Hour         ■ Enable Dial-up disconnection timer setting on client side.	
Enable disconnection of Dial-up connection on client side.	
Setting completion	Cancel



(To the next page)

Select an IP acquisition method.

After the settings are completed, click the Setting completion button.

This returns to "Network setting" screen.

Set the dial-up connection target and line disconnection method.

After the settings are completed, click the Setting completion button.

This returns to "Network setting" screen.



Be sure to make the dial-up settings before making the advanced dial-up settings. Without the settings, the following screen appears and the dial-up setting screen cannot be opened.

MELSOFT series GX RemoteService-I
Dial-up setting is not set.



 Connect the server (personal computer) and PLC CPU.
 Prepare a program that can turn on M1000 and

Prepare a program that can turn on M1000 and M1001 beforehand for the PLC CPU.

9) Set the PLC series and PLC type of the PLC CPU to be accessed first by the personal computer.Click the PLC type selection button.

PLC type selection	n		×
Specify the PLC at first in the cli	series of the PLC type	to be monitored	
			1
PLC series		Setting completion	
jacro-a		Cancel	
PLC type			
Qn(H)	•		
	Ļ		
MELSOFT series GX Re	moteService-I setting wizard 5/9		×
Speci	ify target		
Security setting	Sets connection route of the PLC	selected in PLC type selection.	
E-mail setting Network setting			
PLC type selection PSpecify target			
Tag setting			
Dev. disp. setting	Serial port PLC module connection	on	
		Specify target	
Clie	nt Internet Server	Transfer PLC setup	
		LggmJ	
		<back next=""> Cancel</back>	
	1		
Connection Setup	+		x
PC side I/F			
USB b	Transmission speed 115.2Kbps	board board net I	
PLC side I/F	T/10H) MNET(II) OCLink Ethemet	1 64 Bus	
module m	odule module module module	PLC mode QCPU(Qmode)	
			_
Other station No specification	Other station(Single network)	Connection channel list PLC direct coupled setting	
Time out (Sec.)	10 Retry times 0	Connection test	
route C24 NET	/10(H) NET(II) CC-Link Ethernet	Line connection (0/A6TEL.024)	]
- Multiple CPU set	ing	ОК	
	A No Choice made PLC type PLC type PLC type PLC type PLC No.	Close	
	+		
MELSOFT series GX Re	moteService-I setting wizard 6/9		×
Devid	e range setting		
Security setting	Sets device etc. to be monitored a Implement the following setting.	t first in the client side.	
E-mail setting Network setting	-Device setting -Device points -Program name		
PLC type selection Specify target	-Target memory -Comment data name -Comment type		
►Device range setting Tag setting			
Auto drive setting Dev. disp. setting	X0 16 points (X0-XF)		
		Device range setting	
Clie	nt Internet Server	Transfer PLC setup	
		Deal.	
		<pre></pre>	

↓ (To the next page)

- 10) Choose the PLC series and PLC type of the PLC CPU to be connected to the server (personal computer). After the setting is finished, click the Setting completion button.
- 11) Set the connection path from the server (personal computer) to the PLC CPU.Click the Specify target button.

12) Set the path for connection of the server (personal computer) and PLC CPU.After the setting is finished, click the Connection test button to start a communication test.

When normal communication is made, the CPU type appears in the CPU Type display field.

After the setting is finished, click the OK button.

13) Set the device, number of points, and program name to be read first when the PLC CPU is accessed by the personal computer.

Click the Device range setting button.
(From	the	previous	page)

Device range setting	
Specifies the data range monitored first in the client side.	
Device  +0	
Points 16 points	
Program MAIN	
Become necessary in case of monitoring TC.	
QCPU(Q mode) Program memory/Device memory	
Comment data COMMENT	
Comment type	
C Comment1 C Extension comment2	
Comment2 C Extension comment3	
Setting completion Cancel	
₩	
MEL50FT series GX RemoteService-I setting wizard 7/9	
Tag setting	
Implement the following settings to treat the device to be monitored in the client	
Security setting side as tag. -Tag name	
E-mail setting -Tag index Network setting -Enable/Disable tag setting	
PLC type selection -Device display name -Device display format	
Device range setting	
Auto drive setting	
Dev. disp. setting Setting count: 0 Effective count: 0	
Tag setting	
Client Internet Server Transfer PLC	
<back cancel="" cancel<="" th=""><th></th></back>	
Tag setting	Þ
Tax acting	
rag semng	
Number Tag name Index Tag setting 1. No setting	
2. No setting 3. No setting	
4. No setting	
6. No setting	
8. No setting	
9. No setting 10. No setting	
Edit Clear All clear Close	
<u>↓</u>	
Tag detailed setting 1/10	
Tag detailed setting 1/10	
Tag detailed setting 1/10	
Tag detailed setting 1/10 Tag name Robot	D
Tag detailed setting 1/10 Tag name Robot Index F Enable tag settings	D
Tag detailed setting 1/10 Tag name Robot Index P Enable tag settings Display name Program	
Tag detailed setting 1/10  Tag name Robot Index  ✓ Enable tag settings  ✓ Enable tag settings  ✓ Display name Program  1 M100 ★ Robot controller fault  Abobt am fault	Þ
Tag detailed setting 1/10 Tag name Robot Index  ✓ Enable tag settings  ✓ Enable tag settings  ✓ Robot controller fault  ✓ MIO1 ✓ Robot arm fault  ✓ MIO2 ✓ Servo amplifier fault	P
Tag detailed setting 1/10       Tag name       Robot       Index       Index       Index       Image: Index       <	
Tag detailed setting 1/10 Tag name Robot Index	
Tag detailed satting 1/10 Tag name Robot Index	
Tae detailed setting 1/10 Tag name Robot Index	D
Tag detailed setting 1/10 Tag name Robot Index	

14) Set the device name (F0), number of points (16 points), and program name (MAIN).
Refer to Section 6.3.6 for detailed explanation of the target memory and comment.
After the setting is finished, click the
Setting completion button.

15) Make setting to read different types of devices (up to 10 types) together to the personal computer.

Click the Tag setting button.

16) Choose No. 1 and click the Edit button.

Out of the three tags to be set, Tag 1 will only be explained here.

17) Set the tag name, device names and display names.
After the setting is finished, click the Setting completion button.
(Set Tag 2 and Tag 3 in the same procedure.)

MELSOFT

(From the previous page)		
Tag setting       Tag setting       Number     Tag name       1     Robot       2     No setting       3     No setting       5     No setting       6     No setting       7     No setting       9     No setting       10     No setting       Edit     Clear	18)	When editing Tag 2 or Tag 3, move the cursor to No. 2 or 3 and click the Edit button. To end, click the Close button.
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	19)	Make setting to monitor the system automatically. Click the Auto drive setting button.
Nuto drive setting     X       Monitor time interval     30     Sec       No     Index     Watch setting       2.     No setting       3.     No setting       4.     No setting       5.     No setting       6.     No setting       7.     No setting       9.     No setting       10.     No setting       11.     Clear       All clear     Close	20)	Choose No. 1 and click the Edit button.
Varced and server status 1 / 100       Image: status 1 / 100         Image: wind device       Image: status 2 / 100         Image: wind device <td>21)</td> <td>Set the Watch, Index, Trigger condition (M1000), Subject of message, Body of message. Click the Transmission target setting button.</td>	21)	Set the Watch, Index, Trigger condition (M1000), Subject of message, Body of message. Click the Transmission target setting button.
↓ (To the next page)		

#### (From the previous page) Ť 22) Set the Trans. e-mail address. Vatch1 Watch2 Watch3 Watch4 Watch5 Setting Mr.A at watch 1. aaa@\*\*\* co.jp bbb@\*\*\*.co.jp 10 After the setting is finished, click the Setting completion button. Paste Delete All clear Setting completion Cancel Ť 23) Click the Setting completion button. Watch Index Plant A Line A Transm Trigger cor M Value Dec V Mail ss Remarks C Word device I Bit device ect of message Fault occurred in robo Body of message A fault occurred in f Check the system. \* 14 Setting co Cancel ¥ 24) Move the cursor to No. 2 and click the Edit button. Auto drive s × Monitor time interval 30 Sec No Watch setting 1 Watch Plont & Line No setting No setting 23 No setting 4 No setting No setting No setting No setting 5 6 7 8 9 No setting No setting 10 Priority level will be high when value of the number is low Edit... Clear All clear Close ŧ Advanced auto drive settings 2/10 25) Set the Watch, Index, Trigger condition (M1001), Watch Index Plant A Line B Transmission target setting... Subject of message, Body of message. Trigger condition C Word device M ¥ 1001 O Bit device Value Remarks Enable 2 under "Mail". • Click the Transmission target setting button. ct of message Fault occurred in pres A fault occurred in the line B pre Check the system Setting completion Cancel (To the next page)

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### (From the previous page)



26) You can check the combinations for sending e-mail on the left screen.When the check is finished, click theSetting completion button.

27) Set the display format of the screen to be displayed on the personal computer.

Click the Dev. disp. setting button.



(To the next page)

28) Choose "Character display (ON: × OFF: ○)" and click the Setting completion button.

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### (From the previous page)



(Completion)

### 8.2 Varying of Monitor Devices and Arrival of E-mail

Using the device test function of GX Developer, vary the monitor devices set on GX RemoteService-I and make sure that e-mail arrives.

Preinstall GX Developer into the server (personal computer).

(Start)



 Start GX Developer installed in the server (personal computer).
 Read the PLC program from [Online] - [Read from PLC].

For program reading operation, refer to the GX Developer Operating Manual.



 After stating program monitoring from GX Developer, choose [Online] - [Debug] - [Device test] and set M1000 for "ON" and M1001 for "ON" on the left screen.

When M1000 is turned "ON", e-mail is sent to Mr. A. When M1001 is turned "ON", e-mail is sent to Mr. B.

For GX Developer operation, refer to the GX Developer Operating Manual.

e-mail is sent to Mr. A when M1000 turns on. Mr. A e-mail is sent to Mr. B when M1001 turns on. Mr. B

↓ (Completion)

3) E-mail is sent from GX RemoteService-I and notifies the personal computers.

### 8.3 Receiving E-mail and Looking at Devices on Personal Computer

This section explains how to perform operation to check the e-mail sent from GX RemoteService-I and check the tag and device displays.

### 8.3.1 Until looking at tag

#### Outline of operation

The following operation example explains how to choose Tag 2 (press) and check the operating status of the system after receipt of e-mail.

(Start)



 The e-mail sent from GX RemoteService-I is received. Check the received e-mail. After confirming the message, click the URL of "Tag reference".



(To the next page)

2) The left screen appears. Choose [Tag select].

### (From the previous page)



3) As a list of tag names appears, choose "Press".

4) Choose Start.

🗿 Nav	igatior	n Canc	eled -	Microsoft	Internet	Explorer					-   □   ×
Eile	<u>E</u> dit	⊻iew	<u>G</u> o	Favorites	Help						<b>1</b>
Bac	* •	=) Forwe	rd 🗸	Stop	(1) Refresh	Home	Q Search	Favorites	() History	ي Channels	Fullscre
Addres	\$									•	Links
Taga	alaat										-
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¢ø]Don	e						🗿 Internet z	one			•

<u>E</u> ile <u>E</u> dit ⊻iew <u>G</u> o F <u>a</u> vorit	es <u>H</u> elp					10
Here Hand Hand	C) Refresh	Home Search	* Favorites	() History	S Channels	Fullscre
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						-
Transfer						
Thermal fault	0	×100				
Coolant pressure low	0	D100				
Die fault	0	×130				
Tag select						4
Transfer 💌						- 1
Chant						- 1
otart						- 1
						- 1
Device monitor						
\$1 Dono		Internet 2	one			_

¥



5) The devices set for the press are read.

## 8.3.2 Until looking at devices

### Outline of operation

Following the operation in Section 8.3.1, monitor the device (F) using "Device reference" to check the details of the faulty status. The following operation example explains how to change the monitored device to the data register (D).



1) The e-mail sent from GX RemoteService-I is received. Check the received e-mail. After confirming the message, click the URL of "Device reference".

2) Scroll the screen down.

3) Choose Start

Mavigation Canceled - Microsoft Internet Explo - 🗆 🗵 Ele Edit View Go Favorites Help E)  $\rightarrow$  . Stop 44 . Refres 0 Links \* Points II Point I is possible to select only in word device. Program name MAIN Set only in case of TC monitor Target memory Program memory/Device memory Comment data name COMMENT Device comment search Start Tag monitor Web Browser Type : Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt) @ Done A Internet zone Ť

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- (To the next page)
- 8 15

@ Done

### (From the previous page)



 16 points, starting from F0, in the MAIN program where the device range has been set on the server (personal computer) are read.

- 🗆 🗵 A Navigatio eled - Microsoft Internet Expl n Can Ð <u>File</u> <u>E</u>dit ⊻iew <u>G</u>o F<u>a</u>v Help Refr Stop 습 Home 0 . \* 3 Fullscre Links Address F0-F15 4 7 4 Current value Comment Device E 1 F2 © Bit © Comment Dec © Comment Hex C Comment Rin Device range Device F0 Tag monitor Ø Done C Internet zone
- 5) After confirming the contents of F0, change the device data to D100.





6) Change F0 to D100.

### (From the previous page)



7) Choose Start.

Navigation Canceled - Microsoft Internet Explor \_ 🗆 🗵 <u>Eile E</u>dit ⊻iew <u>G</u>o F<u>a</u>vorites <u>H</u>elp Ð Refre Hore (3) Histor Stop 4 ⇒ Q Search <u>ک</u> Q • • Fullscre Ch Address ✓ Links D100-D115 Current value Device 500 Pressuer 60 Temperature D101 D102 30 Water lavel 
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 Point1 is possible to select only in word device.
 Program name MAIN

 Set only in case of TC monitor
 Target memory

 Program memory/Device memory
 Comment data name COMMENT
 @ Done 🖉 Internet zone ŧ

(Completion)

8) The D100 value can be read.

## 9. MELSOFT CONNECTION FUNCTION

The MELSOFT connection function is to access the PLC CPU via Internet/Intranet using a software package (MELSOFT) installed in the client side.

## 9.1 Using the MELSOFT connection function

### 9.1.1 When the server is personal computer/PC CPU module

The following explains the procedure to access the PLC CPU through a personal computer/PC CPU module.

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	- D× 局つ	Menu registration (Edit .	
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[			
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HStart 3 # \$ \$ 10mm	ed - Part Mis User vetting name 🐑 PELSOFT series Gr Devel	Desktop * 🖉 2:43 PM	
	GX Explorer Version 2	)	
		Internet Intranet	
GX Ex	xplorer Version 2		GX RemoteService-I Version 2
Client (pers	sonal computer in which er Version 2 is installed)		Server (personal computer in which GX RemoteService-I Version 2 is installed)

• Remote access operation procedure



\*1: The following items must be set using GX RemoteService-I installed in the server, in order to access the PLC CPU from the client using the MELSOFT connection function.

Cotting itom	Operation mode		Description			
Setting tiern	Auto	Manual	Description			
Security setting	Δ	Δ	Settings for client authentication. With the settings, the server identifies a client when the client connects to the server.			
E-mail setting	0	Δ	Settings for using the GX RemoteService-I mail function. Not required when using Microsoft <sup>®</sup> Outlook Express or other mail softwar manual operation mode.			
Network setting	0	0	Settings for network connection method of the server.			
PLC type selection	0	0	Settings for PLC series and PLC type of the PLC CPU that a client access firs			
Specify target	0	0	Settings for connection method between the server and PLC CPU.			
Auto drive setting	0		Settings for e-mail transmission triggers and e-mail message. Required when using auto operation mode.			
	$O$ : Necessary $\triangle$ : Might be necessary —: Unnecessary.					

\*2: Manual mode: The operations are performed by the operator. (Refer to Section 6.2) Auto drive mode: The operations are automatically performed when trigger conditions (set in the auto drive setting) are met.

\*3: For auto drive mode, make the e-mail setting and auto drive setting. With these settings, the mail including the server IP address and HTTP port No. for MELSOFT connection will be automatically sent to the client when trigger conditions (set in the auto drive setting) are met.

### 9.1.2 When the server is Web server module

The following explains the procedure to access the PLC CPU through the Web server module. In the explanation, GX Explorer Version 2 is taken as an example. When using the Web server module as the server, set a compact flash card in which GX RemoteService-I has been installed into the Web server module.

#### • Remote access operation procedure



\*1: Make the account setting as necessary.

\*2: If the e-mail transmission is not available, confirm the Network connection of the server module by checking the buffer memory using GX Developer. For details, refer to the GX Developer Version 8 operating manual.

(Start) ↓

### 9.2 Application example of the MELSOFT connection function

The following explains how to connect to the server based on the e-mail sent from the server; to make a remote access to the PLC CPU through the server; to complete the communication with the PLC CPU.

In the explanation, GX Explorer Version 2 is taken as an example.





- (1) This screen is for the security setting to prevent an illegal access.
  If this setting is not necessary, click button.
  The e-mail sent from the server provides the server information (IP address and HTTP port No. for MELSOFT connection).
  IP address follows "http:// ".
  (For the left message, it corresponds to "0.0.0.0")
- (2) Start GX Explorer Version 2 from the personal computer (client).
   Select [Object] – [MELSOFT connection] from the menu to display "MELSOFT connection" dialog box.
- (3) Specify the connection target server by setting the host name or the IP address and port number, and click the Connection button.

(From the previous page)

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Connection	<u>.</u>		)	<b> _</b> n	11	Connection Disconnection Close
	MELSOFT connecti	on Finishing (execut	ion]			
Connection target information	C Hostname					
	C IP address Port No.:	0.0. 8080	0.0			
Connection						
type	C LAN connect					Advanced
	C Diardy com	ruith				
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PLC side VF	OM COM 1 Transmiss PLC MNET/10(H) nodule module	on 115.2KBps (NET(I) CC-Lin module moduli	k Ethernet e module		G4 Bu: module	
				PI	.C mode QCPU	I(Qmode)
Other station	9 m				Conne	ection channel list
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Network					8	ystem image
Toule	C24 NET/10(H) 1	IET(II) CC-Link	Ethernet		Line conn	ection (Q/46TEL,C24)
THE REAL PROPERTY IN THE REAL PROPERTY INTERNAL PROPERTY	uttiple CPU setting	PLC	PLC type			0K
	1 2 3 4 No C	noice made	PLC No.			Close
			1			

(To the next page)

(4) If Security setting has been made using GX RemtoeService-I, the left message appears. Enter the preset user name and password and click the OK button.

When the Web server module is used as the server, "Enter Network Password" dialog box appears. For details, refer to the Web server module user's manual.

(5) When the connection is completed, the screen changes as shown left.

(6) Set information from the server to the station targeted for an analysis of network configuration. For details, refer to "Network Configuration Analysis Specification" provided in the GX Explorer Version 2 operating manual.

When the server is Web server module, set "Q Series Bus" in PC side I/F, and "Web Server Unit" in PLC side I/F.





- (From the previous page)
- (7) Set information from the server to the station targeted for an analysis of network configuration. For details, refer to "CONNECTION TARGET SPECIFICATION" provided in the GX Explorer Version 2 operating manual.

When the server is Web server module, items set in PC side I/F and PLC side I/F are the same with the items described in (6).

- (8) A remote access can be made to the target PLC CPU in order to execute each GX Explorer Version 2 function.

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 Connection

 Connection
 Connection

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 Connection
 Connection

 Connection
 Connection

(Completion)

(9) When terminating the remote access communication with the PLC CPU, click the Disconnection button to disconnect the connection to the server.

## **10. TROUBLESHOOTING**

The following is the troubleshooting of the server (personal computer).

Phenomenon	Check	Corrective Action		
	Check that the dial-up network has been installed.	Make sure that the dial-up network exists in the Control Panel.		
	Check that "Dial-up connection name" of the dial-up network has been set.	Make sure that the connection target has been registered within the dial-up network in the Control Panel.		
Connection cannot be made from the dial-up network to	Check that the modem driver has been installed.	Make sure that the modem used for the modem properties in the Control Panel is displayed.		
the provider.	The modem does not dial.	Check by clicking the icon of the connection target within the dial-up network in the Control Panel.		
	The modem dials but connection cannot be made to the host.	Check by clicking the icon of the connection target within the dial-up network in the Control Panel.		
	The line was connected but you cannot log in.	Check by clicking the icon of the connection target within the dial-up network in the Control Panel.		
Dial-up connection is instable. (Connection cannot be made sometimes.)	Connection is made from a place of weak radio wave with a mobile, or a local line is used.	For dial-up connection, enter ", (pause)" before the phone number.		
	Check that the e-mail of GX RemoteService-I has been set.	Make sure that correct values have been set to the e-mail of GX RemoteService-I.		
e-mail cannot be sent from	<ul> <li>Check that mail can be set to the specified destination from commercially available e-mail.</li> <li>Check that the software can send mail.</li> </ul>	Check the settings for error. Contact the provider for confirmation.		
GA REHIDLESEI VILE-I.	Check that the SMTP and POP3 server settings are correct.	<ul> <li>Check that the set character string is correct (e.g. periods, colons).</li> <li>Check the SMTP and POP3 server settings presented by the provider.</li> </ul>		
	Check that the account name and password have been set.	Confirm the account name and password presented by the provider.		

	Phenomenon	Check	Corrective Action		
	Error appears in commented	Check that device comments are written to the PLC CPU.	Using GX Developer, check that device comments have been written.		
	monitor.	Check that the device comments are correct.	Display the device setting screen of the server (personal computer) and check the registered device comment names.		
	Error appears in T/C device monitor.	Check that the program name is correct.	Display the device setting screen of the server (personal computer) and check the registered program name.		
	Tag names cannot be displayed.	Check that tag setting has been made to the server (personal computer).	Display the tag setting screen of the server (personal computer) and make sure that the tag names have been registered and the setting is valid.		
	The line cannot be disconnected.	Check that disconnection from the personal computer is enabled on the server (personal computer).	Display the dial-up setting screen of the server (personal computer) and make sure that "Server Side Circuit Settings Time to disconnect the circuit" has been turned on.		
Common to clients	The dial-up disconnection timer cannot be set.	Check that dial-up disconnection timer setting from the personal computer is enabled on the server (personal computer).	Display the dial-up setting screen of the server (personal computer) and make sure that "Server Side Circuit Settings Time to disconnect the circuit" has been turned on.		
	When devices or comments are displayed, a time-out occurs frequently and they cannot be displayed on the browser.	Check the script time-out period on the server (personal computer).	Change the script time-out period. Refer to REMARKS for the changing method.		
	Communication cannot be made with the PLC. 01802001 01802002 01802005 010*4030 010*4031 010*4032 (*: Any of 0 to F enters.)	An unusable device name or range is used.	Check the device name and range in the PLC CPU manual.		

The following is the troubleshooting of the personal computer.



The following is the way to change the script time-out period.



(Start)

1) Start Internet Information Service.

(From previous page)

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Virtual Directory Docume	nts Directory S	ecurity HTTP	Headers   C	Custom Errors
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Cript source acces     Fead     Write     Directory browsing	\$	Log visits V Index this	resource	
Application Settings				
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Execute Permissions:	Scripts only		-	
Application Protection:	Medium (Poole	ed)	<u> </u>	Unioad
	OK	Cancel	Apply	Help
		1		

 Right-click the virtual directory [Index] of GX RemoteService-I and choose [Properties].

 Click the "Configuration" button in the <Virtual Directory> tab.

 Change [ASP Script timeout] to about 200 seconds in the <App Options> tab and click the OK button.

*
Application Configuration
App Mappings App Options App Debugging
Application Configuration ✓ Enable session state Session timeout: 20 minutes ✓ Enable puffering ✓ Enable puffering ✓ Enable parent paths Default ASP Janguage: VBScript
ASP Script timeout: 30 seconds
OK Cancel Apply Help
1

(Completion)

## APPENDICES

**APPENDIX 1 RESTRICTIONS** 

The following table indicates the restrictions on use of GX RemoteService-I.

Item	Restrictions
Monitor	The monitor display or like (inquiry to the personal computer) is slow or the monitor display results in a time-out.
Setting check	Checks on set values, such as device names and ranges, are made by the server (personal computer).
Search	Comment search may not be executed using a mobile phone, depending on the line condition.
Web server module	Web server module with first five digits of serial number "05112" or later is applicable to this software package.
MELSOFT connection	When performing the MELSOFT connection, install Internet Explorer 6.0 or later
function	into the operating environment of server. (Installed in Windows® XP by default.)
Connection set up	Only global IP is applicable for a dial-up router.
	(IP masquerade is unsupported.)
Web function	The Web function can be executed by the Windows personal computer or PC CPU module.
	standard.
Performance	Update operation for the client may be delayed or communication time out error
(communication speed)	may occur during remote access, depending on the line condition.
Server connection	It is required to notify the client of the server IP address and HTTP port number for each dial-up connection.
LAN connection	When acquiring an IP address from DHCP server, note that the server changes the IP address regularly. Because of this character, if "Acquire IP address automatically" is set for LAN connection, this setting will not be supported.
Number of connected servers	One client cannot connect to multiple servers (personal computers) simultaneously.
Max number of connections	The number of allowable connections (clients) varies with the execution environment. Therefore, if many clients are connecting to the server, an error occurs and the corresponding dialog box appears. In this case, disconnect the unnecessary connections or execute re-connection after a certain time has passed.
Number of objects that can be monitored	Up to 20 objects can be monitored through a connection to the server (personal computer). (One client is allowed to request to connect to more than two objects. In object unit.)
Installation	Installation of this software package into a personal computer/PC CPU module is allowed to the user who has logged on as an administrators group only.

Item	Restrictions
Modem connection	When performing the MELSOFT connection, note that connection route via modem within the connection between the server and PLC system is not supported. (e.g., via Q6TEL or QJ71CMO)
Ethernet board/card	This software package may not work correctly in the personal computer that uses multiple Ethernet boards/cards.
IP address	Multiple IP addresses cannot be assigned to the personal computer/PC CPU module including this software package.
Line connection	The URL of the server (personal computer) must be mailed to the personal computer every time the server (personal computer) dials up.
	The IP address assigned by the provider that the server (personal computer) dials up must be the global IP address.
	The number of personal computers connectable to PWS simultaneously is up to 10. If there are more than 10, HTTP error 403 is displayed on the browser.
	When connection is made from the browser designed for the server (personal computer), PWS counts the number of connected personal computers as 2.
	A response from the server (personal computer) may be slow depending on the line conditions and like of the provider and between the relayed Internet servers.

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 MODEL:
 SW2D5-RAS-O-E

 MODEL CODE:
 13JU50

## MITSUBISHI ELECTRIC CORPORATION

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