MITSUBISHI ELECTRIC

MELSOFT

Integrated FA Software

GT Simulator3
Version1

Operating Manual

for GT Works3

GT Simulator3

● SAFETY PRECAUTIONS ●

(Always read these precautions 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 precautions given in this manual are concerned with this product.
In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

| ⚠ WARNING | Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury. |
| ⚠ CAUTION | CAUTION Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage. |

Note that the ⚠ caution level may lead to a serious accident 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.

[Test Operation Precautions]

⚠ WARNING

● GT Simulator3 is designed to simulate the actual GOT to debug created screens. However, we do not guarantee the operations of the GOT and PLC CPU after debugging.
After performing debugging on GT Simulator2, connect the GOT and PLC CPU and perform ordinary debugging before starting actual operation.
Not using the actual GOT and PLC CPU for debugging may result in accidents due to incorrect outputs or malfunctions.

CAUTIONS FOR USING THIS SOFTWARE

1. Required PC memory

   The processing may be terminated by Microsoft® Windows® on a personal computer of which main memory capacity is less than 64M bytes. Make sure to secure the capacity of 64M bytes or more.

2. Free capacity of hard disk

   At least 200M bytes of free capacity of virtual memory should be secured within hard disk to run this software.

   The processing may be terminated by Windows®, if free space of 200M bytes or more cannot be secured within hard disk while running GT Simulator2.

   Secure enough free capacity of virtual memory within hard disk space in order to run the software.

   When using the GT Simulator2 together with the GT Designer2, GX Developer or GX Simulator, the extra free capacity is required.

   For the free capacity required for using the GT Designer2, GX Developer or GX Simulator, refer to the following manual.

   ☞ •GT Designer3 Version1 Screen Design Manual (Fundamentals)

   •GX Developer Version☐ Operating Manual (Startup)

   •GX Simulator Version☐ Operating Manual

3. Display of GT Simulator3 and GOT

   Display of GT Simulator3 may be different from display of GOT.

   Confirm for actual display of GOT on the GOT

INTRODUCTION

Thank you for choosing Mitsubishi Graphic Operation Terminal (Mitsubishi GOT).
Read this manual and make sure you understand the functions and performance of the GOT thoroughly in advance to ensure correct use.

CONTENTS

1. OVERVIEW

2. SYSTEM CONFIGURATION

3. SPECIFICATIONS

4. SCREEN CONFIGURATION OF GT SIMULATOR3

5. GT SIMULATOR3 OPERATING METHOD

6. FUNCTIONS OF GT SIMULATOR3

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APPENDICES

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REVISIONS

MANUALS

The following table lists the manual relevant to this product.
Refer to each manual for any purpose.

■ Screen creation software manuals

Manual Name	Packaging	Manual Number (Model code)
GT Works3 Version1 Installation Procedure Manual	Enclosed in product	–
GT Designer3 Version1 Screen Design Manual (Fundamentals) 1/2, 2/2	Stored in DVD-ROM	SH-080866ENG (1D7MB9)
GT Designer3 Version1 Screen Design Manual (Functions) 1/2, 2/2	Stored in DVD-ROM	SH-080867ENG (1D7MC1)
GT Simulator3 Version1 Operating Manual for GT Works3	Stored in DVD-ROM	SH-080861ENG (1D7MB1)
GT Converter2 Version3 Operating Manual for GT Works3	Stored in DVD-ROM	SH-080862ENG (1D7MB2)

■ Connection manuals

Manual Name	Packaging	Manual Number (Model code)
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	Stored in DVD-ROM	SH-080868ENG (1D7MC2)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3	Stored in DVD-ROM	SH-080869ENG (1D7MC3)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3	Stored in DVD-ROM	SH-080870ENG (1D7MC4)
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3	Stored in DVD-ROM	SH-080871ENG (1D7MC5)

■ Extended and option function manuals

Manual Name	Packaging	Manual Number (Model code)
GOT1000 Series Gateway Functions Manual for GT Works3	Stored in DVD-ROM	SH-080858ENG (1D7MA7)
GOT1000 Series MES Interface Function Manual for GT Works3	Stored in DVD-ROM	SH-080859ENG (1D7MA8)
GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3	Stored in DVD-ROM	SH-080863ENG (1D7MB3)

■ GT SoftGOT1000 manuals

Manual Name	Packaging	Manual Number (Model code)
GT SoftGOT1000 Version3 Operating Manual for GT Works3	Stored in DVD-ROM	SH-080860ENG (1D7MA9)

■ GT16 manuals

Manual Name	Packaging	Manual Number (Model code)
GT16 User's Manual (Hardware)	Stored in DVD-ROM	SH-080928ENG (1D7MD3)
GT16 User's Manual (Basic Utility)	Stored in DVD-ROM	SH-080929ENG (1D7MD4)
GT16 Handy GOT User's Manual	Stored in DVD-ROM	JY997D41201 JY997D41202 (09R821)

■ GT15 manuals

Manual Name	Packaging	Manual Number (Model code)
GT15 User's Manual	Stored in DVD-ROM	SH-080528ENG (1D7M23)

■ GT14 manuals

Manual Name	Packaging	Manual Number (Model code)
GT14 User's Manual	Stored in DVD-ROM	JY997D44801 (09R823)

■ GT12 manuals

Manual Name	Packaging	Manual Number (Model code)
GT12 User's Manual	Stored in DVD-ROM	SH-080977ENG (1D7ME1)

■ GT11 manuals

Manual Name	Packaging	Manual Number (Model code)
GT11 User's Manual	Stored in DVD-ROM	JY997D17501 (09R815)
GT11 Handy GOT User's Manual	Stored in DVD-ROM	JY997D20101 JY997D20102 (09R817)

■ GT10 manuals

Manual Name	Packaging	Manual Number (Model code)
GT10 User's Manual	Stored in DVD-ROM	JY997D24701 (09R819)

■ Creating a project

Obtaining the specifications and operation methods of GT Designer3	GT Designer3 Version1 Screen Design Manual (Fundamentals) 1/2, 2/2
Setting available functions on GT Designer3	
Creating a screen displayed on the GOT	
Obtaining useful functions to increase efficiency of drawing	

Setting details for figures and objects	GT Designer3 Version1 Screen Design Manual (Functions) 1/2, 2/2
Setting functions for the data collection or trigger action	
Setting functions to use peripheral devices	

Simulating a created project on a personal computer	GT Simulator3 Version1 Operating Manual for GT Works3

■ Connecting a controller to the GOT

Obtaining information of Mitsubishi products applicable to the GOT	GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3
Connecting Mitsubishi products to the GOT	
Connecting multiple controllersto one GOT (Multi-channel function)	
Establishing communication between a personal computer and a controller via the GOT (FA transparent function)	

Obtaining information of Non-Mitsubishi products applicable to the GOT	• GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 • GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3
Connecting Non-Mitsubishi products to the GOT	

Obtaining information of peripheral devices applicable to the GOT	GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3
Connecting peripheral devices including a barcode reader to the GOT	

■ Transferring data to the GOT

Writing data to the GOT	GT Designer3 Version1 Screen Design Manual (Fundamentals) 1/2, 2/2
Reading data from the GOT	
Verifying a editing project to a GOT project	

■ Others

Obtaining specifications (including part names, external dimensions, and options) of each GOT	• GT16 User's Manual (Hardware) • GT16 Handy GOT User's Manual • GT15 User's Manual
Installing the GOT	• GT14 User's Manual • GT12 User's Manual • GT11 User's Manual • GT11 Handy GOT User's Manual • GT10 User's Manual
Operating the utility	• GT16 User's Manual (Basic Utility) • GT16 Handy GOT User's Manual • GT15 User's Manual • GT14 User's Manual • GT12 User's Manual • GT11 User's Manual • GT11 Handy GOT User's Manual • GT10 User's Manual
Configuring the gateway function	GOT1000 Series Gateway Functions Manual for GT Works3
Configuring the MES interface function	GOT1000 Series MES Interface Function Manual for GT Works3
Configuring the extended function and option function	GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3
Using a personal computer as the GOT	GT SoftGOT1000 Version3 Operating Manual for GT Works3

ABBREVIATIONS AND GENERIC TERMS

■ GOT

Abbreviations and generic terms			Description
GOT1000 Series	GT1695	GT1695M-X	Abbreviation of GT1695M-XTBA, GT1695M-XTBD
	GT1685	GT1685M-S	Abbreviation of GT1685M-STBA, GT1685M-STBD
	GT1675	GT1675M-S	Abbreviation of GT1675M-STBA, GT1675M-STBD
		GT1675M-V	Abbreviation of GT1675M-VTBA, GT1675M-VTBD
		GT1675-VN	Abbreviation of GT1675-VNBA, GT1675-VNBD
	GT1672	GT1672-VN	Abbreviation of GT1672-VNBA, GT1672-VNBD
	GT1665	GT1665M-S	Abbreviation of GT1665M-STBA, GT1665M-STBD
		GT1665M-V	Abbreviation of GT1665M-VTBA, GT1665M-VTBD
	GT1662	GT1662-VN	Abbreviation of GT1662-VNBA, GT1662-VNBD
	GT1655	GT1655-V	Abbreviation of GT1655-VTBD
	GT16		Abbreviation of GT1695, GT1685, GT1675, GT1672, GT1665, GT1662, GT1655, GT16 Handy GOT
	GT1595	GT1595-X	Abbreviation of GT1595-XTBA, GT1595-XTBD
	GT1585	GT1585V-S	Abbreviation of GT1585V-STBA, GT1585V-STBD
		GT1585-S	Abbreviation of GT1585-STBA, GT1585-STBD
	GT157□	GT1575V-S	Abbreviation of GT1575V-STBA, GT1575V-STBD
		GT1575-S	Abbreviation of GT1575-STBA, GT1575-STBD
		GT1575-V	Abbreviation of GT1575-VTBA, GT1575-VTBD
		GT1575-VN	Abbreviation of GT1575-VNBA, GT1575-VNBD
		GT1572-VN	Abbreviation of GT1572-VNBA, GT1572-VNBD
	GT156□	GT1565-V	Abbreviation of GT1565-VTBA, GT1565-VTBD
		GT1562-VN	Abbreviation of GT1562-VNBA, GT1562-VNBD
	GT155□	GT1555-V	Abbreviation of GT1555-VTBD
		GT1555-Q	Abbreviation of GT1555-QTBD, GT1555-QSBD
		GT1550-Q	Abbreviation of GT1550-QLBD
	GT15		Abbreviation of GT1595, GT1585, GT157□, GT156□, GT155□
	GT145□	GT1455-Q	Abbreviation of GT1455-QTBDE, GT1455-QTBD
		GT1450-Q	Abbreviation of GT1450-QMBDE, GT1450-QMBD, GT1450-QLBDE, GT1450-QLBD
	GT14		Abbreviation of GT1455-Q, GT1450-Q
	GT1275	GT1275-V	Abbreviation of GT1275-VNBA, GT1275-VNBD
	GT1265	GT1265-V	Abbreviation of GT1265-VNBA, GT1265-VNBD
	GT12		Abbreviation of GT1275, GT1265
	GT115□	GT1155-Q	Abbreviation of GT1155-QTBDQ, GT1155-QSBDQ, GT1155-QTBDA, GT1155-QSBDA, GT1155-QTBD, GT1155-QSBD
		GT1150-Q	Abbreviation of GT1150-QLBDQ, GT1150-QLBDA, GT1150-QLBD
	GT11		Abbreviation of GT115□, GT11 Handy GOT,
	GT105□	GT1055-Q	Abbreviation of GT1055-QSBD
		GT1050-Q	Abbreviation of GT1050-QBBD
	GT104□	GT1045-Q	Abbreviation of GT1045-QSBD
		GT1040-Q	Abbreviation of GT1040-QBBD
	GT1030		Abbreviation of GT1030-LBD, GT1030-LBD2, GT1030-LBL, GT1030-LBDW, GT1030-LBDW2, GT1030-LBLW, GT1030-LWD, GT1030-LWD2, GT1030-LWL, GT1030-LWDW, GT1030-LWDW2, GT1030-LWLW, GT1030-HBD, GT1030-HBD2, GT1030-HBL, GT1030-HBDW, GT1030-HBDW2, GT1030-HBLW, GT1030-HWD, GT1030-HWD2, GT1030-HWL, GT1030-HWDW, GT1030-HWDW2, GT1030-HWLW
	GT1020		Abbreviation of GT1020-LBD, GT1020-LBD2, GT1020-LBL, GT1020-LBDW, GT1020-LBDW2, GT1020-LBLW, GT1020-LWD, GT1020LWD2, GT1020-LWL, GT1020-LWDW, GT1020-LWDW2, GT1020-LWLW
	GT10		Abbreviation of GT105□, GT104□, GT1030, GT1020

Abbreviations and generic terms				Description
GOT1000 Series	Handy GOT	GT16 Handy GOT	GT1665HS-V	Abbreviation of GT1665HS-VTBD
		GT11 Handy GOT	GT1155HS-Q	Abbreviation of GT1155HS-QSBD
			GT1150HS-Q	Abbreviation of GT1150HS-QLBD
	GT SoftGOT1000			Abbreviation of GT SoftGOT1000
GOT900 Series				Abbreviation of GOT-A900 series, GOT-F900 series
GOT800 Series				Abbreviation of GOT-800 series

■ Communication unit

Abbreviations and generic terms	Description
Bus connection unit	GT15-QBUS, GT15-QBUS2, GT15-ABUS, GT15-ABUS2, GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L
Serial communication unit	GT15-RS2-9P, GT15-RS4-9S, GT15-RS4-TE
RS-422 conversion unit	GT15-RS2T4-9P, GT15-RS2T4-25P
Ethernet communication unit	GT15-J71E71-100
MELSECNET/H communication unit	GT15-J71LP23-25, GT15-J71BR13
MELSECNET/10 communication unit	GT15-75J71LP23-Z[*1], GT15-75J71BR13-Z[*2]
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX
CC-Link IE Field Network communication unit	GT15-J71GF13-T2
CC-Link communication unit	GT15-J61BT13, GT15-75J61BT13-Z[*3]
Interface converter unit	GT15-75IF900
Serial multi-drop connection unit	GT01-RS4-M
Connection Conversion Adapter	GT10-9PT5S
RS-232/485 signal conversion adapter	GT14-RS2T4-9P

*1 A9GT-QJ71LP23 + GT15-75IF900 set
*2 A9GT-QJ71BR13 + GT15-75IF900 set
*3 A8GT-J61BT13 + GT15-75IF900 set

■ Option unit

Abbreviations and generic terms		Description
Printer unit		GT15-PRN
Video/RGB unit	Video input unit	GT16M-V4, GT15V-75V4
	RGB input unit	GT16M-R2, GT15V-75R1
	Video/RGB input unit	GT16M-V4R1, GT15V-75V4R1
	RGB output unit	GT16M-ROUT, GT15V-75ROUT
Multimedia unit		GT16M-MMR
CF card unit		GT15-CFCD
CF card extension unit[*1]		GT15-CFEX-C08SET
External I/O unit		GT15-DIO, GT15-DIOR
Sound output unit		GT15-SOUT

*1 GT15-CFEX + GT15-CFEXIF + GT15-C08CF set.

■ Option

Abbreviations and generic terms		Description
Memory card	CF card	GT05-MEM-16MC, GT05-MEM-32MC, GT05-MEM-64MC, GT05-MEM-128MC, GT05-MEM-256MC, GT05-MEM-512MC, GT05-MEM-1GC, GT05-MEM-2GC, GT05-MEM-4GC, GT05-MEM-8GC, GT05-MEM-16GC
	SD card	NZ1MEM-2GBSD, NZ1MEM-4GBSD, NZ1MEM-8GBSD, NZ1MEM-16GBSD, L1MEM-2GBSD, L1MEM-4GBSD
Memory card adaptor		GT05-MEM-ADPC
Option function board		GT16-MESB, GT15-FNB, GT15-QFNB, GT15-QFNB16M, GT15-QFNB32M, GT15-QFNB48M, GT11-50FNB, GT15-MESB48M
Battery		GT15-BAT, GT11-50BAT
Protective Sheet	For GT16	GT16-90PSCB, GT16-90PSGB, GT16-90PSCW, GT16-90PSGW, GT16-80PSCB, GT16-80PSGB, GT16-80PSCW, GT16-80PSGW, GT16-70PSCB, GT16-70PSGB, GT16-70PSCW, GT16-70PSGW, GT16-60PSCB, GT16-60PSGB, GT16-60PSCW, GT16-60PSGW, GT16-50PSCB, GT16-50PSGB, GT16-50PSCW, GT16-50PSGW, GT16-90PSCB-012, GT16-80PSCB-012, GT16-70PSCB-012, GT16-60PSCB-012, GT16-50PSCB-012, GT16H-60PSC
	For GT15	GT15-90PSCB, GT15-90PSGB, GT15-90PSCW, GT15-90PSGW, GT15-80PSCB, GT15-80PSGB, GT15-80PSCW, GT15-80PSGW, GT15-70PSCB, GT15-70PSGB, GT15-70PSCW, GT15-70PSGW, GT15-60PSCB, GT15-60PSGB, GT15-60PSCW, GT15-60PSGW, GT15-50PSCB, GT15-50PSGB, GT15-50PSCW, GT15-50PSGW
	For GT14	GT14-50PSCB, GT14-50PSGB, GT14-50PSCW, GT14-50PSGW
	For GT12	GT11-70PSCB, GT11-65PSCB
	For GT11	GT11-50PSCB, GT11-50PSGB, GT11-50PSCW, GT11-50PSGW, GT11H-50PSC
	For GT10	GT10-50PSCB, GT10-50PSGB, GT10-50PSCW, GT10-50PSGW, GT10-40PSCB, GT10-40PSGB, GT10-40PSCW, GT10-40PSGW, GT10-30PSCB, GT10-30PSGB, GT10-30PSCW, GT10-30PSGW, GT10-20PSCB, GT10-20PSGB, GT10-20PSCW, GT10-20PSGW
Protective cover for oil		GT05-90PCO, GT05-80PCO, GT05-70PCO, GT05-60PCO, GT05-50PCO, GT16-50PCO, GT10-40PCO, GT10-30PCO, GT10-20PCO
USB environmental protection cover		GT16-UCOV, GT16-50UCOV, GT15-UCOV, GT14-50UCOV, GT11-50UCOV
Stand		GT15-90STAND, GT15-80STAND, GT15-70STAND, A9GT-50STAND, GT05-50STAND
Attachment		GT15-70ATT-98, GT15-70ATT-87, GT15-60ATT-97, GT15-60ATT-96, GT15-60ATT-87, GT15-60ATT-77, GT15-50ATT-95W, GT15-50ATT-85
Backlight		GT16-90XLTT, GT16-80SLTT, GT16-70SLTT, GT16-70VLTT, GT16-70VLTTA, GT16-70VLTN, GT16-60SLTT, GT16-60VLTT, GT16-60VLTN, GT15-90XLTT, GT15-80SLTT, GT15-70SLTT, GT15-70VLTT, GT15-70VLTN, GT15-60VLTT, GT15-60VLTN
Multi-color display board		GT15-XHNB, GT15-VHNB
Connector conversion box		GT11H-CNB-37S, GT16H-CNB-42S
Emergency stop sw guard cover		GT11H-50ESCOV, GT16H-60ESCOV
Wall-hanging fitting		GT14H-50ATT
Memory loader		GT10-LDR
Memory board		GT10-50FMB
Panel-mounted USB port extension		GT14-C10EXUSB-4S, GT10-C10EXUSB-5S

■ Software

Abbreviations and generic terms		Description
GT Works3		Abbreviation of the SW□DND-GTWK3-E and SW□DND-GTWK3-EA
GT Designer3		Abbreviation of screen drawing software GT Designer3 for GOT1000 series
GT Simulator3		Abbreviation of screen simulator GT Simulator3 for GOT1000/GOT900 series
GT SoftGOT1000		Abbreviation of monitoring software GT SoftGOT1000
GT Converter2		Abbreviation of data conversion software GT Converter2 for GOT1000/GOT900 series
GT Designer2 Classic		Abbreviation of screen drawing software GT Designer2 Classic for GOT900 series
GT Designer2		Abbreviation of screen drawing software GT Designer2 for GOT1000/GOT900 series
iQ Works		Abbreviation of iQ Platform compatible engineering environment MELSOFT iQ Works
MELSOFT Navigator		Generic term for integrated development environment software included in the SW□DNC-IQWK (iQ Platform compatible engineering environment MELSOFT iQ Works)
GX Works3		Abbreviation of SW□DND-GXW3-E and SW□DND-GXW3-EA type programmable controller engineering software
GX Works2		Abbreviation of SW□DNC-GXW2-E and SW□DNC-GXW2-EA type programmable controller engineering software
Controller simulator	GX Simulator3	Abbreviation of GX Works3 with the simulation function
	GX Simulator2	Abbreviation of GX Works2 with the simulation function
	GX Simulator	Abbreviation of SW□D5C-LLT-E(-EV) type ladder logic test tool function software packages (SW5D5C-LLT (-EV) or later versions)
GX Developer		Abbreviation of SW□D5C-GPPW-E(-EV)/SW D5F-GPPW-E type software package
GX LogViewer		Abbreviation of SW□DNN-VIEWER-E type software package
PX Developer		Abbreviation of SW□D5C-FBDQ-E type FBD software package for process control
MT Works2		Abbreviation of motion controller engineering environment MELSOFT MT Works2(SW□DND-MTW2-E)
MT Developer		Abbreviation of SW□RNC-GSV type integrated start-up support software for motion controller Q series
MR Configurator2		Abbreviation of SW□DNC-MRC2-E type Servo Configuration Software
MR Configurator		Abbreviation of MRZJW□-SETUP□E type Servo Configuration Software
FR Configurator		Abbreviation of Inverter Setup Software (FR-SW□-SETUP-WE)
NC Configurator		Abbreviation of CNC parameter setting support tool NC Configurator
FX Configurator-FP		Abbreviation of parameter setting, monitoring, and testing software packages for FX3U-20SSC-H (SW□D5C-FXSSC-E)
FX3U-ENET-L Configuration tool		Abbreviation of FX3U-ENET-L type Ethernet module setting software (SW1D5-FXENETL-E)
RT ToolBox2		Abbreviation of robot program creation software (3D-11C-WINE)
MX Component		Abbreviation of MX Component Version□ (SW□D5C-ACT-E, SW□D5C-ACT-EA)
MX Sheet		Abbreviation of MX Sheet Version□ (SW□D5C-SHEET-E, SW□D5C-SHEET-EA)
CPU Module Logging Configuration Tool		Abbreviation of CPU Module Logging Configuration Tool (SW1DNN-LLUTL-E)

■ License key (for GT SoftGOT1000)

Abbreviations and generic terms	Description
License	GT15-SGTKEY-U, GT15-SGTKEY-P

■ Others

Abbreviations and generic terms	Description
IAI	Abbreviation of IAI Corporation
AZBIL	Abbreviation of Azbil Corporation (former Yamatake Corporation)
OMRON	Abbreviation of OMRON Corporation
KEYENCE	Abbreviation of KEYENCE CORPORATION
KOYO EI	Abbreviation of KOYO ELECTRONICS INDUSTRIES CO., LTD.
SHARP	Abbreviation of Sharp Manufacturing Systems Corporation
JTEKT	Abbreviation of JTEKT Corporation
SHINKO	Abbreviation of Shinko Technos Co., Ltd.
CHINO	Abbreviation of CHINO CORPORATION
TOSHIBA	Abbreviation of TOSHIBA CORPORATION
TOSHIBA MACHINE	Abbreviation of TOSHIBA MACHINE CO., LTD.
HITACHI IES	Abbreviation of Hitachi Industrial Equipment Systems Co., Ltd.
HITACHI	Abbreviation of Hitachi, Ltd.
FUJI	Abbreviation of FUJI ELECTRIC CO., LTD.
PANASONIC	Abbreviation of Panasonic Corporation
PANASONIC INDUSTRIAL DEVICES SUNX	Abbreviation of Panasonic Industrial Devices SUNX Co., Ltd.
YASKAWA	Abbreviation of YASKAWA Electric Corporation
YOKOGAWA	Abbreviation of Yokogawa Electric Corporation
ALLEN-BRADLEY	Abbreviation of Allen-Bradley products manufactured by Rockwell Automation, Inc.
GE	Abbreviation of GE Intelligent Platforms
LS IS	Abbreviation of LS Industrial Systems Co., Ltd.
MITSUBISHI INDIA	Mitsubishi Electric India Pvt. Ltd.
SCHNEIDER	Abbreviation of Schneider Electric SA
SICK	Abbreviation of SICK AG
SIEMENS	Abbreviation of Siemens AG
RKC	Abbreviation of RKC INSTRUMENT INC.
HIRATA	Abbreviation of Hirata Corporation
MURATEC	Abbreviation of Muratec products manufactured by Muratec Automation Co., Ltd.
PLC	Abbreviation of programmable controller
Temperature controller	Generic term for temperature controller manufactured by each corporation
Indicating controller	Generic term for indicating controller manufactured by each corporation
Control equipment	Generic term for control equipment manufactured by each corporation
CHINO controller	Abbreviation of indicating controller manufactured by CHINO CORPORATION
PC CPU module	Abbreviation of PC CPU Unit manufactured by CONTEC CO., LTD
GOT (server)	Abbreviation of GOTs that use the server function
GOT (client)	Abbreviation of GOTs that use the client function
Windows® font	Abbreviation of TrueType font and OpenType font available for Windows® (Differs from the True Type fonts settable with GT Designer3)
Intelligent function module	Indicates the modules other than the PLC CPU, power supply module and I/O module that are mounted to the base unit
MODBUS® /RTU	Generic term for the protocol designed to use MODBUS® protocol messages on a serial communication
MODBUS® /TCP	Generic term for the protocol designed to use MODBUS® protocol messages on a TCP/IP network

The following symbols are used in this manual.

Shows whether the GT16, GT15, GT14, GT12, GT11, GT10, and GT SoftGOT1000 are applicable.
・ ○ : Applicable
・ × : Not applicable

4.1 GOT Type Setting

GT16 GT15 GT14 GT12 GT11 GT10 GT Soft GOT1000

4.1.1 Settings

Select [Common] → [GOT Type Setting] from the menu to display the [GOT Type Setting] dialog box.

HINT

Settings relevant to functions
For the common settings in a project data, some settings are relevant to multiple GOT functions.
For each setting relevant to the GOT functions, refer to the following.

☞ Appendix8 Relevant Settings

[ ] : Shows the setting item displayed on the software screen or the GOT screen.

POINT : Refers to information required for operation.

HINT : Refers to information useful for operation.

Shows a chapter, section, relevant manual, or others of relevant information.
• (Fundamentals): GT Designer3 Version1 Screen Design Manual (Fundamentals)
• (Functions): GT Designer3 Version1 Screen Design Manual (Functions)

■ Setting for each screen

1. Select a screen editor to set a key window, and select [Screen] → [Screen Property] from the menu to display the [Screen Property] dialog box.

2. Select the [Key Window Basic Setting] tab or the [Key Window Advanced Setting] tab, and set the required items.
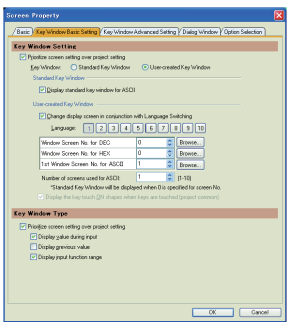
HINT

Settings relevant to functions
For the key window settings, some settings are relevant to multiple GOT functions.
For each setting relevant to the GOT functions, refer to the following.

☞ Appendix8 Relevant Settings

(1) Key Window Basic Setting tab

Shows the operation steps.
Operate the steps from the step 1.

Item	Description	Model
Prioritize screen setting over project setting	Select this item to give the setting for each screen priority over the setting for each project.	GT15 GT15 GT14 GT12 GT11 GT10 SoftGOT1000
Key Window	This item is available when [Prioritize screen setting over project setting] is selected for [Key Window Setting]. (Standard Key Window/User-created Key Window)	
Display standard key window for ASCII	Select this item to display the standard key window at ASCII input.	GT16 GT15 GT14 GT12 GT11 GT10 SoftGOT1000
Key Window Setting	This item is available when [User-created Key Window] is	

Shows whether the GT16, GT15, GT14, GT12, GT11, GT10, and GT SoftGOT1000 are applicable.
• Black: Applicable
• Gray: Not applicable

The above is different from the actual page, as it is provided for explanation only.

MEMO
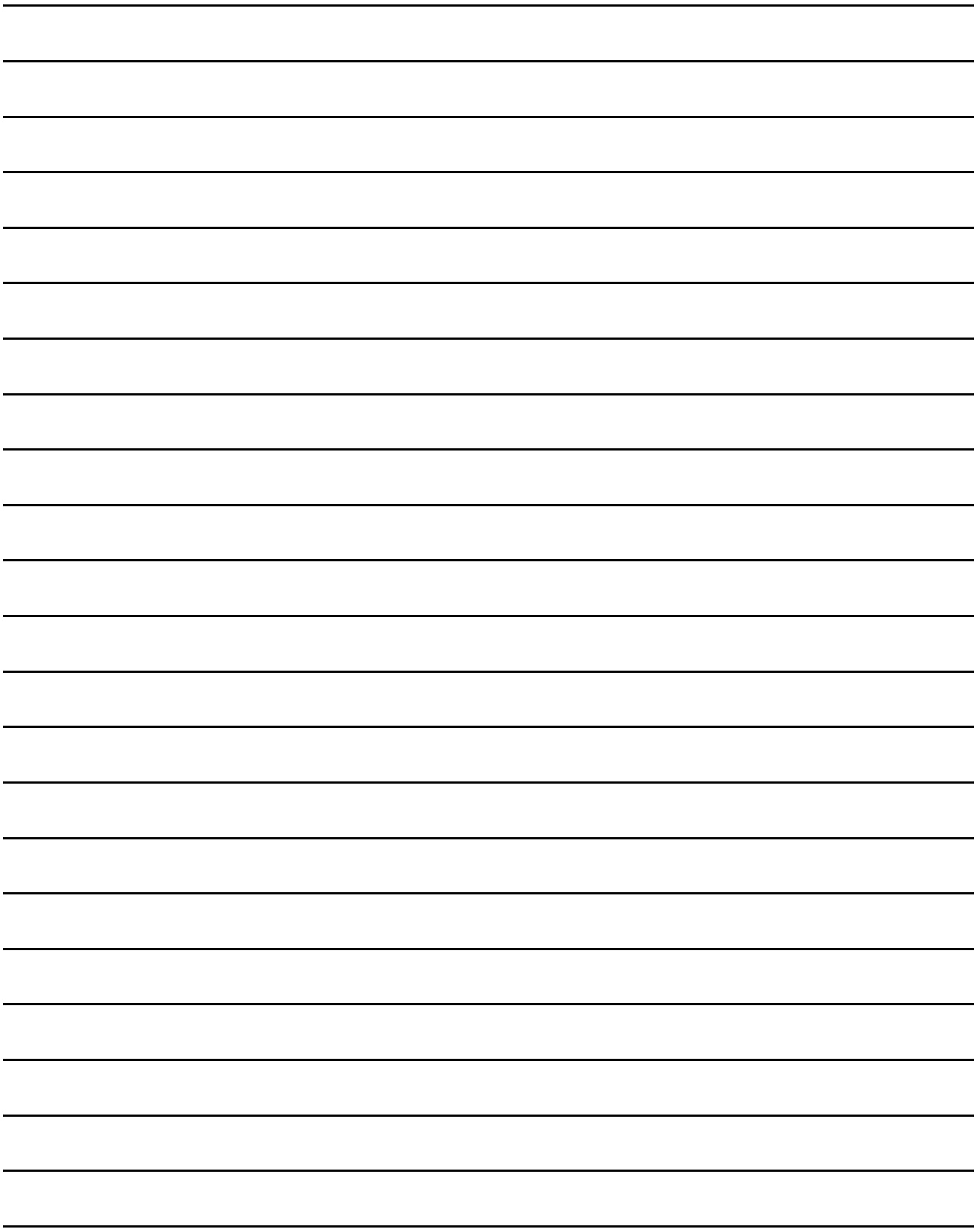
1. OVERVIEW

This manual describes the system configuration, screen configuration, operation methods and others of the GT Simulator3 applicable to GOT1000 series or GOT-A900 series.
GT Simulator3 is designed to simulate GOT operations on a PC using the project data of GT Designer3.
This manual describes using screen of GOT1000 series (GT15) simulator.
(Except for the case using screen of GOTA-900 series simulator only)

POINT

(1) **Installation method of GT Simulator3**
For the installation method of GT Simulator3, refer to the following manuals.
·For GOT1000 series simulator

☞ GT Works3 Version1 Installation Procedure Manual

·For GOT-A900 series simulator

☞ GT Works2 Version□ /GT Designer2 Version□ Operating Manual (Startup Introductory Manual)

(2) **Project data creating method of GT Designer2**
For the project data creating method of GT Designer2, refer to the following manuals.
·For GOT1000 series simulator

☞ GT Designer2 Version□ Screen Design Manual (Fundamentals)

·For GOT-A900 series simulator

☞ GT Designer2 Version□ Reference Manual

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1.1 Features

■ **Support the project data simulation of GOT2000 series, GOT1000 series, and GOT-A900 series.**

GT Simulator3 supports the simulation of the project data of GOT2000 or GOT1000 series created with GT Designer3 and the simulation of the project data of GOT-A900 series created with GT Designer2 or GT Designer2 Classic.

Simulator for GOT2000 series, GOT1000 series or GOT-A900 series are selected with the [Main Menu] on GT Simulator3.

(☞ 5.2 Starting GT Simulator3)

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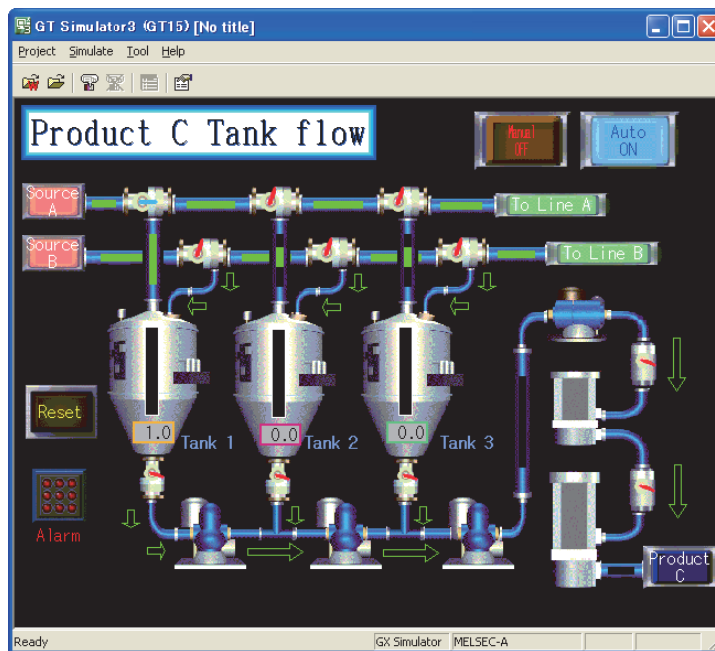
■ Simulation of GOT screen on personal computer

(1) Available to project data debug without GOT

GT Simulator2 is available to debug project data without GOT by simulating GOT operations on personal computer.

(2) Interaction with GX Developer, GX Works2, or GX Works3

Debugging screens is available using GT Simulator3 together with GX Developer, GX Works2, or GX Works3. By installing GX Developer, GX Works2, or GX Works3 and GT Designer3 on a personal computer, creating screens and debugging the created screens are available on one personal computer.

Any creation or correction made to a screen on GT Designer3 is available to debug on GT Simulator3 immediately. Therefore, design efficiency is improve greatly.
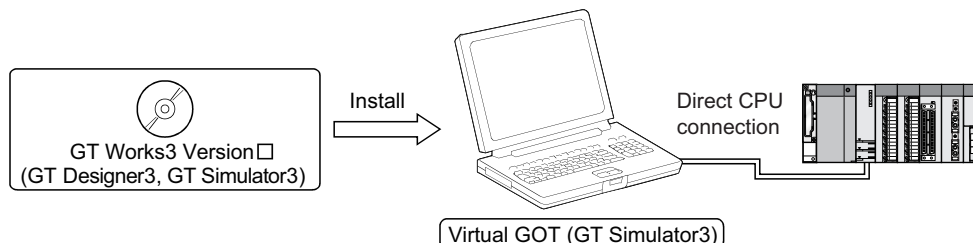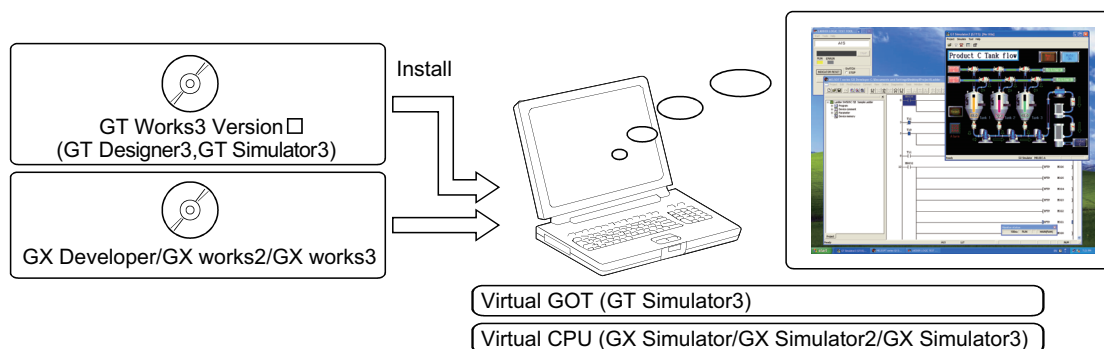

■ Compatibility with intelligent function module or network-compatible operation environment (Only for the PLC CPU connection)

Direct CPU connection of a personal computer and PLC CPU allows monitoring and write operation debugging of intelligent function module or on-network PLC.
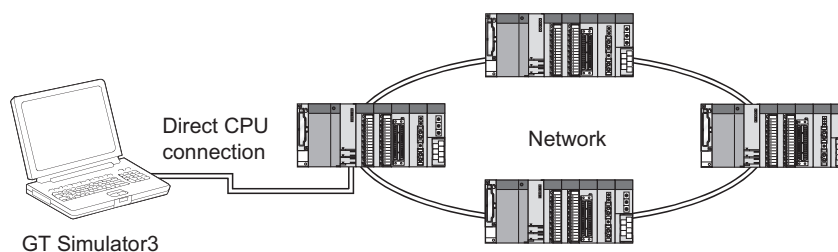
POINT

Monitoring speed when GT Simulator3 is directly connected to CPU

When GT Simulator3 is connected to a PLC CPU by the direct CPU connection, the monitor speed is slower than one when the software is linked to GX Simulator, GX Simulator2, or GX Simulator3.

MEMO
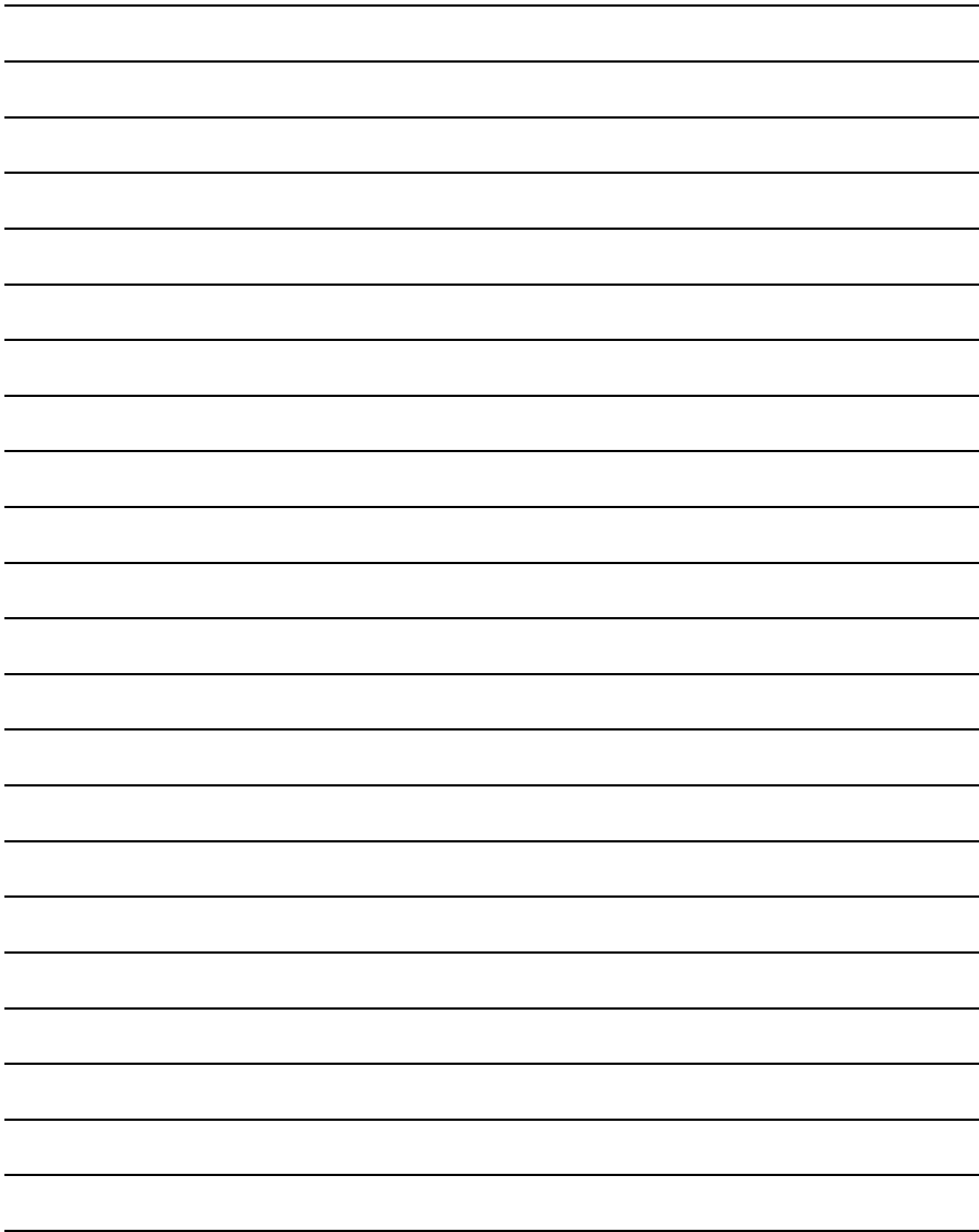
2. SYSTEM CONFIGURATION

2.1 System Configuration

■ When installing GT Simulator3

GT Works3 Version□

Personal computer

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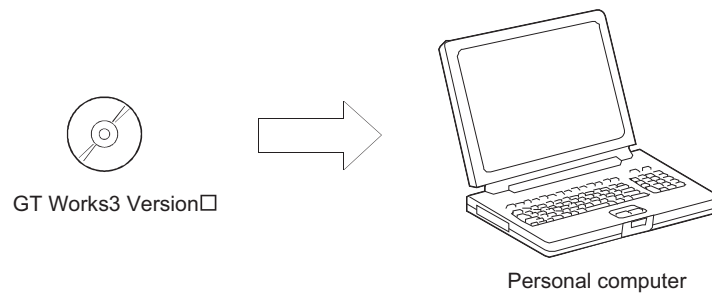
■ When executing GT Simulator3

(1) When connecting to the controller simulator

GT Works3 Version□

Controller simulator

Personal computer

Printer cable
Windows® compatible printer
(Required for using the printer function)
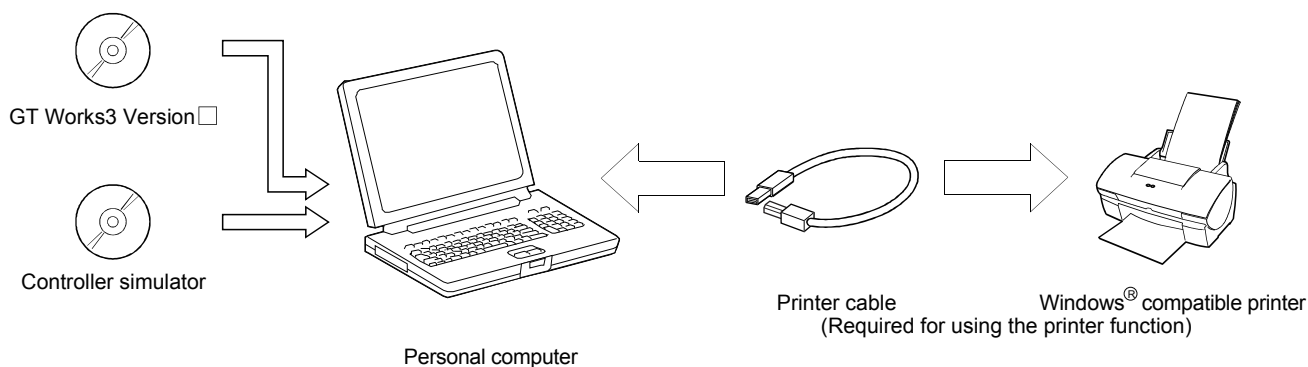
Install a controller simulator to be connected.

(a) When connecting with GX Simulator
- GX Developer
- GX Simulator

For how to install GX Developer or GX Simulator, refer to the following.

☞ GX Developer Version□ Operating Manual (Startup)

(b) When connecting with GX Simulator2
- GX Works2

For how to install GX Works2, refer to the following.

☞ GX Works2 Installation Procedure Manual

(c) When connecting with GX Simulator3
- GX Works3

For how to install GX Works3, refer to the following.

☞ GX Works3 Installation Instructions

(2) When using PLC CPU (At direct CPU connection)

Connection cable[2]

PLC CPU[1]

GT Works3 Version□

Personal computer

Printer cable
Windows® compatible printer
(Required for using the printer function)
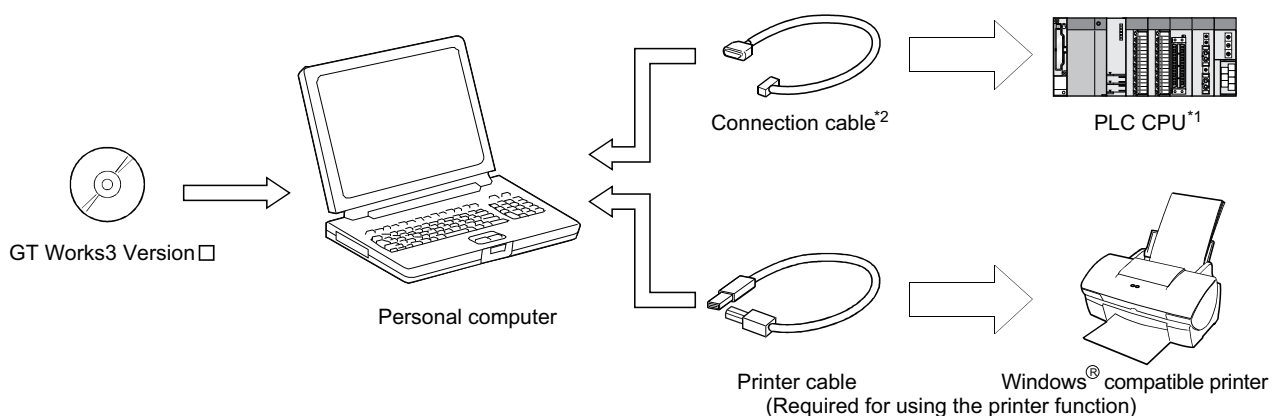
[1] For PLC CPUs that can be simulated, refer to the following.

☞ 2.3 PLC CPUs that Can Be Simulated

[2] For the cables used for connecting a personal computer and a PLC CPU, refer to the following.

☞ 2.4 Connection Cable

2.2 Operating environment

The following shows the GT Simulator3 operating environment

Item	Description	
Personal computer	PC/AT compatible personal computer that the following OSs run on.	
Operating system	• Microsoft® Windows® XP Professional Service Pack3 (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows® XP Home Edition Service Pack3 (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6]	• Microsoft® Windows Vista® Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows Vista® Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows Vista® Business (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows Vista® Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows Vista® Home Basic (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows® 7 Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*8*9] • Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*8*9] • Microsoft® Windows® 7 Professional (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*8*9] • Microsoft® Windows® 7 Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9] • Microsoft® Windows® 7 Starter (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*6] • Microsoft® Windows® 8 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10*11] • Microsoft® Windows® 8 pro (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10*11] • Microsoft® Windows® 8 (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10] • Microsoft® Windows® 8.1 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10*11] • Microsoft® Windows® 8.1 Pro (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10*11] • Microsoft® Windows® 8.1 (English, Simplified Chinese, Traditional Chinese, Korean, German versions)[*2*3*7*9*10]
CPU	1GHz or more recommended	
Memory	512MB or more recommended	32-bit OSs: 1GB or more recommended 64-bit OSs: 2GB or more recommended
Display	Resolution of XGA (1024 × 768 dots) or more	

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Item	Description
Hard disk space[*1]	For installation: 5GB or more recommended For execution: 512MB or more recommended
Display color	High color (16 bits) or more
Software	When creating or editing of project data • GOT1000 series (GT16) simulator : GT Designer3 • GOT1000 series (GT15) simulator : GT Designer3 • GOT1000 series (GT14) simulator : GT Designer3 • GOT1000 series (GT12) simulator : GT Designer3 • GOT1000 series (GT11) simulator : GT Designer3 • GOT1000 series (GT10) simulator : GT Designer3 • GOT-A900 series simulator : GT Designer, GT Designer2 or GT Designer2 Classic[*4] When using GX Simulator : GX Simulator Version5.00A or later[*5] When using GX Simulator2 : GX Works2 Version1.12N or later[*5] When using GX Simulator3 : GX Works3 Version1.007H or later (Refer to [Software version of GX Simulator and GX Simulator2, which simulates the PLC CPU] in the following page.)
Others	The mouse, key board, printer, CD-ROM drive, sound function (sound card), or speaker

*1   When using software other than GT Designer3 or GT Simulator3, free space is required separately.
     For the required free space, refer to the manuals of the software.

*2   Administrator authority is required for installing and using GT Simulator3.

*3   The following functions are not supported.

  • Activating the application with Windows® compatibility mode
  • Fast user switching
  • Change your desktop themes (fonts)
  • Remote desktop
  • DPI setting other than the normal size (For Windows® XP, Windows Vista®)
  • Setting the size other than [Smaller - 100%] for the characters and images on the screen (For Windows® 7, Windows® 8, and Windows® 8.1)

*4   Use the latest version of GT Designer2 Classic.
     For GT Designer2 Classic, contact your local distributor.

*5   Use GT Designer2 Classic included in GT Works3 that contains GT Simulator3.

    ☞ 3.3.1 (9) GT Simulator3 Versions.

*6   Only the 32-bit OS is available.

*7   The 32-bit OS and the 64-bit OS are available.

*8   Windows XP Mode is not supported.

*9   Windows Touch and Touch are not supported.

*10   Modern UI style is not supported.

*11   Hyper-V is not supported.

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POINT

(1) Regional setting of control panel of Windows®

This software doesn't start when a regional setting in the control panel of Windows is set besides "English", and set it to "English", please.

(2) Software version of the controller simulator

The following shows the software version of the controller simulators.

PLC CPU simulated	GX Simulator	GX Simulator2	GX Simulator3
R04CPU, R08CPU, R16CPU, R32CPU, R120CPU	-	-	Version1.007H or later
R08PCPU, R16PCPU, R32PCPU, R120PCPU	-	-	Version1.010L or later
QCPU (A mode), ACPU, motion controller CPU (A series)	Version5.00A or later	-	-
QnACPU	Version5.40E or later	-	-
FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series	Version5.40E or later	Version1.24A or later	-
QCPU (Q mode), (except Q00J/Q00/Q01CPU)	Version5.40E or later	Version1.12N or later	-
Q00JCPU, Q00CPU, Q01CPU	Version6.00A or later	Version1.12N or later	-
Q02PHCPU, Q06PHCPU	Version7.20W or later	Version1.87R or later	-
Q12PHCPU, Q25PHCPU	Version6.10L or later	Version1.87R or later	-
Q12PRHCPU, Q25PRHCPU	Version6.20W or later	-	-
FX3UC series	Version7.08J or later	Version1.24A or later	-
FX3U series	Version7.08J or later	Version1.24A or later	-
FX3G series	Version7.22Y or later	Version1.24A or later	-
FX3GC series	-	Version1.77F or later	-
FX3S series	-	Version1.492N or later	-
Q00UJCPU, Q00UCPU, Q01UCPU, Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q20UDHCPU, Q26UDHCPU, Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q26UDEHCPU	Version7.23Z or later	Version1.12N or later	-
Q03UDVCPU, Q04UDVCPU, Q06UDVCPU, Q13UDVCPU, Q26UDVCPU	-	Version1.492N or later	-
L02CPU, L26CPU-BT	-	Version1.24A or later	-
L02CPU-P, L26CPU-PBT	-	Version1.62Q or later	-
L06CPU	-	Version1.98C or later	-
L02SCPU, L26CPU	-	Version1.98C or later	-
L02SCPU-P, L06CPU-P, L26CPU-P	-	Version1.492N or later	-
Q50UDEHCPU, Q100UDEHCPU	-	Version1.31H or later	-

2.3 PLC CPUs that Can Be Simulated

■ Applicable CPU list

The following table indicates the PLC CPU that can be simulated with GT Simulator3.

(1) MELSEC PLC

Type			Model name			
RCPU[*4]			R04CPU, R120CPU R08PCPU, R04ENCPU, R120ENCPU, R12CCPU-V	R08CPU, R16PCPU, R08ENCPU,	R16CPU, R32PCPU, R16ENCPU,	R32CPU, R120PCPU, R32ENCPU,
QCPU	QCPU (Q Mode)		Q00JCPU, Q02HCPU, Q02PHCPU, Q12PRHCPU, Q00UJCPU, Q03UDCPU, Q13UDHCPU, Q03UDECPU, Q13UDEHCPU, Q100UDEHCPU Q03UDVCPU, Q26UDVCPU,	Q00CPU, Q06HCPU, Q06PHCPU, Q25PRHCPU, Q00UCPU, Q04UDHCPU, Q20UDHCPU, Q04UDEHCPU, Q20UDEHCPU, Q04UDVCPU,	Q01CPU, Q12HCPU, Q12PHCPU, Q01UCPU, Q06UDHCPU, Q26UDHCPU, Q06UDEHCPU, Q26UDEHCPU, Q06UDVCPU,	Q02CPU, Q25HCPU, Q25PHCPU, Q02UCPU, Q10UDHCPU, Q10UDEHCPU, Q50UDEHCPU, Q13UDVCPU,
	QCPU (A Mode)		Q02CPU-A,	Q02HCPU-A,	Q06HCPU-A	
Network module			QJ72LP25-25,	QJ72LP25G,	QJ72BR15	
LCPU			L02CPU, L06CPU, L26CPU-P,	L02CPU-P, L06CPU-P, L26CPU-PBT,	L02SCPU, L26CPU,	L02SCPU-P, L26CPU-BT,
QnACPU	QnACPU type		Q2ACPU, Q4ARCPU	Q2ACPU-S1,	Q3ACPU,	Q4ACPU,
	QnASCPU type		Q2ASCPU,	Q2ASCPU-S1,	Q2ASHCPU,	Q2ASHCPU-S1
ACPU	AnCPU type	AnUCPU	A2UCPU,	A2UCPU-S1,	A3UCPU,	A4UCPU
		AnACPU	A2ACPU,	A2ACPU-S1,	A3ACPU	
		AnNCPU	A1NCPU,	A2NCPU,	A2NCPU-S1,	A3NCPU
	AnSCPU type	AnUS(H)CPU	A2USCPU,	A2USCPU-S1,	A2USHCPU-S1	
		AnS(H)CPU	A1SCPU, A1SHCPU,	A1SCPU-S1, A2SHCPU	A1SCPUC24-R2,	A2SCPU,
		A1SJ(H)CPU	A1SJCPU,	A1SJCPU-S3,	A1SJHCPU	
	A1FXCPU		A1FXCPU			
			A0J2HCPU,	A2CCPU,	A2CCPUC24,	A2CJCPU
MELSEC iQ-F			FX5U,	FX5UC		
FXCPU			FX0 series, FX1 series, FX2 series, FX3G series, FX3S series	FX0N series, FX1N series, FX2C series, FX3GC series,	FX0S series, FX1NC series, FX2N series, FX3U series,	FX1S series, FX2NC series, FX3UC series,
MELSECNET/H remote I/O station			QJ72LP25-25,	QJ72LP25G,	QJ72BR15	
CC-Link IE Field Network head module			LJ72GF15-T2			
Motion controller CPU	MELSEC iQ-R series		R16MTCPU,	R32MTCPU		
	Q series		Q170MCPU[*1]	Q170MSCPU[*1]	Q170MSCPU-S1[*1]	
	A series		A171SHCPU[*2], A273UHCPU[*3],	A172SHCPU[*2], A273UHCPU-S3[*3]	A173UHCPU[*3],	A173UHCPU-S1[*3],

*1 Only the PLC CPU area (CPU No.1) is available for simulation.

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*2   Monitoring is allowed in the A2SHCPU device range.

*3   Monitoring is allowed in the A3UCPU device range.

*4   Simulate as QCPU with GX Simulator or GX Simulator2.

        In this case, devices which do not exist in QCPU cannot be simulated.

(2)   OMRON PLC*1

(a)   Compatible model

Type	Model name			
PLC CPU	CPM2A			
	CQM1,	CQM1H		
	CS1,	CS1D		
	CJ1H,	CJ1G,	CJ1M,	CJ2H
	C200Hα series (C200HX, C200HG)			
	CP1E			
	CV500*2,	CV1000*2,	CV2000*2	
	CVM1-CPU01*2,	CVM1-CPU11*2,	CVM1-CPU21*2	

*1   Only direct CPU connection is compatible.

        The connection to the RS-232C adaptor, connection cable, rack type host link unit, serial communication module, communication board or serial communication board is not compatible.

*2   RS-422 communication is not compatible. (RS-232 communication only)

(b)   Setting of the PLC CPU side*3

When connecting to GT Simulator3, set for PLC CPU side as follows.

Item	Set value
Transmission speed	9600bps
Data length	7 bits
Stop bit	2 bits
Parity	Even
Communicating condition format	Individual setting
Host link station No.	00

*3   For the setting of the PLC CPU side, refer to the following manual.

    • For GOT1000 series

       ☞ GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3

    • For GOT-A900 series

       ☞ GOT-A900 Series User's Manual (GT Works2 Version☐ /GT Designer2 Version☐ compatible Connection System Manual)

■ PLC CPU that can be simulated in each connection type

The following describes the connection types applied to the GT Simulator2 and the PLC CPU that can be simulated in each connection.

PLC CPU simulated		GOT1000 series simulator				GOT-A900 series simulator[9]	
		Direct CPU connection	GX Simulator[7]	GX Simulator2	GX Simulator3	Direct CPU connection	GX Simulator[7]
RCPU		○[11][13]	△[12]	△[12]	○[14]	×	×
QCPU[1]	QCPU (Q mode)	○[2]	○	○	×	○[2]	○
	QCPU (A mode)	○[2]	○	×	×	○[2]	○
LCPU[1]		○[2]	△[8]	○	×	×	×
QnACPU[1]		○[2]	○	×	×	○[2]	○
ACPU[1]		○[2][3]	○	×	×	○[2][3]	○
Motion controller CPU	MELSEC iQ-R series[4]	○[11]	×	×	×	×	×
	Q series[4]	○	○	×	×	×	×
	A series	○[10]	○[10]	×	×	○	○
MELSEC iQ-F		○	△[12]	△[12]	△[15]	×	×
FXCPU		○	○[5]	○[5]	×	○[5]	○[5]
MELSECNET/H remote I/O station		○	×	×	×	×	×
CC-Link IE Field Network head module		○	×	×	×	×	×
MELDAS C6/C64[1]		○[10]	×	×	×	○	×
OMRON PLC		○[6]	△	×	×	×	△
KEYENCE PLC		×	△	×	×	×	×
KOYO EI PLC		×	△	×	×	×	×
JTEKT PLC		×	△	×	×	×	×
SHARP PLC		×	△	×	×	×	△
TOSHIBA PLC		×	△	×	×	×	△
TOSHIBA MACHINE PLC		×	△	×	×	×	×
PANASONIC INDUSTRIAL DEVICES SUNX PLC		×	△	×	×	×	△
HITACHI IES EW PLC		×	△	×	×	×	△
HITACHI PLC		×	△	×	×	×	×
FUJI PLC		×	△	×	×	×	×
YASKAWA PLC		×	△	×	×	×	△
YOKOGAWA PLC		×	△	×	×	×	×
ALLEN-BRADLEY PLC		×	△	×	×	×	△
GE PLC		×	△	×	×	×	×
LS IS PLC		×	△	×	×	×	×
SICK PLC		×	△	×	×	×	×
SIEMENS PLC		×	△	×	×	×	△

○ : Applicable (Same as the device range of GOT)
△ : Applicable (Restricted in device range)
× : N/A

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*1 When GT Simulator3 monitors a station other than the host station
At direct CPU connection: GT Simulator3 monitors a station other than the host station in the connected network.
Since GT Simulator3 specifies the network number and the station number of a PLC CPU to access the PLC CPU, GT Simulator3 cannot access a PLC CPU that does not use the network number and the station number set in GX Developer.
When GT Simulator3 accesses GX Simulator/GX Simulator2 (one of the projects):
GT Simulator3 cannot monitor stations other than the host station.
(GT Simulator3 monitors the host station.)
When GT Simulator3 accesses GX Simulator2 (multiple projects):
GT Simulator3 monitors the stations other than the host station set in the [GX Works2 Project detail setup] dialog box.
(GT Simulator3 does not monitor the stations other than the host station that are not set in the dialog box. GT Simulator3 monitors the host station set in the dialog box.)

*2 The following describes PLC CPUs that can be simulated as other station. (Only GOT1000 series simulator supports the LCPU.)

The PLC CPU connected to the GT Simulator3 (host station)	Other station			
	QCPU (Q mode)	LCPU	QnACPU	ACPU QCPU (A mode)
QCPU (Q mode)	○	○	○	○
LCPU	○	○	×	×
QnACPU	×	×	○	×
ACPU, QCPU (A mode)	×	×	×	○

○ : Applicable   × : N/A

*3 When simulating AnNCPU(S1), A2SCPU, A0J2HCPU or A2CCPU, writing is allowed for the following software version or later.
Writing is not allowed for the prior versions.
• AnNCPU(S1)   : Version L or later for the one with link, version H or later for the one without link.
• A2SCPU   : Version H or later
• A0J2HCPU   : Version E or later
• A2CCPU   : Version H or later
*4 Only the PLC CPU area (CPU No.1) in the Q170MCPU, Q170MSCPU, and Q170MSCPU-S1 can be simulated.
*5 When [PC type] of GX Developer project is [FX3UC], simulating is allowed in the device range FX2N series.

☞ 3.3.2 (5) When simulating the project data whose PLC type is [FX3UC]

*6 Device Monitor cannot be used.
*7 For simulation with a third party PLC, the available device range for simulation is the same as that of the A4UCPU or the ACPU.
For details, refer to the following.

☞ 3.3.2 (3) When simulating the project data in which a third party PLC is set for the PLC Type.

*8 When the [PLC Series] of the GX Developer project is [LCPU], the simulation can be performed in the Q26UDHCPU device range.
For details, refer to the following.

☞ 3.3.2 (4) When simulating a project data in which [LCPU] is set for the PLC series, with GX Simulator.

*9 Simulation with GX Simulator2 is not available for the GOT-A900 Series simulators.
Perform the simulation with the direct CPU connection or GX Simulator.
*10 Cannot be simulated by GOT1000 series (GT10) simulator.
*11 Available only for the USB connection.
*12 Set the CPU as a QCPU to perform a simulation.
In this case, only the devices of QCPU can be simulated.
*13 Monitor the R12CCPU-V via an RCPU in the multiple CPU system.
*14 Set the RnENCPU or R12CCPU-V as an RCPU to perform a simulation.
In this case, only the devices of RCPU can be simulated.
*15 Set the CPU as an RCPU to perform a simulation.
In this case, only the devices of RCPU can be simulated.

POINT

Device range that can be simulated by the GT Simulator3
For device range that can be simulated by the GT Simulator2, refer to the following.

☞ 3.4 Device Ranges that Can Be Simulated

2.4 Connection Cable

This section provides the converter/cable whose operations has been checked by our company.

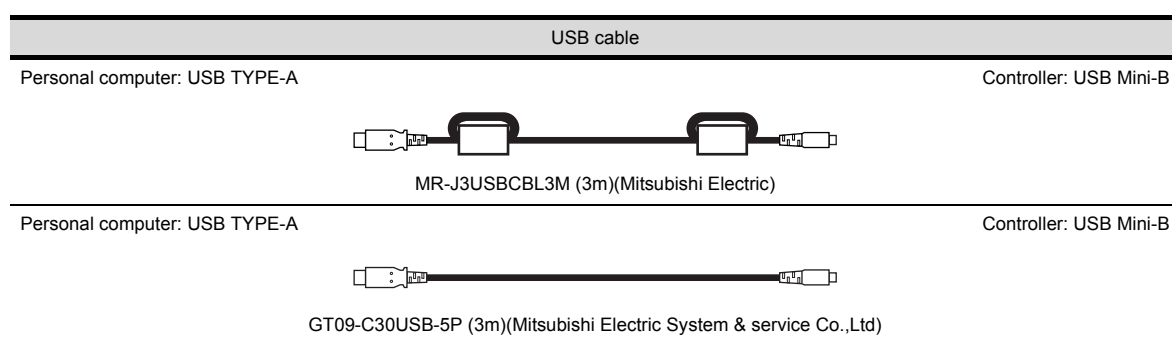**POINT**

Converter/Cable used in GT Simulator3
The converter/cable used for the GX Developer can be applied to the GT Simulator3.

2.4.1 Connecting with RCPU or motion controller CPU (MELSEC iQ-R series)

■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.
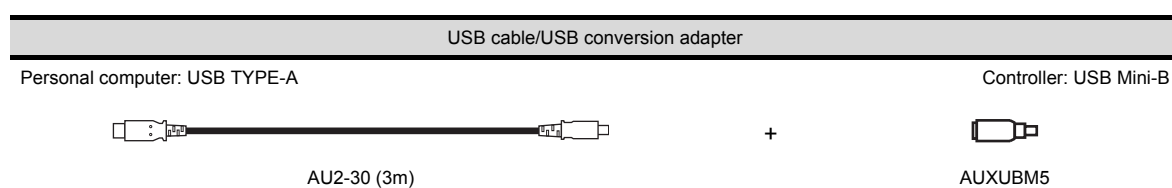
(1) Connection via USB cable
For users employing GOT1000 series simulator

USB cable	
Personal computer: USB TYPE-A	Controller: USB Mini-B
MR-J3USBCBL3M (3m)(Mitsubishi Electric)	
Personal computer: USB TYPE-A	Controller: USB Mini-B
GT09-C30USB-5P (3m)(Mitsubishi Electric System & service Co.,Ltd)	

■ Using product manufactured by BUFFALO KOKUYO SUPPLY INC. (Recommended Product)

(1) Connection via USB cable
For users employing GOT1000 series simulator

USB cable/USB conversion adapter	
Personal computer: USB TYPE-A	Controller: USB Mini-B
+	
AU2-30 (3m)	AUXUBM5

■ Using product manufactured by SANWA SUPPLY INC. (Recommended Product)

(1) Connection via USB cable
For users employing GOT1000 series simulator

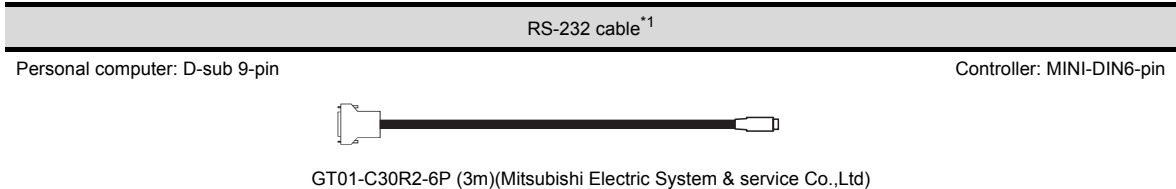| USB cable	
Personal computer: USB TYPE-A	Controller: USB Mini-B
KU-AMB530(3m)	
Personal computer: USB TYPE-A	Controller: USB Mini-B
KU-AMB550(5m)	
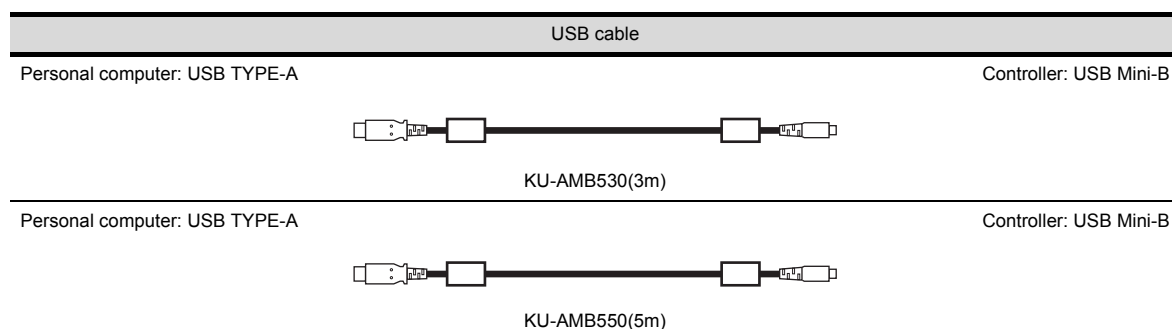
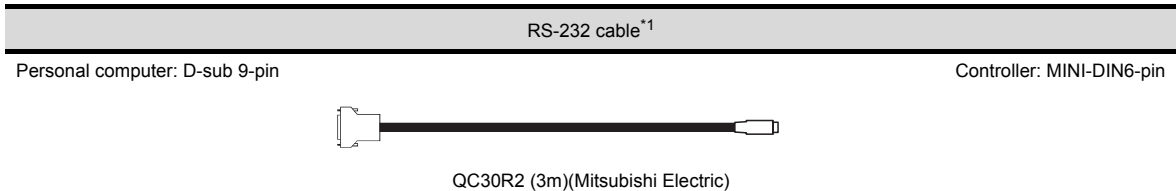## 2.4.2 Connecting to QCPU or motion controller CPU (Q series)

■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.

(1) At the connection with the RS-232 cable

(a) For users employing GOT1000 series simulator

RS-232 cable[1]

Personal computer: D-sub 9-pin	Controller: MINI-DIN6-pin

GT01-C30R2-6P (3m)(Mitsubishi Electric System & service Co.,Ltd)

(b) For users employing GOT-A900 series simulator

RS-232 cable[1]

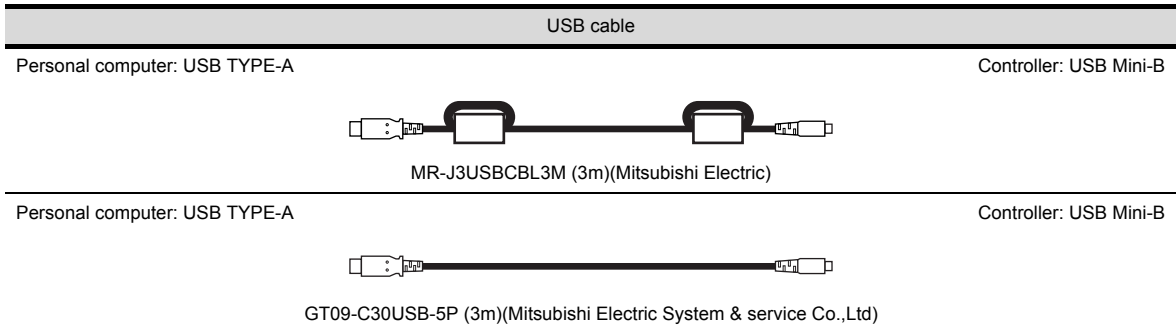| Personal computer: D-sub 9-pin	Controller: MINI-DIN6-pin

QC30R2 (3m)(Mitsubishi Electric)

[1] For the motion controller CPU (Q series), only the PLC CPU area (CPU No.1) in the Q170MCPU, Q170MSCPU, and Q170MSCPU-S1 can be simulated.

(2) Connection via USB cable

For users employing GOT1000 series simulator

• With Universal model QCPU

USB cable

Personal computer: USB TYPE-A	Controller: USB Mini-B

MR-J3USBCBL3M (3m)(Mitsubishi Electric)

Personal computer: USB TYPE-A	Controller: USB Mini-B

GT09-C30USB-5P (3m)(Mitsubishi Electric System & service Co.,Ltd)

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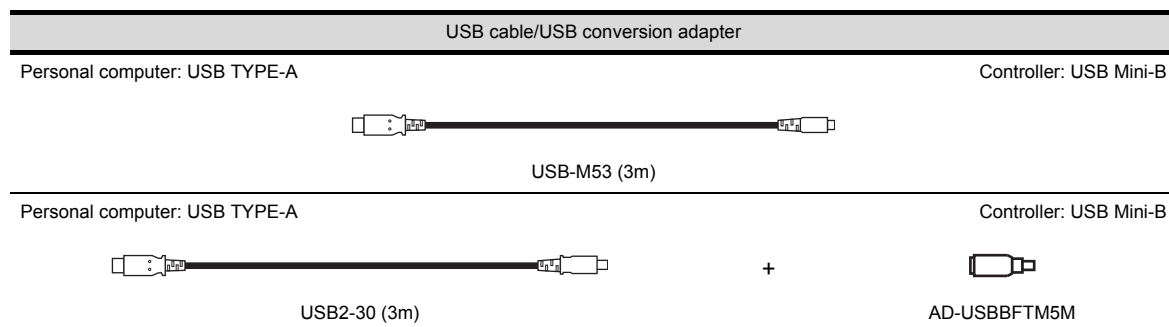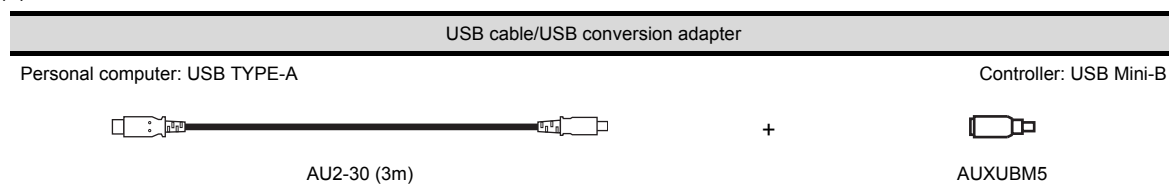DEVICE MONITOR

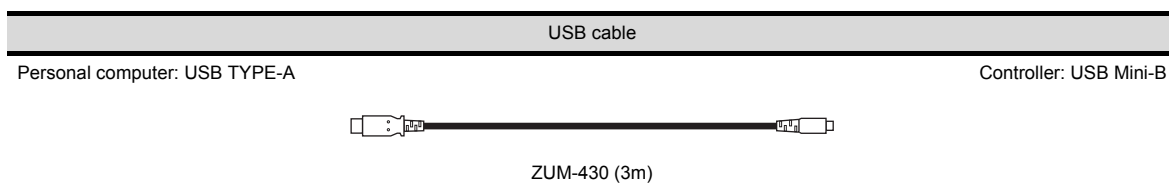8

TROUBLE SHOOTING

■ Using product manufactured by ELECOM CO., LTD. (Recommended Product)

• Connection via USB cable

For users employing GOT1000 series simulator

(a) With Universal model QCPU

USB cable/USB conversion adapter
Personal computer: USB TYPE-A   Controller: USB Mini-B
USB-M53 (3m)
Personal computer: USB TYPE-A   Controller: USB Mini-B
USB2-30 (3m)   +   AD-USBBFTM5M

(b) With Basic model QCPU, High Performance model QCPU, Process CPU, Redundant CPU

USB cable
Personal computer: USB TYPE-A   Controller: USB TYPE-B
USB2-30 (3m)

■ Using product manufactured by BUFFALO KOKUYO SUPPLY INC. (Recommended Product)

• Connection via USB cable

For users employing GOT1000 series simulator

(a) With Universal model QCPU

USB cable/USB conversion adapter
Personal computer: USB TYPE-A   Controller: USB Mini-B
AU2-30 (3m)   +   AUXUBM5

(b) With Basic model QCPU, High Performance model QCPU, Process CPU, Redundant CPU

USB cable
Personal computer: USB TYPE-A   Controller: USB TYPE-B
AU2-30 (3m)

■ Using product manufactured by LOAS CO., LTD. (Recommended Product)

• Connection via USB cable

For users employing GOT1000 series simulator

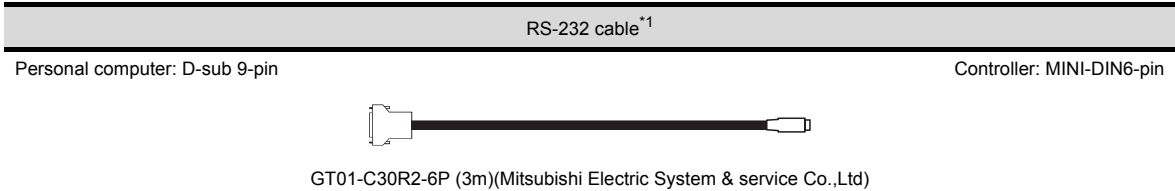• With Universal model QCPU

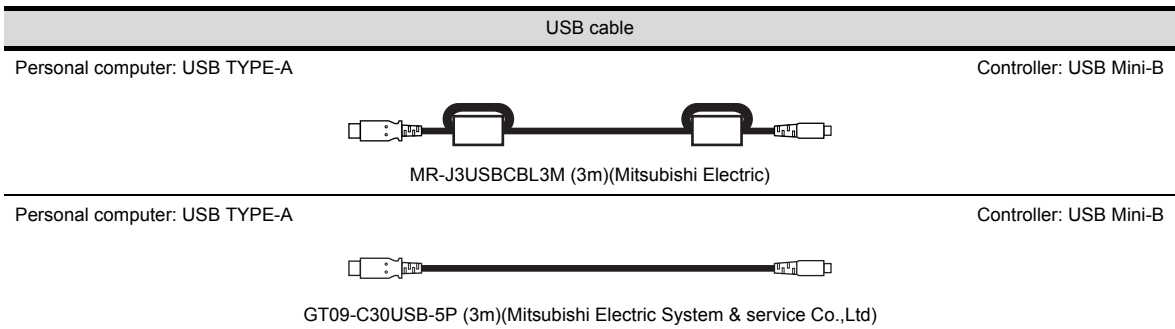| USB cable |
|---|
| Personal computer: USB TYPE-A   Controller: USB Mini-B |
| ZUM-430 (3m) |

2.4.3　Connecting to LCPU

■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.
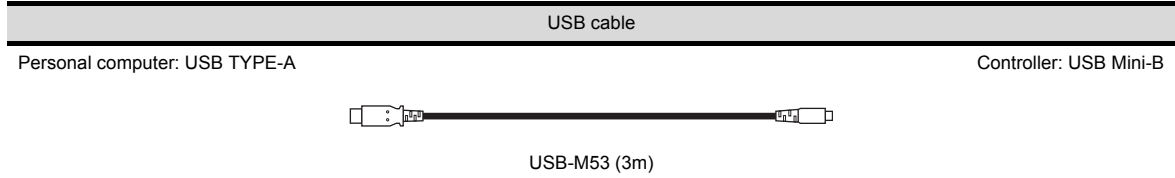
(1)　At the connection with the RS-232 cable

RS-232 cable[*1]
Personal computer: D-sub 9-pin   Controller: MINI-DIN6-pin

GT01-C30R2-6P (3m)(Mitsubishi Electric System & service Co.,Ltd)

　　*1　　The adapter L6ADP-R2 is required for the direct CPU connection.

(2)　Connection via USB cable

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

MR-J3USBCBL3M (3m)(Mitsubishi Electric)

Personal computer: USB TYPE-A   Controller: USB Mini-B

GT09-C30USB-5P (3m)(Mitsubishi Electric System & service Co.,Ltd)

■ Using product manufactured by ELECOM CO., LTD. (Recommended Product)

Connection via USB cable

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

USB-M53 (3m)

■ Using product manufactured by LOAS CO., LTD. (Recommended Product)

Connection via USB cable

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

ZUM-430 (3m)

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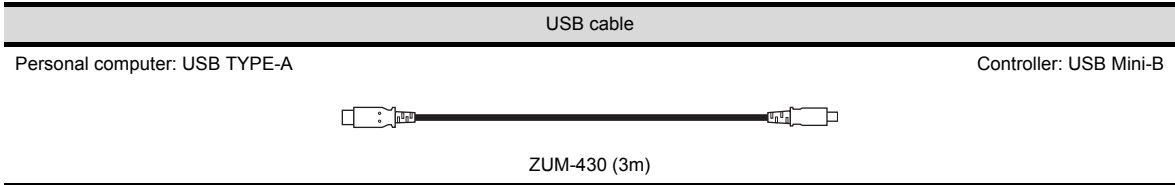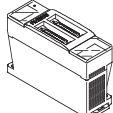
2.4.4 Connecting with QnACPU, ACPU, motion controller CPU (A series), MELSEC iQ-F, or FXCPU

■ **Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.**

(1) At the connection with the RS-232 cable/RS-422 cable

PC side (RS-232 cable)	RS-232/RS-422 Converter[3]	PLC CPU Side(RS-422 cable)
F2-232CAB[1][2] (Mitsubishi Electric) (For the 25-pin D-sub connector of the PC side)	FX-232AW (Mitsubishi Electric)	FX-422CAB(0.3m) (Mitsubishi Electric), FX-422CAB-150(1.5m) (Mitsubishi Electric) (For connecting to QnACPU, ACPU, motion controller CPU (A series), FX1CPU, FX2CPU, or FX2CCPU)
F2-232CAB-1[2] (Mitsubishi Electric) (For the 9-pin D-sub connector of the PC side)	FX-232AWC (Mitsubishi Electric)	
AC30N2A[1] (Mitsubishi Electric) (For the 25-pin D-sub connector of the PC side)	FX-232AWC-H (FX series only) (Mitsubishi Electric)	(For connecting to FX0/FX0S/FX0N/FX1S/FX1N/FX2N/ FX1NC/FX2NC/FX3G/FX3GC/FX3U/FX3UC/FX3SCPU)

*1 When using a DOS/V PC, a straight cable for conversion between 9-pin D-sub and 25-pin D-sub is required separately.

*2 How to distinguish products compatible with QnACPU, ACPU.
Check the model name label of the cable.

Incompatible products   Compatible products (with indication of F/FX/A)

F2-232CAB Y990C*****	→	F2-232CAB(F/FX/A) Y990C*****
F2-232CAB-1 Y990C*****	→	F2-232CAB-1(F/FX/A) Y990C*****

*3 When connecting the FX-232AWC-H to the FX3UC/FX3UCPU, transmission speed of 9600/19200/38400/57600/115200 bps is available.
When connecting the FX-232AWC or FX-232AW, either of transmission speed of 9600/19200bps is available.

- For users employing GOT1000 series simulator
  The following cables are available to connect the function extension board or special adapter of MELSEC iQ-F or FXCPU.

RS-232 cable*1*2

GT01-C30R2-9S (Mitsubishi Electric)

GT01-C30R2-25P (Mitsubishi Electric)
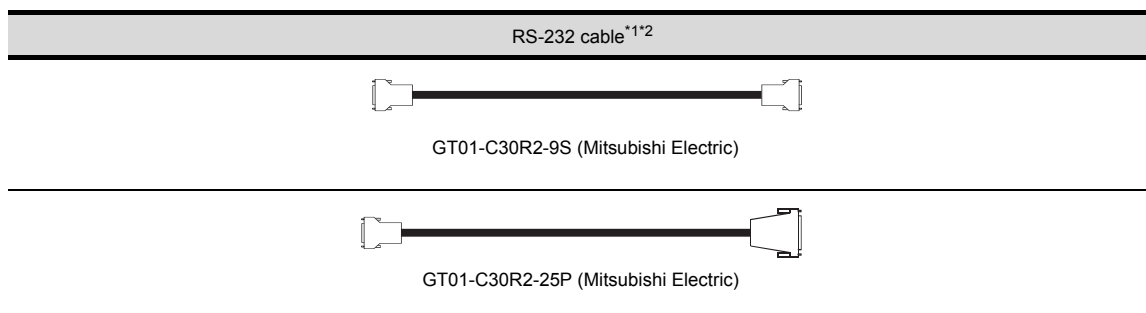
*1   The following system configurations are available in the GT01-C30R2-9S.

Model name	Function extension board	Communication special adapter	PC side connector
FX5U	FX5U-232-BD	-	9-pin D-sub
FX5U, FX5UC	-	FX5-232ADP	9-pin D-sub
FX3U series, FX3UC series (FX3UC-□□-LT)	FX3U-232-BD	-	9-pin D-sub
	FX3U-232-BD, FX3U-485-BD, FX3U-422-BD, FX3U-USB-BD, FX3U-CNV-BD	FX3U-232ADP, FX3U-232ADP-MB	
FX3UC series (FX3UC-□□/D, FX3UC-□□/DSS)	-	FX3U-232ADP, FX3U-232ADP-MB	9-pin D-sub
FX3S series	FX3G-232-BD	-	9-pin D-sub
	-	FX3S-CNV-ADP + FX3U-232ADP	
FX3G series	FX3G-232-BD	-	9-pin D-sub
	FX3G-CNV-BD	FX3U-232ADP, FX3U-232ADP-MB	
FX3GC series	-	FX3U-232ADP, FX3U-232ADP-MB	9-pin D-sub
FX3S series	FX3S-CNV-ADP	FX3U-232ADP, FX3U-232ADP-MB	9-pin D-sub
FX2N series	FX2N-232-BD	-	9-pin D-sub
	FX2N-CNV-BD	FX2NC-232ADP	
FX1NC, FX2NC series	-	FX2NC-232ADP	9-pin D-sub
FX1S, FX1N series	FX1N-232-BD	-	9-pin D-sub
	FX1N-CNV-BD	FX2NC-232ADP	

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Model name	Function extension board	Communication special adapter	PC side connector
FX3U series, FX3UC series (FX3UC-□□-LT)	FX3U-232-BD	-	25-pin D-sub
	FX3U-232-BD, FX3U-485-BD, FX3U-422-BD, FX3U-USB-BD, FX3U-CNV-BD	FX3U-232ADP, FX3U-232ADP-MB	
FX3UC series (FX3UC-□□/D, FX3UC-□□/DSS)	-	FX3U-232ADP, FX3U-232ADP-MB	25-pin D-sub
FX3S series	FX3G-232-BD	-	25-pin D-sub
	-	FX3S-CNV-ADP + FX3U-232ADP	
FX3G series	FX3G-232-BD	-	25-pin D-sub
	FX3G-CNV-BD	FX3U-232ADP, FX3U-232ADP-MB	
FX3GC series	-	FX3U-232ADP, FX3U-232ADP-MB	25-pin D-sub
FX3S series	FX3S-CNV-ADP	FX3U-232ADP, FX3U-232ADP-MB	25-pin D-sub
FX2N series	FX2N-CNV-BD	FX0N-232ADP	9-pin D-sub
	FX2N-232-BD	-	25-pin D-sub
	FX2N-CNV-BD	FX2NC-232ADP	
FX1NC, FX2NC series	-	FX0N-232ADP	9-pin D-sub
	-	FX2NC-232ADP	25-pin D-sub
FX1S, FX1N series	FX1N-CNV-BD	FX0N-232ADP	9-pin D-sub
	FX1N-232-BD	-	25-pin D-sub
	FX1N-CNV-BD	FX2NC-232ADP	

(2) Connection via USB cable

For connection to the FX3G or FX3GC series built-in USB port, the following cables are available.

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

MR-J3USBCBL3M (3m) (Mitsubishi Electric)

Personal computer: USB TYPE-A   Controller: USB Mini-B

GT09-C30USB-5P (3m) (Mitsubishi Electric System & service Co.,Ltd)
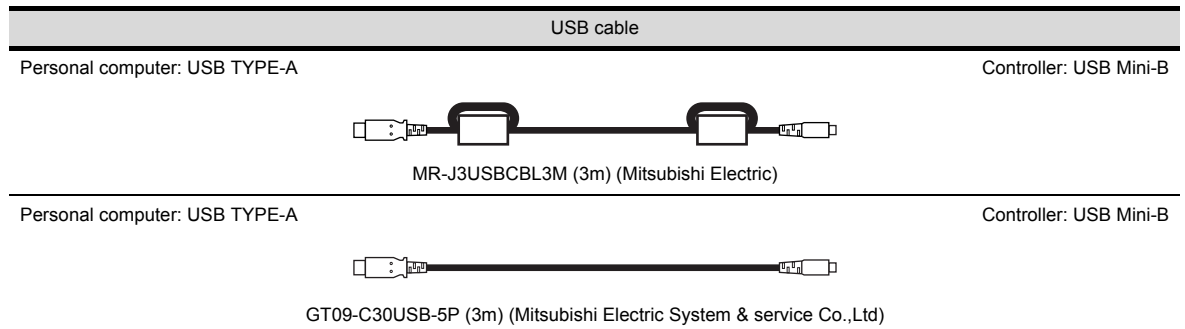
Refer to the following manual for the available cables other than the above.

☞ FX3U SERIES USER'S MANUAL - Hardware Edition

POINT

(1) Specifications and precautions for converters/cables
Refer to the following manual for the specifications and precautions for converters/cables.
☞ The manual for each product

(2) Inserting and removing a converter/cable that receives electricity from the 5VDC power
Turn the PLC CPU side power OFF before inserting and removing the converter/cable that receives electricity from the PLC CPU side 5VDC power.

(3) Inserting and removing a converter/cable that does not receive electricity from the 5VDC power
Refer to the following procedures when inserting and removing the peripheral device or cable that does not receive electricity from the PLC CPU side 5VDC power (receives from an external power supply).
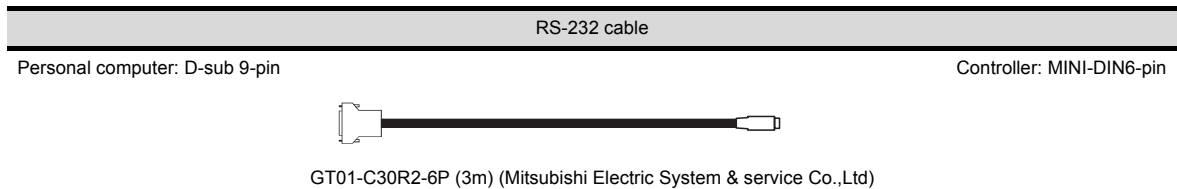
1. Make sure to touch the static discharge wrist strap or grounded metal before operation and discharge electrostatic from cables, human body or others.

2. Turn off the PC.

3. Turn off the converter.
Ground the FG terminal if provided.

4. Insert and remove the converter/cable connected to the PC and PLC.

5. Turn on the converter.

6. Turn on the PC.

7. Start the software package.

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2.4.5 Connecting to MELSECNET/H remote I/O station
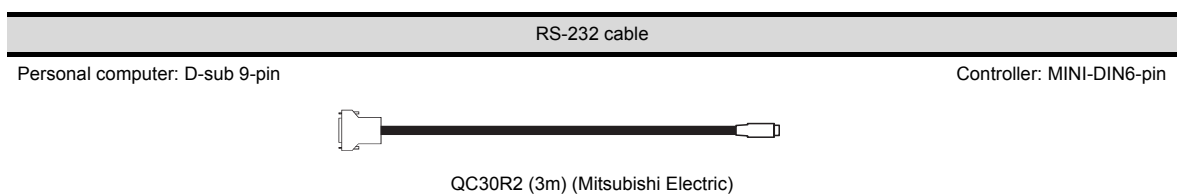
■ **Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.**

At the connection with the RS-232 cable

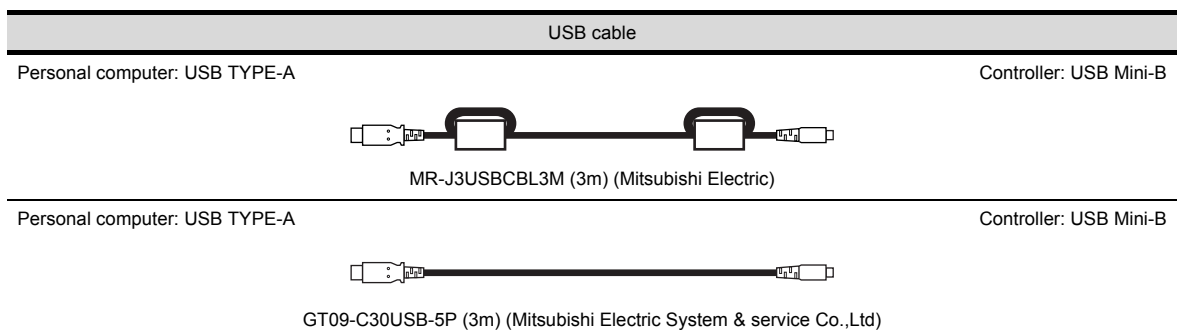**(1) For users employing GOT1000 series simulator**

RS-232 cable
Personal computer: D-sub 9-pin   Controller: MINI-DIN6-pin

GT01-C30R2-6P (3m) (Mitsubishi Electric System & service Co.,Ltd)

(2) For users employing GOT-A900 series simulator

RS-232 cable
Personal computer: D-sub 9-pin   Controller: MINI-DIN6-pin

QC30R2 (3m) (Mitsubishi Electric)

2.4.6 Connecting to CC-Link IE Field Network head module
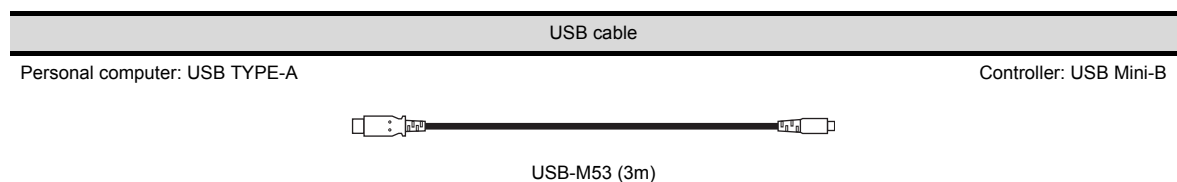
■ **Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.**

Connection via USB cable

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

MR-J3USBCBL3M (3m) (Mitsubishi Electric)

Personal computer: USB TYPE-A   Controller: USB Mini-B

GT09-C30USB-5P (3m) (Mitsubishi Electric System & service Co.,Ltd)

■ **Using product manufactured by ELECOM CO., LTD. (Recommended Product)**

Connection via USB cable

USB cable
Personal computer: USB TYPE-A   Controller: USB Mini-B

USB-M53 (3m)

■ **Using product manufactured by LOAS CO., LTD. (Recommended Product)**

Connection via USB cable

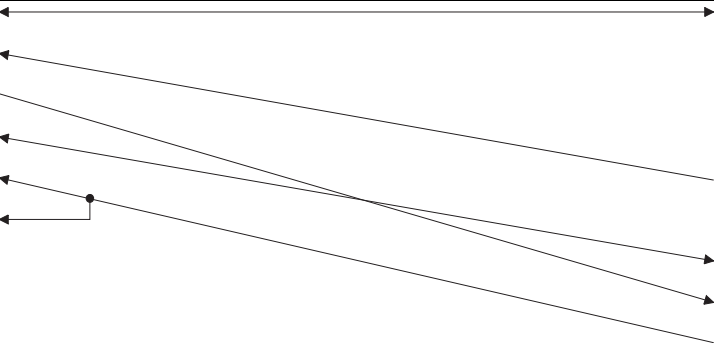| USB cable |
|---|
| Personal computer: USB A TYPE-A   Controller: USB Mini-B |

ZUM-430 (3m)
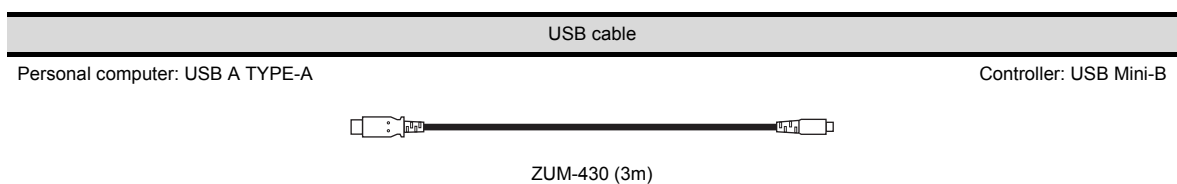
2.4.7 Connecting to MELDAS C6/C64

The conversion cable for connecting the GT Simulator3 and MELDAS C6/C64 is required to be created by the user.
The following describes the connection diagram, connector and others for each cable.

■ Connection diagram

Personal Computer(GT Simulator2) Side	Cable Connection and Signal Direction	MELDAS C6/C64(TERMINAL) Side	
Signal name		Pin number	Signal name
GND		1	GND
RD(RXD)			-
SD(TXD)			-
GND			-
DR(DSR)		6	SD(TXD)
CS(CTS)			-
		11	GND
		16	RD(RXD)
		18	ER(DTR)

■ Connector specifications

(1) PC side connector
Use the connector compatible with the PC side.

(2) MELDAS C6/C64 side connector
Use the connector compatible with MELDAS C6/C64 side.
For details, refer to the following manual.
☞ User's Manual for the MELDAS C6/C64

■ Precautions for creating cables

The length of the conversion cable must be 15m or shorter.

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2.4.8 Connecting to Omron PLC CPU

■ **When using a product made in Mitsubishi Electric System Service Co., Ltd.**

RS-232 cable

GT09-C30R20101-9P(For the 9-pin D-sub connector of the PC side)
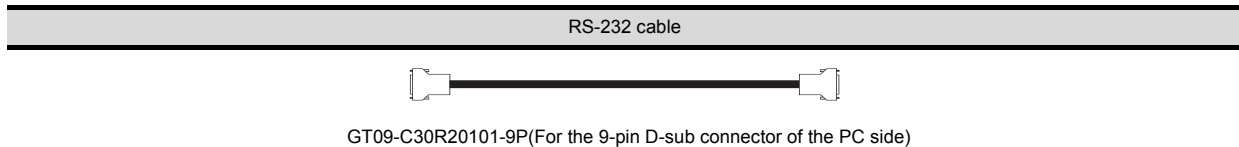
■ **When using an RS-232 cable prepared by user**

The following describes the connection diagram, connector and others for each cable.

(1) Connection diagram

PC (GT Simulator2) side	Cable connection and signal direction	Omron products side	
Signal name		Pin No.	Signal name
CD		1	FG
RD(RXD)		2	SD
SD(TXD)		3	RD
ER(DTR)		4	RS
SG		5	CS
DR(DSR)		6	-
RS(RTS)		7	FR
CS(CTS)		8	ER
-		9	SG

(2) Connector specifications

(a) PC side connector
    Use the connector compatible with the PC side.

(b) Omron PLC CPU side connector
    Use the connector compatible with Omron PLC CPU side.
    For details, refer to the following manual.
    ☞ User's Manual for Omron PLC CPU

(3) Precautions for creating cables
    The length of the cable must be 15m or less.

3. SPECIFICATIONS

3.1 GOT that Can Be Simulated

The following table indicates the GOT that can be simulated on GT Simulator3.
Any GOT other than the below cannot be simulated.

■ For GOT1000 series (GT16) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT16**-X	1024 × 768	High Color (16-bits)	57M bytes
GT16**-S	800 × 600		
GT16**-V [*2]	640 × 480		
GT165*-V			

■ For GOT1000 series (GT15) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT15**-X	1024 × 768	High Color (16-bits)	57M bytes
GT15**-S	800 × 600		
GT15**-V [*3]	640 × 480		
GT155*-V			
GT15**-Q	320 × 240		

■ For GOT1000 series (GT14) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT14**-Q	320 × 240	High Color (16-bits)	9M bytes

■ For GOT1000 series (GT12) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT12**-V	640 × 480	256 colors	3M bytes

■ For GOT1000 series (GT11) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT11**-Q [*4]	320 × 240	256 colors	3M bytes

■ For GOT1000 series (GT10) simulator

Name	Resolution (dots)	Display color	Memory capacity [*1]
GT10**-Q	320 × 240	256 colors	3M bytes
GT1030	288 × 96	Monochrome	
GT1020	160 × 64		

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■ For GOT-A900 series simulator

Name	Resolution (dots)	Display color	Memory capacity [1]
GT SoftGOT2	1280 × 1024	256 colors	33M bytes
	1024 × 768		
	800 × 600		
	640 × 480		
A985GOT	800 × 600		9M bytes
A97*GOT	640 × 480		
A960GOT	640 × 480		
A956WGOT	480 × 234		
A95*GOT[5]	320 × 240		3M bytes

*1 The memory of GOT user area to store project data and Option OS, etc.
*2 Incompatible with the grip switch, the operation switch, and the emergency stop switch of the GT16 Handy GOT.
*3 When simulating GT15**-VN, select the GT15**-V.
*4 Incompatible with the grip switch, the operation switch, and the emergency stop switch of the GT11 Handy GOT.
*5 Incompatible with the grip switch, the operation switch, and the emergency stop switch of the A950 Handy GOT.

POINT

Display color
The number of display colors for the actual GOT and for GT Simulator3 may differ according to the model.
Check the actual display colors for the GOT with [Preview] on GT Designer3.

3.2 Functions that cannot be simulated

The following functions cannot be used on GT Simulator3.

■ For GOT1000 series (GT16) simulator

Function category			Function name	
Utility functions[*1]	GOT setup	GOT main unit setup	Time setting,	Transparent mode,
			Clean,	Video/RGB setting ,
			Multimedia setting	
		Display	Screen save time,	Screen save backlight,
			Battery alarm display,	Brightness,contrast
		Operation	Key sensitivity,	Key reaction speed,
			Touch panel calibration,	Touch detection mode
		GOT maintenance function	Maintenance timing setting,	Addtion times reset,
			GOT start time,	Behavior of duplicate IPs
	Communication setting		Communication setting	
	Debug		Debug	
	Self check		Self check	
	Data control	Data control	Data control	
		OS/project information	OS/project information	
Extension function[*2]			System monitor function,	Barcode function,
			Video display function[*3],	RGB display function,
			Multimedia function,	External I/O function,
			Operation panel function,	Backup/restore function,
			CNC data I/O function,	CNC manufacturing program editor function,
			RFID function	Operator authentication (External authentication/fingerprint authentication) function,
			Remote personal computer operation,	USB mouse/keyboard function,
			MELSEC-L troubleshooting function,	SoftGOT-GOT link function,
			Log viewer function,	Motion program (SV43) edit,
			Motion program (SV43) I/O,	VNC® server function
Option functions[*2]			Ladder monitor function[*4],	List editor for MELSEC-A[*4],
			List editor for MELSEC-FX[*4],	Intelligent module monitor function,
			Network monitor function,	Q motion monitor function,
			Servo amplifier monitor function,	CNC monitor function,
			Gateway function,	MES interface function,
			SFC monitor function,	Ladder editor function,
			Motion SFC monitor function	
Others			FA transparent functions,	Human sensor function,
			RGB output function	

*1   Refer to the following manual for details of Utility function.

    ☞ GT16 User's Manual (Basic Utility)

*2   Refer to the following manual for details of Extension and Option functions.

    ☞ GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3

*3   Video windows are displayed in blue color. (Video images are not displayed.)
A window to which transparent processing is applied or a window displayed on an overlap window is not displayed.
The resolution of video windows cannot be changed. (Fixed to 640 × 480 dots)

*4   The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.

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POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.

The following table indicates whether they are operative or not on GT Simulator3.

Item		Operability on GT Simulator3
Display	Language	○
	Opening screen time	○
	Screen save time	×
	Screen save backlight	×
	Battery alarm display	×
	Brightness, contrast	×
Operation	Buzzer volume	○
	Window move buzzer	○
	Security setting	○
	Utility call key	○*1
	Key sensitivity	×
	Key reaction speed	×
	Touch panel calibration	×
	Touch Detection Mode	×
Transparent mode settings		×

○: Operable ×: Inoperable

*1   When using the following basic software, there is no differentiation in [LONG] and [SHORT] of Buzzer Volume.
The same length of Buzzer Volume sounds.

■ For GOT1000 series (GT15) simulator

Function category	Function name	
Utility functions[*1]	Communication Settings,	Time setting & display,
	Debug & self check[*5],	Maintenance timming setting,
	Program/data control[*5],	Screen clean up,
	Addtion times reset	
Extension function[*2]	System monitor function,	Barcode function,
	Video display function[*3],	RGB display function,
	External I/O function,	Operation panel function,
	Backup/restore function,	CNC data I/O function,
	RFID function,	Operator authentication (External authentication/ fingerprint authentication),
	Remote personal computer operation,	SoftGOT-GOT link function
Option functions[*2]	Ladder monitor function[*4],	List editor for MELSEC-A[*4],
	List editor for MELSEC-FX[*4],	Intelligent module monitor function,
	Network monitor function,	Q motion monitor function,
	Servo amplifier monitor function,	CNC monitor function,
	Gateway function,	MES interface function,
	SFC monitor function,	Ladder editor function,
	Motion SFC monitor function	
Others	FA transparent functions,	Human sensor function,
	RGB output function	

*1 Refer to the following manual for details of Utility function.

☞ GT15 User's Manual

*2 Refer to the following manual for details of Extension and Option functions.

☞ GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3

*3 Video windows are displayed in blue color. (Video images are not displayed.)
    A window to which transparent processing is applied or a window displayed on an overlap window is not displayed.
    The resolution of video windows cannot be changed. (Fixed to 640 × 480 dots)

*4 The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.

*5 With special function switches, the logging information, advanced recipe information, operation log information, and operator info. management can be used.

☞ GT Designer3 Version1 Screen Design Manual (Functions)

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POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.
The following table indicates whether they are operative or not on GT Simulator3.

Item		Operability on GT Simulator3
Display	Language	○
	Opening screen time	○
	Screen save time	×
	Screen save backlight	×
	Battery alarm display	×
	Brightness, contrast	×
Operation	Buzzer volume	○
	Window move buzzer	○
	Security setting	○
	Utility call key	○*1
	Key sensitivity	×
	Key reaction speed	×
	Touch panel calibration*2	×
	Touch Detection Mode	×
Q/QnA ladder monitor		×
Transparent mode settings		×
Video/RGB Setting*3		×
Backup/restoration setting		×

○: Operable × : Inoperable

*1   When two points are set for the utility call key, click either one point, and then the utility screen is displayed.
      Even though [Pressing time] is set, the function does not operate.
*2   Setting item only for GT15**-X
*3   Setting item only for GT15**-S

■ For GOT1000 series (GT14) simulator

Function category	Function name	
Utility functions[*1]	Communication Settings,	Time setting & display,
	Debug & self check,	Program/data control[*4],
	Screen clean up	
Extension function[*2]	System monitor function,	Barcode function,
	Backup/restore function,	RFID function,
	Operator authentication (External authentication) function	
Option functions[*2]	List editor for MELSEC-A[*3],	List editor for MELSEC-FX[*3],
	Gateway function	
Others	FA transparent functions,	

*1   Refer to the following manual for details of Utility function.

☞   GT14 User's Manual
*2   Refer to the following manual for details of Extension and Option functions.

☞   GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3
*3   The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.
*4   With special function switches, the logging information, advanced recipe information, operation log information, and operator info. management can be used.

☞   GT Designer3 Version1 Screen Design Manual (Functions)

POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.
The following table indicates whether they are operative or not on GT Simulator3.

Item		Operability on GT Simulator3
Display	Language	○
	Opening screen time	○
	Screen save time	×
	Screen save backlight	×
	Brightness, contrast	×
Operation	Buzzer volume	○
	Window move buzzer	○
	Security setting	○
	Utility call key	○[*1]
	Key sensitivity	×
	Key reaction speed	×
	Touch panel calibration[*2]	×
Transparent mode settings		×
Backup/restoration setting		×

○: Operable ×: Inoperable

*1   [Pressing time] is set, the function does not operate.

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■ For GOT1000 series (GT12) simulator

Function category	Function name	
Utility functions[*1]	Communication Settings, Program/data control, Screen clean up	Time setting & display, Debug & self check,
Extension function[*2]	System monitor function, RFID function	Barcode function,
Option functions[*2]	List editor for MELSEC-A[*3],	List editor for MELSEC-FX[*3]
Others	FA transparent functions	

*1   Refer to the following manual for details of Utility function.

     ☞ GT12 User's Manual

*2   Refer to the following manual for details of Extension and Option functions.

     ☞ GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3

*3   The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.

POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.
The following table indicates whether they are operative or not on the GT Simulator3.

Item		Operability on GT Simulator3
Display	Language	○
	Opening screen time	○
	Screen save time	×
	Screen save backlight	×
	Battery alarm display	×
	Brightness, contrast	×
Operation	Buzzer volume	○
	Window move buzzer	○
	Security setting	○
	Utility call key	○ [*1]
	Key sensitivity	×
	Key reaction speed	×
Handy GOT	Grip Switch LED settings	×

○: Operable × : Inoperable

*1   When two points are set for the utility call key, click either one point, and then the utility screen is displayed. Even though [Pressing time] is set, the function does not operate.

■ For GOT1000 series (GT11) simulator

Function category	Function name	
Utility functions[*1]	Communication Settings, Program/data control, Screen clean up	Time setting & display, Debug & self check,
Extension function[*2]	System monitor function, RFID function	Barcode function,
Option functions[*2]	List editor for MELSEC-A[*3],	List editor for MELSEC-FX[*3]
Others	FA transparent functions	

*1   Refer to the following manual for details of Utility function.

⮕ GT11 User's Manual

*2   Refer to the following manual for details of Extension and Option functions.

⮕ GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3

*3   The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.

POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.
The following table indicates whether they are operative or not on the GT Simulator3.

Item		Operability on GT Simulator3
Display	Language	○
	Opening screen time	○
	Screen save time	×
	Screen save backlight	×
	Battery alarm display	×
	Brightness, contrast	×
Operation	Buzzer volume	○
	Window move buzzer	○
	Security setting	○
	Utility call key	○ [*1]
	Key sensitivity	×
	Key reaction speed	×
Handy GOT	Grip Switch LED settings	×

○: Operable ×: Inoperable

*1   When two points are set for the utility call key, click either one point, and then the utility screen is displayed.
Even though [Pressing time] is set, the function does not operate.

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■ For GOT1000 series (GT10) simulator

Function category	Function name	
Utility functions[*1]	Communication Settings, Data control, Screen clean up	Time setting & display, Debug,
Extension function	Device monitor function,	Barcode function
Option functions[*2]	List editor for MELSEC-A[*3],	List editor for MELSEC-FX[*3]
Others	FA transparent functions	

*1   Refer to the following manual for details of Utility function.

　　　☞ GT10 User's Manual

*2   Refer to the following manual for details of Option functions.

　　　☞ GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3

*3   The equivalent function is available when using the GT Simulator3 and GX Developer on the same PC.

POINT

[GOT Setup] of Utility function

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.

The following table indicates whether they are operative or not on the GT Simulator3.

Item		Operability on GT Simulator3
Display	Screen save	×
	Brightness, contrast	×
	Opening time	○
Operation	Buzzer setting	○
	Calibration	×
	Key reaction	○
	Clock setting	×
	Security	○
	Utility call	○[*1]

○: Operable ×: Inoperable

*1   When two points are set for the utility call key, click either one point, and then the utility screen is displayed.
　　　Even though [Pressing time] is set, the function does not operate.

■ For GOT-A900 series simulator

Function category	Function name	
Object function[*1]	Report function[*3],	Hard copy function[*3*4],
	Test function,	Barcode function
Utility function	System monitor,	Network monitor,
	List edit,	Ladder monitor,
	Motion/CNC monitor,	Special module monitor,
	Servo amplifier monitor,	Memory information,
	Screen & OS copy,	Clock,
	Screen cleanup,	Self-test,
	Brightness/contrast adjustment	
Extension function[*2]	System monitor function,	External I/O function,
	Operation Panel function	
Option function[*2]	Ladder monitor function[*5],	Special unit monitor function,
	List editor function[*5],	Network monitor function[*5],
	Motion monitor function,	Servo amplifier monitor function,
	CNC monitor function	
Other function	Transparent function,	Human sensor function,
	Brightness adjustment function,	Sound function,
	VIDEO/RBG display function[*6],	Gateway function,
	Font change function,	System dialog language switching function

*1　Refer to the following manual for details of object function.

　　☞ GT Designer2 Version□ Reference Manual

*2　Refer to the following manual for details of Extension and Option functions.

　　☞ GOT-A900 Series Operating Manual
　　　(GT Works2 Version□/GT Designer2 Version□ compatible Extended • Option Functions Manual)

*3　This function can be used when simulating GT SoftGOT2.
　　The data is stored into each folder in the GSS2 created in the installation destination folder.
　　[Rev./Norm], [Writing Notification Device], and [Writing Error Notification Device] of the hard copy function cannot be simulated.
　　The system information related to the hard copy function also cannot be simulated.

*4　By using the GT Simulator3 snapshot and printing functions equivalent functions become possible.

　　☞ • 6.1 Snap Shot
　　　• 6.2 Print

*5　By using GT Simulator3 and GX Developer together on the personal computer, equivalent functions become possible.

*6　Video windows are displayed in blue color. (Video images are not displayed.)
　　A window to which transparent processing is applied or a window displayed on an overlap window is not displayed.
　　The RGB screen cannot be displayed.

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POINT

(1) **[Main Menu] display of Utility function**

The 2-point press is not allowed for [Menu call key].

To display [Main Menu], make [Special Function Switch (Utility)] setting.

Refer to the following manual for the setting method.

☞ GT Designer2 Version□ Reference Manual

(2) **[GOT Setup] of Utility function**

The GT Simulator3 can set up [GOT setup], but some functions are inoperative.

The following table indicates whether they are operative or not on GT Simulator3.

Item	Operability on GT Simulator3
Buzzer volume	○
Outside speaker	○
Screen save time	×
Screen save light	×
Language	○

○: Operable ×: Inoperable

3.3 Precautions

3.3.1 Precautions for using GT Simulator3

(1) In the case of simulating project data of GOT-F900 series
When simulating project data of GOT-F900 series
The simulation is disabled by changing the [GOT Type] of GT Designer2 to "GOT-A900 series".
However, any incompatible functions with the GOT-A900 series cannot be converted.
When changing [GOT Type], always back up the data.
The functions may not be converted properly when the incompatible functions may not be converted at [GOT Type] changing and [GOT Type] is changed to "GOT-F900 series" again.

(2) Simulating the project data of vertical display type
For GT11, the project data of vertical display type cannot be simulated while display type can be selected.
Perform the simulation after changing [GOT type] of the GT Designer3 to "GT16/GT15".
Note that a function that is not compatible with GT16/GT15 cannot be converted.
When changing [GOT type], be sure to backup data.
If this is not done, the incompatible functions are not be converted when [GOT type] is changed, and these functions cannot be converted correctly when [GOT type] is changed to GT11 again.

(3) The display of the GT Simulator3 and GOT
The display of GT Simulator3 may differ from that of the GOT.
Confirm on the GOT for display of the actual GOT.

(4) Numerical Display
When the [View Format] of [Numerical Display] is set to [Real] and if illegal value is stored, illegal value will be displayed on GT Simulator3. (GOT displays [non].)

(5) Time display
The clock data of the personal computer is used for clock display when simulating GT Simulator3.
(GOT reads and shows the clock data of the PLC CPU.)
GT Simulator3 does not support the daylight saving function. Do not check [Automatically adjust clock for daylight saving changes] on the personal computer.

(6) Hard copy function
[Rev./Norm], [Writing Notification Device], and [Writing Error Notification Device] of the hard copy function cannot be simulated.
The system information related to the hard copy function also cannot be simulated.

(7) Logging, advanced recipe, operation log, operator authentication
The logging information, advanced recipe information, operation log information, and operator info. management cannot be displayed with the utility.
For using the logging information, advanced recipe information, operation log information, and operator info. management, set special function switches.
For special function switches, refer to the following manual.
☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

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(8) Functions in which data are stored to the memory card

When the memory card is set as the file storage destination with objects or option functions, the files will be stored in the hard disc of the PC.

The files of each function are stored in the folder listed below.

(a) For GOT1000 series (GT16) simulator

```
📁 (Work folder) *1
 └─📁 GT1600 ──────────────────────────────── A folder for GT16 is created.
     └─📁 Drive ──────────────────────────── A folder is created in each drive.
         ├─📁 A ──────────────────────────── A: Standard CF card
         │   ├─📁 Folder name setting with GT Designer3 ┐
         │   │                                          ├ Storage folder of each function files
         │   └─📁 G1GssUsr                              ┘
         │       ├─ Print image of hard copy
         │       │     HARDCOPY(.BMP)
         │       └─ Print image of report
         │             [REP+serial number.CSV] files
         │              Example) REP00001(.CSV)
         │                       REP00002(.CSV)
         └─📁 B ──────────────────────────── B: Extended Memory card
             ├─📁 Folder name setting with GT Designer3 ┐
             │                                          ├ Storage folder of each function files
             └─📁 G1GssUsr                              ┘
                 ├─ Print image of hard copy
                 │     HARDCOPY(.BMP)
                 └─ Print image of report
                       [REP+serial number.CSV] files
                        Example) REP00001(.CSV)
                                 REP00002(.CSV)
```

The files shown left are stored to the "G1 GssUsr" folder irrespective of both the folder and file names set with GT Designer3.

The files shown left are stored to the "G1 GssUsr" folder irrespective of both the folder and file names set with GT Designer3.

*1 The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
  The following shows the work folder of each OS.
  • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(b) For GOT1000 series (GT15) simulator

```
📁 (Work folder) *1
├─ 📁 GT1500 ──────────────────────────── A folder for GT15 is created.
│   └─ 📁 Drive ─────────────────────── A folder is created in each drive.
│       ├─ 📁 A ───────────────────── A: Standard CF Card
│       │   ├─ 📁 Folder name setting with GT Designer3 ⎫ Storage folder of each function files
│       │   │                                            ⎭
│       │   └─ 📁 G1GssUsr                               ⎫
│       │       ├─ ‐ ‐ Print image of hard copy           ⎪ The files shown left are stored to the
│       │       │       HARDCOPY(.BMP)                    ⎪ "G1 GssUsr" folder irrespective of both
│       │       └─ ‐ ‐ Print image of report              ⎬ the folder and file names set with
│       │              [REP+serial number.CSV] files     ⎪ GT Designer3.
│       │              Example) REP00001(.CSV)            ⎪
│       │                       REP00002(.CSV)            ⎭
│       └─ 📁 B ───────────────────── B: Extended Memory Card
│           ├─ 📁 Folder name setting with GT Designer3 ⎫ Storage folder of each function files
│           │                                            ⎭
│           └─ 📁 G1GssUsr                               ⎫
│               ├─ ‐ ‐ Print image of hard copy           ⎪ The files shown left are stored to the
│               │       HARDCOPY(.BMP)                    ⎪ "G1 GssUsr" folder irrespective of both
│               └─ ‐ ‐ Print image of report              ⎬ the folder and file names set with
│                      [REP+serial number.CSV] files     ⎪ GT Designer3.
│                      Example) REP00001(.CSV)            ⎪
│                               REP00002(.CSV)            ⎭
```

*1   The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
      The following shows the work folder of each OS.
      • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(c) For GOT1000 series (GT14) simulator

```
📁 (Work folder) *1
└─ 📁 GT1400 ──────────────────────────── A folder for GT14 is created.
    └─ 📁 Drive ─────────────────────── A folder is created in each drive.
        ├─ 📁 A
        │   └─ 📁 Folder name setting with GT Designer3 ⎫ Storage folder of each function files
        │                                                ⎭
        └─ 📁 D
            └─ 📁 Folder name setting with GT Designer3 ⎫ Storage folder of each function files
                                                         ⎭
```

*1   The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
      The following shows the work folder of each OS.
      • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
      • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

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(d) For GOT1000 series (GT12) simulator

```
📁 (Work folder) *1
 └─ 📁 GT1200
     └─ 📁 Drive
         ├─ 📁 A
         │   └─ 📁 Folder name setting with GT Designer3 (Storage folder of each function files)
         └─ 📁 D
             └─ 📁 Folder name setting with GT Designer3 (Storage folder of each function files)
```

*1   The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
       The following shows the work folder of each OS.
       • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(e) For GOT1000 series (GT11) simulator
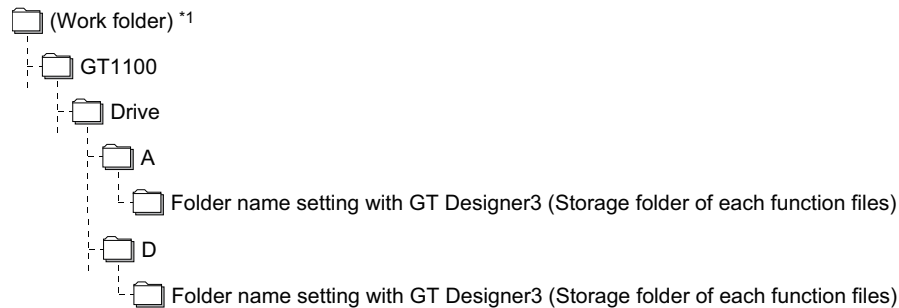
```
📁 (Work folder) *1
 └─ 📁 GT1100
     └─ 📁 Drive
         ├─ 📁 A
         │   └─ 📁 Folder name setting with GT Designer3 (Storage folder of each function files)
         └─ 📁 D
             └─ 📁 Folder name setting with GT Designer3 (Storage folder of each function files)
```

*1   The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
       The following shows the work folder of each OS.
       • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(f) For GOT1000 series (GT10) simulator
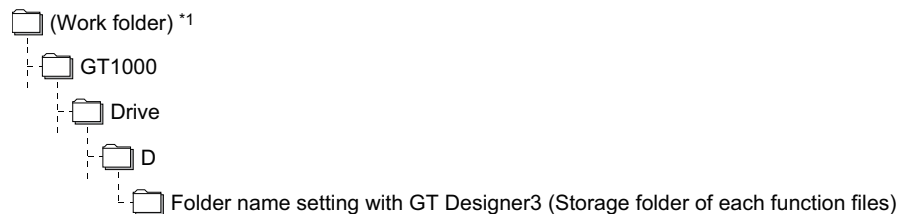
```
📁 (Work folder) *1
 └─ 📁 GT1000
     └─ 📁 Drive
         └─ 📁 D
             └─ 📁 Folder name setting with GT Designer3 (Storage folder of each function files)
```

*1   The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
       The following shows the work folder of each OS.
       • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
       • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

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(g) For GOT-A900 series simulator

The storage location differs according to the setting of [GOT type] in [Simulate] on the Action setup tab of [Option].

📁 C:\Document and Settings\(user name)\Local Settings\Application Data\MITSUBISHI\

   📁 GTD3

      📁 GSS3 (Install folder)

         📁 Memcard ···· Data of alarm history display function and recipe function.   When selecting other than [SoftGOT2] in [GOT type]

         📁 Alarmhst ···· Alarm history function data

         📁 Hardcopy···· Hard copy function data   When selecting [SoftGOT2] in [GOT type]

         📁 Recipe ······ Recipe function data

         📁 Report ······ Report function data
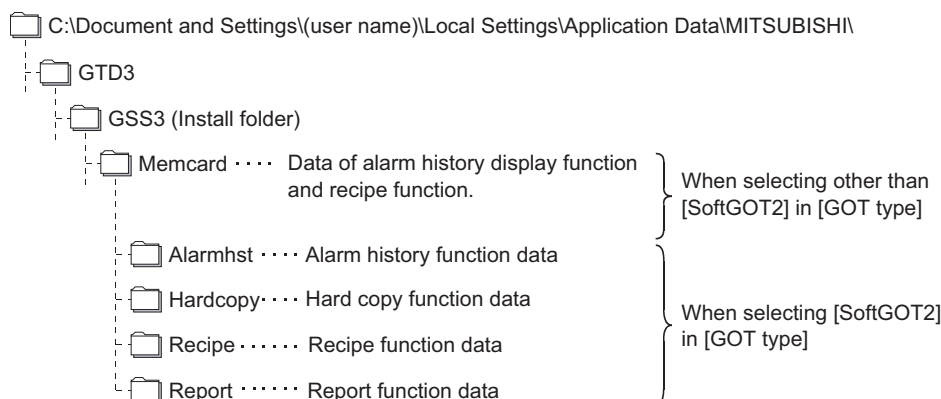
(9) GT Simulator3 Versions

Use the same version of GT Simulator3 as that of GT Designer3 that the project data is created.
When the different version is used, the file may not be opened, the functions and settings may be invalid, or GT Simulator3 does not operate correctly.

☞ Appendix1 Applicable Project Data

(10) Using the project data of GT Designer of the SW3D5C-GOTR-PACK or earlier or those converted by GT Converter

To use the project data of GT Designer2 of the SW3D5C-GOTR-PACK or earlier or those converted by GT Converter, read out and save the project data on the GT Designer of the SW3D5C-GOTR-PACK or later or the GT Designer2.
If using the project data of GT Designer of the SW3D5C-GOTR-PACK or earlier or those converted by GT Converter as it is, the GT Simulator2 may not operate normally.

(11) Printer output

(a) Printer output
Data cannot be output directly to the printer with using the report function or hard copy function, etc.
A print image (TXT/CSV/BMP format file) is saved in the personal computer's hard disk, so output each file to the printer separately.

☞ (8) Functions in which data are stored to the memory card in this section

(b) When using project data which sets frequently the printing trigger to ON
When using project data which frequently sets the printing trigger to ON, check that there is enough free space on the personal computer's hard disk, and delete printing images if necessary.
The file of print images will not be deleted even if GT Simulator3 is exited.

(c) When opening the print image file on the personal computer
If Wordpad or Memopad were used to open saved printing image files (TXT files), the display of the character spacing may be slightly out of line.
If the character spacing is out of line, adjust the character font or font size.

(d) System alarm during hard copying
The system alarm will not be displayed during hard copying.
Refer to the following for troubleshooting for the hard copy function.

☞ 8.1 Troubleshooting for File Save Problems

(12) Sound output

GT16 GT15

The sound output function is executed with the sound function of a personal computer (Sound card) and speakers.
When the personal computer to be used cannot output sounds, the sound output function cannot be used.

(13) Functions in which data are stored in the memory card in advance by the user

(a) For GOT1000 series (GT16/GT15) simulator
When registering BMP/JPEG files for parts or data for document display, store them in the hard disk of the personal computer.
Store each data in the following folders (user-created).
(The drive to be used depends on the specifications and setting of the object.)
For details of each function, refer to the following manual.

☞ GT Designer2 Version☐ Screen Design Manual
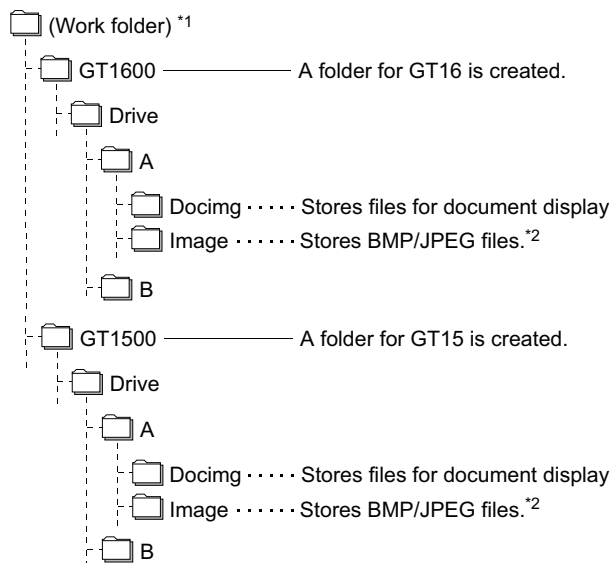
☐ (Work folder) [*1]
├ ☐ GT1600 ──────── A folder for GT16 is created.
│ ├ ☐ Drive
│ │ ├ ☐ A
│ │ │ ├ ☐ Docimg ····· Stores files for document display
│ │ │ ├ ☐ Image ······ Stores BMP/JPEG files. [*2]
│ │ └ ☐ B
├ ☐ GT1500 ──────── A folder for GT15 is created.
│ ├ ☐ Drive
│ │ ├ ☐ A
│ │ │ ├ ☐ Docimg ····· Stores files for document display
│ │ │ ├ ☐ Image ······ Stores BMP/JPEG files. [*2]
│ │ └ ☐ B

*1 The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed.
The following shows the work folder of each OS.
• Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
• Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
• Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
• Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
• Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3

*2 Folder can be any name.
For details on how to use BMP/JPEG file, refer to the following manual.

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

(b) For GOT-A900 series simulator
When registering BMP files for parts, save in the personal computer's harad disk.
Store the BMP files in Image folder below (generated automatically).
Refer to the following manual for BMP files for parts.

☞ GT Designer2 Version☐ Reference Manual

☐ MELSOFT
├ ☐ GTD3
│ ├ ☐ GSS2 (Install folder)
│ │ ├ ☐ Memcard
│ │ │ ├ ☐ Image ····· Store BMP files

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(14) When connecting to FXCPU
For setting the odd point of [Counter (current value) (c)] (16-bit) to Head Device with recipe function, use the C199 or earlier.

(15) For project data with the multi-channel function applied
Only channel1 can be simulated.
Devices other than channel1 are ignored.
To monitor a device other than channel1, change the channel to be debugged to channel1 by selecting [Tools] → [Batch Edit] → [Replace CH No.] from the menu.

Example) To simulate channel2 when using channel1 and channel2

1. Batch change from channel1 to channel3.

2. Batch change from channel to channel1.

For batch change of channels, refer to the following manual.

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

(16) Hidden folders display
The [Document and Settings\(User name)\Local Settings] folder (Windows XP) and the [Users\(User name)\AppData\Local] folder (Windows 8, Windows 7, Windows Vista) are hidden folders.
For displaying them, configure the Windows settings.

Example: When using Windows XP
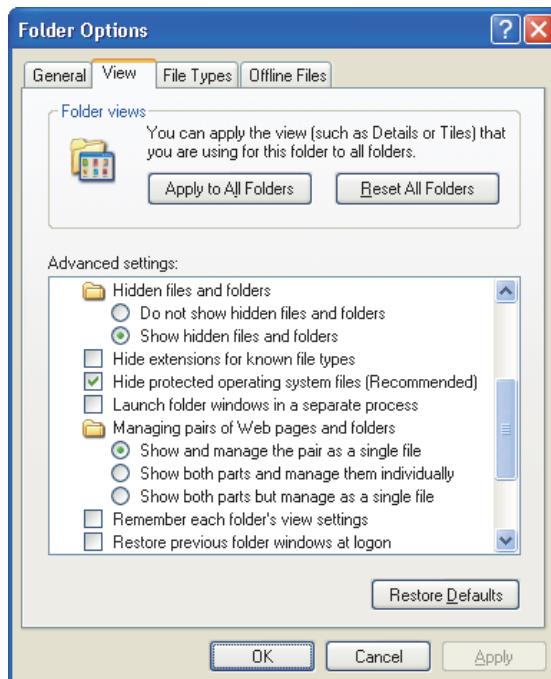
(17) Devices that cannot be monitored by GT Simulator3
The timer set value (TS) and counter set value (CS) of MITSUBISHI PLC cannot be monitored.

(18) Report function
CSV file output in [Real/Cont] is not supported.

3.3.2 Precautions for linking to the controller simulator

(1) When GX Simulator has been started from GT Simulator3
GX Simulator cannot be started for being used on GX Developer.
Exit from GT Simulator3, then restart GX Simulator from GX Developer.

(2) When the controller simulator has been started from GX Developer or others
(a) Using the activated controller simulator
When a controller simulator has been started from GX Developer or others, GT Simulator3 connects to the activated controller simulator.
(b) Exiting the controller simulator
Exit GT Simulator3, and then the controller simulator.
Otherwise, a communication error occurs in GT Simulator3.

(3) When simulating the project data in which a third party PLC is set for the PLC Type.
(a) When simulating with using [Default] of [GX Simulator setup]
By setting the CPU type in [Option] of GT Simulator3 to [MELSEC-A], the simulation in the device ranges of A4UCPU is possible. (☞ 5.3 Option Setting)
Refer to the below for the device ranges that can be simulated.
☞ 3.4 Device Ranges that Can Be Simulated
(b) When simulating with using [GX Developer Project] of [GX Simulator setup]
Specify GX Developer project whose PLC series is [ACPU].
By setting the CPU type in [Option] of GT Simulator3 to [MELSEC-A], the simulation in the device ranges of ACPU (Specified PLC type) is possible. (☞ 5.3 Option Setting)
Refer to the below for the device ranges that can be simulated.
☞ 3.4 Device Ranges that Can Be Simulated

(4) When simulating a project data in which [LCPU] is set for the PLC series, with GX Simulator.
Simulation can be performed in the Q26UDHCPU device range, by setting the CPU type in [Option] of GT Simulator3 to [MELSEC-Q]. (☞ 5.3 Option Setting)
For the device ranges that can be simulated, refer to the following.
☞ 3.4 Device Ranges that Can Be Simulated

(5) When simulating the project data whose PLC type is [FX3UC]
When [GX Simulator setup] in [Option] of GT Simulator3 is set to [GX Developer Project], it is not possible to simulate by specifying a GX Developer project whose PLC type is [FX3UC].
Set [GX Simulator setup] in [Option] of GT Simulator3 to [Default], then simulate in the device ranges of FX2N Series.
(☞ 5.3 Option Setting)

(6) When simulating the buffer memory
By setting [GX Simulator setup] in [Option] of GT Simulator3 to [GX Developer Project] and specifying an I/O-assigned GX Developer project, the buffer memory can be simulated.
(☞ 5.3 Option Setting)
The buffer memory cannot be simulated since I/O assignment has not been made, when [GX Simulator setup] in [Option] of GT Simulator3 is set to [Default].

(7) When simulating a project having a Q redundant setting
To simulate a project having a Q redundant setting, establish a physical connection with a target Redundant CPU instead of GX Simulator.
If you establish connection with GX Simulator to simulate such a project, a system alarm occurs and the project is simulated incorrectly.

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Difference with debug executed by connecting to PLC CPU

Refer to the following manual for the difference with debug executed by connecting to PLC CPU.

☞ GX Simulator Version☐ Operating Manual

3.3.3 Precautions for connecting PLC CPU

(1) When connecting GT Simulator3 to the function extension board of the FXCPU
When connecting GT Simulator3 to the function extension board of the FXCPU, make the following settings on GX Developer.

1. Uncheck [Operate communication setting] on the PLC system (2) tab of [PLC Parameter].

2. Set "0" in special register (D8120) of FXCPU.

3.4 Device Ranges that Can Be Simulated

The following device ranges can be simulated on GT Simulator3.

3.4.1 Connecting to PLC CPU

It is possible to simulate the device ranges that can be monitored on GOT. Refer to the following manual for the device ranges that can be monitored on GOT.

- For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

- For GOT-A900 series simulator

  ☞ GT Designer2 Version□ Reference Manual

POINT

(1) **Devices that cannot be monitored by GT Simulator3**
    Refer to the below for devices that cannot be monitored by GT Simulator3.

    ☞ 3.3.1 Precautions for using GT Simulator3

(2) **PLC CPU that can be simulated on GT Simulator3**
    Refer to the below for PLC CPU that can be simulated on GT Simulator3.

    ☞ 2.3 PLC CPUs that Can Be Simulated

3.4.2　Linking to the controller simulator

POINT

(1) Devices that are unsupported by the controller simulators
The controller simulators cannot monitor unsupported devices.
For the devices supported by the controller simulators, refer to the following.

☞ GX Simulator Version□ Operating Manual

　 GX Works2 Version□ Operating Manual

　 GX Works3 Operating Manual

(2) PLC CPU that can be simulated on GT Simulator3
Refer to the following manual for PLC CPU that can be simulated on GT Simulator3.

☞ 2.3 PLC CPUs that Can Be Simulated

■ **MITSUBISHI PLC**

It is possible to simulate the device ranges that can be monitored on GOT.
Refer to the following manual for the device ranges that can be monitored on GOT.

　　• For GOT1000 series simulator

　　　　☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

　　• For GOT-A900 series simulator

　　　　☞ GT Designer2 Version□ Reference Manual

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■ OMRON PLC (OMRON SYSMAC)

	Device name	GOT monitoring available range [*1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	I/O relay/Internal auxiliary relay (..)	..000000 to ..614315	..000000 to ..008115
	Data link relay (LR)	LR00000 to LR19915	LR00000 to LR08115
	Auxiliary memory relay (AR)	AR00000 to AR95915	-
	Holding relay (HR)	HR00000 to HR51115	HR00000 to HR08115
	Internal auxiliary relay/Work relay(WR)	WR00000 to WR51115	WR00000 to WR08115
	Timer contact (TIM)	TIM0000 to TIM4095 (TIM2047)[*2]	TIM0000 to TIM0255
	Counter contact (CNT)	CNT0000 to CNT4095 (CNT2047)[*2]	CNT0000 to CNT0255
	Bit-specified word device (Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	I/O relay/Internal auxiliary relay (..)	..0000 to ..6143	..0000 to ..0081
	Data link relay (LR)	LR000 to LR199	LR000 to LR081
	Auxiliary memory relay (AR)	AR000 to AR959	-
	Holding relay (HR)	HR000 to HR511	HR000 to HR081
	Internal auxiliary relay/Work relay(WR)	WR000 to WR511	WR000 to WR081
	Data memory (DM)	DM00000 to DM32767 (DM9999)[*2]	DM0000 to DM8191
	Timer (current value) (TIM)	TIM0000 to TIM4095 (TIM2047)[*2]	TIM0000 to TIM0255
	Counter (current value) (CNT)	CNT0000 to CNT4095 (CNT2047)[*2]	CNT0000 to CNT0255
	Extended data memory (EM current bank)	EM00000 to EM32767 (EM9999)[*2]	-
	Extended data memory (EM banks 0 to 13)	E000000 to E032767 (E09999)[*2] • • EC00000 to EC32767 (EC9999)[*2]	-

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

        ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

        ☞ GT Designer2 Version□ Reference Manual
*2   In parentheses, the device ranges of GOT-A900 Series is indicated.

■ OMRON PLC (OMRON SYSMAC CS/CJ)

<table>
<tr>
<th colspan="2">Device name</th>
<th>GOT monitoring available range *1</th>
<th>Available range for simulating with GT Simulator3
(The operable range on GX Simulator or GX Simulator2)</th>
</tr>
<tr>
<td rowspan="8">Bit device</td>
<td>I/O relay/Internal auxiliary relay (..)</td>
<td>..000000 to ..614315</td>
<td>..000000 to ..008115</td>
</tr>
<tr>
<td>Data link relay (LR)</td>
<td>LR00000 to LR19915</td>
<td>LR00000 to LR08115</td>
</tr>
<tr>
<td>Auxiliary memory relay (AR)</td>
<td>AR000000 to AR147115
AR1000000 to AR1153515</td>
<td>-</td>
</tr>
<tr>
<td>Holding relay (HR)</td>
<td>HR00000 to HR51115</td>
<td>HR00000 to HR08115</td>
</tr>
<tr>
<td>Internal auxiliary relay/Work relay(WR)</td>
<td>WR00000 to WR51115</td>
<td>WR00000 to WR08115</td>
</tr>
<tr>
<td>Timer contact (TIM)</td>
<td>TIM0000 to TIM4095</td>
<td>TIM0000 to TIM0255</td>
</tr>
<tr>
<td>Counter contact (CNT)</td>
<td>CNT0000 to CNT4095</td>
<td>CNT0000 to CNT0255</td>
</tr>
<tr>
<td>Bit-specified word device
(Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)</td>
<td>Monitoring available range of each word device</td>
<td>Monitoring available range of each word device</td>
</tr>
<tr>
<td rowspan="11">Word device</td>
<td>I/O relay/Internal auxiliary relay (..)</td>
<td>..0000 to ..6143</td>
<td>..0000 to ..0081</td>
</tr>
<tr>
<td>Data link relay (LR)</td>
<td>LR000 to LR199</td>
<td>LR000 to LR081</td>
</tr>
<tr>
<td>Auxiliary memory relay (AR)</td>
<td>AR0000 to AR11535
AR10000 to AR11535</td>
<td>-</td>
</tr>
<tr>
<td>Holding relay (HR)</td>
<td>HR000 to HR511</td>
<td>HR000 to HR081</td>
</tr>
<tr>
<td>Internal auxiliary relay/Work relay(WR)</td>
<td>WR000 to WR511</td>
<td>WR000 to WR081</td>
</tr>
<tr>
<td>Data memory (DM)</td>
<td>DM00000 to DM32767</td>
<td>DM0000 to DM8191</td>
</tr>
<tr>
<td>Timer (current value) (TIM)</td>
<td>TIM0000 to TIM4095</td>
<td>TIM0000 to TIM0255</td>
</tr>
<tr>
<td>Counter (current value) (CNT)</td>
<td>CNT0000 to CNT4095</td>
<td>CNT0000 to CNT0255</td>
</tr>
<tr>
<td>Extended data memory
(EM current bank)</td>
<td>EM00000 to EM32767</td>
<td>-</td>
</tr>
<tr>
<td>Extended data memory
(EM banks 0 to 13)</td>
<td>E000000 to E032767
•
•
EC1800000 to EC1832767</td>
<td>-</td>
</tr>
</table>

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

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■ KEYENCE PLC (KEYENCE KV-700/1000/3000/5000)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Relay (..)	..00000 to ..59915	..00000 to ..51115
	Internal AUX relay (MR)	MR00000 to MR99915	MR00000 to MR51115
	Latch relay (LR)	LR00000 to LR99915	LR00000 to LR51115
	Control relay (CR)	CR0000 to CR3915	CR0000 to CR1515
	Timer (contact) (T)	T0000 to T3999	T0000 to T0255
	Counter (contact) (C)	C0000 to C3999	C0000 to C0255
	High-speed counter comparators (contact) (CTC)	CTC0 to CTC3	-
	Bit-specified word device (Except for Timer (current value), Timer (set value), Counter (current value), Counter (set value), High-speed counter (current value), High-speed counter comparators (set value), Control memory, Temparary data memory, Index register, Digital trimer.)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Relay (..)	..00000 to ..59900	..00000 to ..51100
	Internal AUX relay (MR)	MR00000 to MR99900	MR00000 to MR51100
	Latch relay (LR)	LR00000 to LR99900	LR00000 to LR51100
	Control relay (CR)	CR0000 to CR3900	CR0000 to CR1500
	Timer (current value) (TC)	TC0000 to TC3999	TC0000 to TC0254
	Timer (set value) (TS)	TS0000 to TS3999	-
	Counter (current value) (CC)	CC0000 to CC3999	CC0000 to CC0254
	Counter (set value) (CS)	CS0000 to CS3999	-
	High-speed counter (current value) (CTH)	CTH0 to CTH1	-
	High-speed counter comparators (set value) (CTC)	CTC0 to CTC3	-
	Data memory (DM)	DM00000 to DM65534	DM0000 to DM8191
	Extended data memory (EM)	EM00000 to EM65534	-
	Extended data memory 2 (FM)	FM00000 to FM32766	-
	Control memory (CM)	CM00000 to CM11998	-
	Temporary data memory (TM)	TM000 to TM511	-
	Index register (Z)	Z01 to Z12	Z01 to Z06
	Digital trimmer (TRM)	TRM0 to TRM7	-

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

■ KOYO EI PLC (KOYO KOSTAC/DL)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input (I)	I0 to I1777	I0 to I1777
	Output (Q)	Q0 to Q1777	Q0 to Q1777
	Link relay (GI)	GI0 to GI3777	GI0 to GI3777
	Link output (GQ)	GQ0 to GQ3777	-
	Internal relay (M)	M0 to M3777	M0 to M3777
	Stage (S)	S0 to S1777	-
	Timer (T)	T0 to T377	T0 to T377
	Counter (C)	C0 to C377	C0 to C377
	Special relay (SP)	SP0 to SP777	-
Word device	Timer (current value) (R)	R0 to R377	R0 to R377
	Preparatory register (R)	R400 to R677	R400 to R677
	Special register 1 (R)	R700 to R777	R700 to R777
	Counter (current value) (R)	R1000 to R1377	R1000 to R1377
	Data register 1 (R)	R1400 to R7377	R1400 to R7377
	Special register 2 (R)	R7400 to R7777	R7400 to R7777
	Data register 2 (R)	R10000 to R36777	R10000 to R36777
	Special register 3 (R)	R37000 to R37777	R37000 to R37777
	Link relay (R)	R40000 to R40177	R40000 to R40177
	Link output (R)	R40200 to R40377	R40200 to R40377
	Input (R)	R40400 to R40477	R40400 to R40477
	Output (R)	R40500 to R40577	R40500 to R40577
	Internal relay (R)	R40600 to R40777	R40600 to R40777
	Stage (R)	R41000 to R41077	R41000 to R41077
	Timer (R)	R41100 to R41117	R41100 to R41117
	Counter (R)	R41140 to R41157	R41140 to R41157
	Special relay (R)	R41200 to R41237	R41200 to R41237

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

       ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

       ☞ GT Designer2 Version□ Reference Manual

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■ JTEKT PLC (JTEKT TOYOPUC-PC)

<table>
<tr><th colspan="2">Device name</th><th>GOT monitoring available range [1]</th><th>Available range for simulating with GT Simulator3
(The operable range on GX Simulator or GX Simulator2)</th></tr>
<tr><td rowspan="23">Bit device</td><td>Input (X)</td><td>X000 to X7FF</td><td>X000 to X7FF</td></tr>
<tr><td>Output (Y)</td><td>Y000 to Y7FF</td><td>Y000 to Y7FF</td></tr>
<tr><td>Link relay (L)</td><td>L000 to L7FF</td><td>L000 to L7FF</td></tr>
<tr><td>Internal relay (M)</td><td>M000 to M7FF</td><td>M000 to M7FF</td></tr>
<tr><td>Keep relay (K)</td><td>K000 to K2FF</td><td>-</td></tr>
<tr><td>Edge detection (P)</td><td>P000 to P1FF</td><td>-</td></tr>
<tr><td>Timer (T)</td><td>T000 to T1FF</td><td>T000 to T1FF</td></tr>
<tr><td>Counter (C)</td><td>C000 to C1FF</td><td>C000 to C1FF</td></tr>
<tr><td>Special relay (V)</td><td>V000 to V0FF</td><td>-</td></tr>
<tr><td>Extended input (EX)</td><td>EX000 to EX7FF</td><td>-</td></tr>
<tr><td>Extended output (EY)</td><td>EY000 to EY7FF</td><td>-</td></tr>
<tr><td>Extended internal relay (EM)</td><td>EM0000 to EM1FFF</td><td>-</td></tr>
<tr><td>Extended keep-relay (EK)</td><td>EK000 to EKFFF</td><td>-</td></tr>
<tr><td>Extended special relay (EV)</td><td>EV000 to EVFFF</td><td>-</td></tr>
<tr><td>Extended timer (ET)</td><td>ET000 to ET7FF</td><td>-</td></tr>
<tr><td>Extended counter (EC)</td><td>EC000 to EC7FF</td><td>-</td></tr>
<tr><td>Extended link relay (EL)</td><td>EL0000 to EL1FFF</td><td>-</td></tr>
<tr><td>Extended edge detection (EP)</td><td>EP000 to EPFFF</td><td>-</td></tr>
<tr><td>Extended input 2 (GX)</td><td>GX0000 to GXFFFF</td><td>-</td></tr>
<tr><td>Extended output 2 (GY)</td><td>GY0000 to GYFFFF</td><td>-</td></tr>
<tr><td>Extended internal relay (GM)</td><td>GM0000 to GMFFFF</td><td>-</td></tr>
<tr><td>Bit-specified word device
(Except EB and TCS)</td><td>Monitoring available range of each word device</td><td>Monitoring available range of each word device</td></tr>
<tr><td rowspan="12">Word device</td><td>Data register (D)</td><td>D0000 to D2FFF</td><td>D0000 to D2FFF</td></tr>
<tr><td>Link register (R)</td><td>R0000 to R07FF</td><td>R0000 to R07FF</td></tr>
<tr><td>Setup value register (N)</td><td>N0000 to N01FF</td><td>N0000 to N01FF</td></tr>
<tr><td>Special register (S)</td><td>S0000 to S03FF</td><td>-</td></tr>
<tr><td>File register (B)</td><td>B0000 to B1FFF</td><td>B0000 to B1FFF</td></tr>
<tr><td>Extended present value register (EN)</td><td>EN0000 to EN07FF</td><td>-</td></tr>
<tr><td>Extended setup value register (H)</td><td>H0000 to H07FF</td><td>-</td></tr>
<tr><td>Extended special register (ES)</td><td>ES0000 to ES07FF</td><td>-</td></tr>
<tr><td>Extended data register (U)</td><td>U0000 to U7FFF</td><td>-</td></tr>
<tr><td>Extended buffer register (EB)</td><td>EB00000 to EB07FFF
EB08000 to EB0FFFF
EB10000 to EB17FFF
EB18000 to EB1FFFF</td><td>-</td></tr>
<tr><td>Setup value register (TCS)</td><td>TCS0000 to TCS01FF</td><td>-</td></tr>
<tr><td>Word-specified bit devices</td><td>Monitoring available range of each bit device</td><td>Monitoring available range of each bit device</td></tr>
</table>

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

■ SHARP PLC (SHARP JW)

<table>
<tr><th colspan="2">Device name</th><th>GOT monitoring available range *1</th><th>Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)</th></tr>
<tr><td rowspan="4">Bit device</td><td>I/O relay</td><td>..00000 to ..15777
..20000 to ..75777</td><td>..00000 to ..15777</td></tr>
<tr><td>Timer (contact) (T)</td><td>T0000 to T1777</td><td>T0000 to T0377</td></tr>
<tr><td>Counter (contact) (C)</td><td>C0000 to C1777</td><td>C0000 to C0377</td></tr>
<tr><td>Bit-specified word device</td><td>Monitoring available range of each word device</td><td>Monitoring available range of each word device</td></tr>
<tr><td rowspan="24">Word device</td><td>Timer (current value) (T)</td><td>T0000 to T1777</td><td>T0000 to T0377</td></tr>
<tr><td>Counter (current value) (C)</td><td>C0000 to C1777</td><td>C0000 to C0377</td></tr>
<tr><td rowspan="20">Register (09 to E7)</td><td>09000 to 09776</td><td>09000 to 09776</td></tr>
<tr><td>19000 to 19776</td><td>19000 to 19776</td></tr>
<tr><td>29000 to 29776</td><td>29000 to 29776</td></tr>
<tr><td>39000 to 39776</td><td>39000 to 39776</td></tr>
<tr><td>49000 to 49776</td><td>49000 to 49776</td></tr>
<tr><td>59000 to 59776</td><td>59000 to 59776</td></tr>
<tr><td>69000 to 69776</td><td>69000 to 69776</td></tr>
<tr><td>79000 to 79776</td><td>79000 to 79776</td></tr>
<tr><td>89000 to 89776</td><td>89000 to 89776</td></tr>
<tr><td>99000 to 99776</td><td>99000 to 99776</td></tr>
<tr><td>E0000 to E0776</td><td>E0000 to E0776</td></tr>
<tr><td>E1000 to E1776</td><td>E1000 to E1776</td></tr>
<tr><td>E2000 to E2776</td><td>E2000 to E2776</td></tr>
<tr><td>E3000 to E3776</td><td>E3000 to E3776</td></tr>
<tr><td>E4000 to E4776</td><td>E4000 to E4776</td></tr>
<tr><td>E5000 to E5776</td><td>E5000 to E5776</td></tr>
<tr><td>E6000 to E6776</td><td>-</td></tr>
<tr><td>E7000 to E7776</td><td>E7450 to E7776</td></tr>
<tr><td>File register (1 to 7)</td><td>1000000 to 1177776
2000000 to 2177776
3000000 to 3177776
4000000 to 4177776
5000000 to 5177776
6000000 to 6177776
7000000 to 7177776</td><td>-</td></tr>
<tr><td>Word-specified bit devices (Except Timer and Counter)</td><td>Monitoring available range of each bit device</td><td>Monitoring available range of each bit device</td></tr>
</table>

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

   ☞ GT Designer2 Version□ Reference Manual

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■ TOSHIBA PLC

(1) TOSHIBA PROSEC T/V

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	External input (X)	X0000 to X511F	X0000 to X511F
	External output (Y)	Y0000 to Y511F	Y0000 to Y511F
	Internal relay (R)	R0000 to R4095F	R0000 to R0511F
	Special relay (S)	S0000 to S511F	-
	Link register relay (Z)	Z0000 to Z999F	Z0000 to Z511F
	Link relay (L)	L0000 to L255F	-
	Timer (contact) (T)	T0 to T999	T0 to T255
	Counter (contact) (C)	C0 to C511	C0 to C255
	Bit-specified word device (Only for data register, link register and file register)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	External input (XW)	XW0 to XW511	XW0 to XW511
	External output (YW)	YW0 to YW511	YW0 to YW511
	Internal relay (RW)	RW0 to RW4095	RW0 to RW4095
	Special relay (SW)	SW0 to SW511	-
	Link relay (LW)	LW0 to LW255	-
	Timer (current value) (T)	T0 to T999	T0 to T255
	Counter (current value) (C)	C0 to C511	C0 to C255
	Data register (D)	D0 to D8191	D0 to D8191
	Link register (W)	W0 to W2047	W0 to W2047
	File register (F)	F0 to F32767	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

   ☞ GT Designer2 Version□ Reference Manual

(2) TOSHIBA Unified Controller nv

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	External input (X)	X000000 to X16383F	-
	External output (Y)	Y000000 to Y16383F	-
	Internal relay (R)	R00000 to R8191F	-
	Input variable (I)	I000000 to I16383F	-
	Output variable (Q)	Q000000 to Q16383F	-
	Special relay (S)	S00000 to S1023F	-
Word device	External input (XW)	XW0 to XW16383	-
	External output (YW)	YW0 to YW16383	-
	Internal relay (RW)	RW0 to RW8191	-
	Special relay (SW)	SW0 to SW1023	-
	Data register (D)	D0 to D8191	-
	File register (F)	F0 to F32767	-
	Input variable (IW)	IW0 to IW16383	-
	Output variable (QW)	QW0 to QW16383	-
	User global (UG)	UG0 to UG262143	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

   ☞ GT Designer2 Version□ Reference Manual

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■ TOSHIBA MACHINE PLC (TOSHIBA MACHINE TCmini)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input relay 1 (X)	X000 to XF7F	X000 to XF7F
	Input relay 2 (I)	I000 to IF7F	-
	Output relay 1 (Y)	Y000 to YF7F	Y000 to YF7F
	Output relay 2 (O)	O000 to OF7F	-
	Internal relay (R)	R000 to R77F	R000 to R77F
	Extended internal relay 1 (GR)	GR000 to GRF7F	-
	Extended internal relay 2 (H)	H000 to HF7F	-
	Extended internal relay 3 (J)	J000 to JF7F	-
	Extended internal relay 4 (K)	K000 to KF7F	-
	Timer contact (T)	T000 to T77F	T000 to T17F
	Counter contact (C)	C000 to C77F	C000 to C17F
	Shift relay (S)	S000 to S07F	-
	Latch relay (L)	L000 to L07F	L000 to L07F
	Edge relay (E)	E000 to E77F	E000 to E77F
	Special aux relay (A)	A000 to A16F	A000 to A16F
Word device	Input register 1 (XW)	XW00 to XWF7	XW00 to XWF7
	Input register 2 (IW)	IW00 to IWF7	-
	Output register 1 (YW)	YW00 to YWF7	YW00 to YWF7
	Output register 2 (OW)	OW00 to OWF7	-
	Internal register (RW)	RW00 to RW77	RW00 to RW77
	Extended internal register 1 (GW)	GW00 to GWF7	-
	Extended internal register 2 (HW)	HW00 to HWF7	-
	Extended internal register 3 (JW)	JW00 to JWF7	-
	Extended internal register 4 (KW)	KW00 to KWF7	-
	Timer contact register (TW)	TW00 to TW77	TW00 to TW17
	Counter contact register (CW)	CW00 to CW77	CW00 to CW17
	Shift register (SW)	SW00 to SW07	-
	Latch register (LW)	LW00 to LW07	LW00 to LW07
	Edge register (EW)	EW00 to EW77	EW00 to EW77
	Special aux register (AW)	AW00 to AW16	AW00 to AW16
	Generic register 1 (D)	D000 to DF7F	D000 to DF7F
	Generic register 2 (B)	B000 to BF7F	-
	Generic register 3 (U)	U000 to UF7F	-
	Generic register 4 (M)	M000 to MF7F	-
	Generic register 5 (Q)	Q000 to QF7F	-
	Timer/Counter current value (P)	P000 to P77F	P000 to P17F
	Timer/Counter set value (V)	V000 to V77F	-

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
• For GOT1000 series simulator

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
• For GOT-A900 series simulator

☞ GT Designer2 Version□ Reference Manual

■ PANASONIC INDUSTRIAL DEVICES SUNX PLC (Panasonic MEWNET-FP)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input relay (X)	X0000 to X511F	X0000 to X511F
	Output relay (Y)	Y0000 to Y511F	Y0000 to Y511F
	Internal relay (R)	R0000 to R886F	R0000 to R511F
	Special relay (R)	R9000 to R911F	R9000 to R910F
	Link relay (L)	L0000 to L639F	L0000 to L511F
	Timer contact (T)	T0 to T3071	T0 to T255
	Counter contact (C)	C0 to C3071	C0 to C255
	Bit-specified word device (Except for input relay, output relay, internal relay, special relay and link relay)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Input relay (WX)	WX000 to WX511	WX000 to WX511
	Output relay (WY)	WY000 to WY511	WY000 to WY511
	Internal relay (WR)	WR000 to WR886	WR000 to WR511
	Special relay (WR)	WR900 to WR911	WR900 to WR910
	Link relay (WL)	WL000 to WL639	WL000 to WL511
	Timer/counter (elapsed value) (EV)	EV0 to EV3071	EV0 to EV255
	Counter contact (set value) (SV)	SV0 to SV3071	-
	Data register (DT)	DT0 to DT10239	DT0 to DT8191
	Special data register (DT)	DT90000 to DT90511	-
	Link register (LD)	LD0 to LD8447	LD0 to LD8191
	File register (FL)	FL0 to FL32764	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
- For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
- For GOT-A900 series simulator

  ☞ GT Designer2 Version☐ Reference Manual

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■ HITACHI IES PLC (HITACHI HIDEIC H Series)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	External input (X)	X00000 to X05A95	X00000 to X05A95
	External output (Y)	Y00000 to Y05A95	Y00000 to Y05A95
	Remote external input (X)	X10000 to X49995	-
	Remote external output (Y)	Y10000 to Y49995	-
	First CPU link (L)	L0000 to L3FFF	L0000 to L3FFF
	Second CPU link (L1)	L10000 to L13FFF	-
	Data area (M)	M0000 to M3FFF	M0000 to M1FFF
	On-delay timer (TD)	TD0 to TD255	TD0 to TD255
	Single-shot timer (SS)	SS0 to SS255	-
	Watchdog timer (WDT)	WDT0 to WDT255	-
	Monostable timer (MS)	MS0 to MS255	-
	Retentive timer (TMR)	TMR0 to TMR255	-
	Up counter (CU)	CU0 to CU511	CU0 to CU255
	Ring counter (RCU)	RCU0 to RCU511	-
	Up/down counter (CT)	CT0 to CT511	-
	Bit internal output (R)	R0 to R7BF	-
	Leading edge detection (DIF)	DIF0 to DIF511	-
	Trailing edge detection (DFN)	DFN0 to DFN511	-
	Bit-specified word device (Only for timer/counter and word internal output)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	External input (WX)	WX0000 to WX05A7	-
	External output (WY)	WY0000 to WY05A7	-
	Remote external input (WX)	WX1000 to WX4997	-
	Remote external output (WY)	WY1000 to WY4997	-
	First CPU link (WL)	WL000 to WL3FF	WL000 to WL3FF
	Second CPU link (WL1)	WL1000 to WL13FF	-
	Data area (WM)	WM000 to WM3FF	WM000 to WM1FF
	Timer/counter (elapsed value) (TC)	TC0 to TC511	TC0 to TC255
	Word internal output (WR)	WR000 to WR3FF	WR000 to WR3FF

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
   • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
   • For GOT-A900 series simulator

   ☞ GT Designer2 Version□ Reference Manual

■ HITACHI PLC (Hitachi S10mini/S10V)

<table>
<tr><th colspan="2">Device name</th><th>Monitor applicable range for GOT *1</th><th>Available range for simulating with GT Simulator3
(The operable range on GX Simulator or GX Simulator2)</th></tr>
<tr><td rowspan="15">Bit device</td><td>External input (X)</td><td>X000 to XFFF</td><td>X000 to XFFF</td></tr>
<tr><td>External output (Y)</td><td>Y000 to YFFF</td><td>Y000 to YFFF</td></tr>
<tr><td>Internal register (R)</td><td>R000 to RFFF</td><td>R000 to RFFF</td></tr>
<tr><td>Keep relay (K)</td><td>K000 to KFFF</td><td>K000 to KFFF</td></tr>
<tr><td>Extended internal register (M)</td><td>M000 to MFFF</td><td>M000 to MFFF</td></tr>
<tr><td>Extended internal register (A)</td><td>A000 to AFFF</td><td>-</td></tr>
<tr><td>On-delay timer (T)</td><td>T000 to T1FF</td><td>T000 to T1FF</td></tr>
<tr><td>One-shot timer (U)</td><td>U000 to U0FF</td><td>-</td></tr>
<tr><td>Up-down counter (C)</td><td>C00 to CFF</td><td>C00 to CFF</td></tr>
<tr><td>Global link register (G)</td><td>G000 to GFFF</td><td>G000 to GFFF</td></tr>
<tr><td>Event register (E)</td><td>E000 to EFFF</td><td>E000 to EFFF</td></tr>
<tr><td>System register (S)</td><td>S000 to SBFF</td><td>S000 to S0FF</td></tr>
<tr><td>Transfer register (J)</td><td>J000 to JFFF</td><td>-</td></tr>
<tr><td>Receive register (Q)</td><td>Q000 to QFFF</td><td>-</td></tr>
<tr><td>Bit-specified word device
(except External input, External output, Internal register, Extended internal register, Keep relay, On-delay timer, One-shot timer, Up-down counter, Global link register, Event register, System register, Transfer register, Receive register, Long-word work register, Floating-point work register, Backup single-precision floating-point work register.)</td><td>Monitoring available range of each word device</td><td>Monitoring available range of each word device</td></tr>
</table>

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Device name		Monitor applicable range for GOT [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Word device	External input (XW)	XW000 to XWFF0	XW000 to XWFF0
	External output (YW)	YW000 to YWFF0	YW000 to YWFF0
	Internal register (RW)	RW000 to RWFF0	RW000 to RWFF0
	Extended internal register (MW)	MW000 to MWFF0	MW000 to MWFF0
	Extended internal register (AW)	AW000 to AWFF0	-
	Keep relay (KW)	KW000 to KWFF0	KW000 to KWFF0
	On-delay timer (TW)	TW000 to TW1F0	TW000 to TW1F0
	One-shot timer (UW)	UW000 to UW0F0	-
	Up-down counter (CW)	CW00 to CWF0	CW00 to CWF0
	Global link register (GW)	GW000 to GWFF0	GW000 to GWFF0
	Event register (EW)	EW000 to EWFF0	EW000 to EWFF0
	System register (SW)	SW000 to SWBF0	SW000 to SW0F0
	Transfer register (JW)	JW000 to JWFF0	-
	Receive register (QW)	QW000 to QWFF0	-
	On-delay timer (current value) (TC)	TC000 to TC1FF	TC000 to TC1FF
	On-delay timer (current value) (TS)	TS000 to TS1FF	-
	One-shot timer (current value) (UC)	UC000 to UC0FF	-
	One-shot timer (current value) (US)	US000 to US0FF	-
	Up-down counter (current value) (CC)	CC00 to CCFF	CC00 to CCFF
	Up-down counter (current value) (CS)	CS00 to CSFF	-
	Function data register (DW)	DW000 to DWFFF	DW000 to DWFFF
	Function work register (FW)	FW000 to FWBFF	-
	Extended function work register (LWW)	LWW0000 to LWWFFFF	-
	Backup work register (LXW)	LXW0000 to LXW3FFF	-
	Long-word work register (LLL)	LLL0000 to LLL1FFF	-
	Backup long-word work register (LML)	LML0000 to LML1FFF	-
	Floating-point work register (LF)	LF0000 to LF1FFF	-
	Backup single-precision floating-point work register (LG)	LG0000 to LG1FFF	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

■ FUJI PLC

(3) FUJI MICREX-F

	Device name	Monitor applicable range for GOT [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	I/O relay (B)	B0000 to B511F	B0000 to B511F
	Auxiliary relay (M)	M0000 to M511F	M0000 to M511F
	Keep relay (K)	K0000 to K063F	K0000 to K063F
	Special relay (F)	F0000 to F125F	F0000 to F015F
	Annunciator relay (A)	A0000 to A045F	A0000 to A045F
	Differential relay (D)	D0000 to D036F	-
	Link memory (L)	L0000 to L511F	L0000 to L511F
	Timer output (0.01second) (T)	T000 to T511	T000 to T511
	Timer output (0.1second) (T)	T512 to T999	T512 to T999
	Counter output (C)	C000 to C511	C000 to C511
	Bit-specified word device (except I/O relay, Auxiliary relay, Keep relay, Special relay, Annunciator relay, Differential relay, Link memory, Data memory, Timer, Counter.)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	I/O relay (WB)	WB000 to WB511	WB000 to WB511
	Auxiliary relay (WM)	WM000 to WM511	WM000 to WM511
	Keep relay (WK)	WK000 to WK063	WK000 to WK063
	Special relay (WF)	WF000 to WF125	WF000 to WF015
	Annunciator relay (WA)	WA000 to WA045	WA000 to WA045
	Differential relay (WD)	WD000 to WD063	-
	Link memory (WL)	WL000 to WL511	WL000 to WL511
	Direct access (W24)	W24: 0000 to W24: 0255	-
	User file (W30) User file (W31) • • User file (W108) User file (W109)	W30: 0000 to W30: 4095 W31: 0000 to W31: 4095 • • W108: 0000 to W108: 4095 W109: 0000 to W109: 4095	-
	Data memory (BD)	BD0 to BD4095	BD0 to BD4095
	Timer set value (0.01second) (TS)	TS0 to TS511	-
	Timer current value (0.01second) (TR)	TR0 to TR511	-
	Timer current value (0.1second) (W9)	W9: 0000 to W9: 0487	W9: 0000 to W9: 0487
	Counter set value (CS)	CS0 to CS511	-
	Counter current value (CR)	CR0 to CR511	CR0 to CR511

*1 For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual(Fundamentals)

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(4) FUJI MICREX-SX SPH

	Device name	Monitor applicable range for GOT [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Bit-specified word device	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Non-retain memory (M)	M0000 to M2097151	M0000 to M32767
Word device	Retain memory (L)	L0000 to L2097151	L0000 to L32767
Word device	System memory (SM)	SM000 to SM511	-

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
       • For GOT1000 series simulator

          GT Designer3 Version1 Screen Design Manual(Fundamentals)

■ YASKAWA PLC

(1) YASKAWA GL/PROGIC8

Device name		GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Coil (O)	O1 to O63424	O1 to O8176
	Input relay (I)	I1 to I63424	I1 to I8176
	Link coil (D)	D1 to D2048	D1 to D2048
		D10001 to D12048 D20001 to D22048	-
	Bit-specified word device	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Input register (Z)	Z1 to Z31840	Z1 to Z8192 Z9000 to Z9256
	Holding register (W)	W1 to W28291	-
		SW1 to SW28291	-
	Link register (R, SR)	R1 to R2048	R1 to R2048
		R10001 to R12048 R20001 to R22048	-
		SR1 to SR2048	-
		SR10001 to SR12048 SR20001 to SR22048	-
	Constant register (K)	K1 to K4096	K1 to K6
	Word-specified bit devices (Except coil and input relay)	Monitoring available range of each bit device	Monitoring available range of each bit device

*1 For precautions when using each device that can be monitored by GOT, refer to the following manual.
- For GOT1000 series simulator

    ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
- For GOT-A900 series simulator

    ☞ GT Designer2 Version□ Reference Manual

(2) YASKAWA CP-9200SH/MP900 Series

Device name		GOT monitoring available range [2]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Coil (MB)	MB000000 to MB32767F	MB000000 to MB00511F
	Input relay (IB)	IB0000 to IBFFFF	IB0000 to IB1FFF
	Bit-specified word device (Except for coil and input relay)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Input register (IW)	IW0000 to IW7FFF	IW0000 to IW1FFF
	Holding register (MW)	MW0 to MW32767	-
	Coil (MB)	MB0 to MB32767	MB0 to MB511
	Input relay (IB)	IB000 to IBFFF	IB000 to IBFFF

*2 For precautions when using each device that can be monitored by GOT, refer to the following manual.
- For GOT1000 series simulator

    ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
- For GOT-A900 series simulator

    ☞ GT Designer2 Version□ Reference Manual

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(3) YASKAWA CP-9200 (H)

<table>
<tr>
<th colspan="2" rowspan="2">Device name</th>
<th rowspan="2">GOT monitoring available range [1]</th>
<th>Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)</th>
</tr>
<tr>
</tr>
<tr>
<td rowspan="3">Bit device</td>
<td>Coil (OB)</td>
<td>OB000 to OB7FF</td>
<td>OB000 to OB7FF</td>
</tr>
<tr>
<td>Input relay (IB)</td>
<td>IB000 to IB7FF</td>
<td>IB000 to IB7FF</td>
</tr>
<tr>
<td>Bit-specified word device</td>
<td>Monitoring available range of each word device</td>
<td>Monitoring available range of each word device</td>
</tr>
<tr>
<td rowspan="6">Word device</td>
<td>Input register (IW)</td>
<td>IW00 to IW7F</td>
<td>-</td>
</tr>
<tr>
<td>Output register (OW)</td>
<td>OW00 to OW7F</td>
<td>-</td>
</tr>
<tr>
<td rowspan="2">Data register (DW, ZD)</td>
<td>DW0 to DW2047</td>
<td>-</td>
</tr>
<tr>
<td>ZD0 to ZD2047</td>
<td>ZD0 to ZD6</td>
</tr>
<tr>
<td>Common register (MW)</td>
<td>MW0 to MW7694</td>
<td>-</td>
</tr>
<tr>
<td>Word-specified bit devices</td>
<td>Monitoring available range of each bit device</td>
<td>Monitoring available range of each bit device</td>
</tr>
</table>

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
 • For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
 • For GOT-A900 series simulator

  ☞ GT Designer2 Version□ Reference Manual

(4) YASKAWA CP-9300MS (MC compatible)

<table>
<tr>
<th colspan="2" rowspan="2">Device name</th>
<th rowspan="2">GOT monitoring available range [2]</th>
<th>Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)</th>
</tr>
<tr>
</tr>
<tr>
<td rowspan="3">Bit device</td>
<td>Coil (OB)</td>
<td>OB0 to OB1023</td>
<td>OB0 to OB1023</td>
</tr>
<tr>
<td>Input relay (IB)</td>
<td>IB0 to IB1023</td>
<td>IB0 to IB1023</td>
</tr>
<tr>
<td>Bit-specified word device</td>
<td>Monitoring available range of each word device</td>
<td>Monitoring available range of each word device</td>
</tr>
<tr>
<td rowspan="4">Word device</td>
<td>Input register (I)</td>
<td>I0 to I63</td>
<td>-</td>
</tr>
<tr>
<td>Data register (M)</td>
<td>M0 to M2047</td>
<td>-</td>
</tr>
<tr>
<td>Output register (o)</td>
<td>o0 to o63</td>
<td>-</td>
</tr>
<tr>
<td>Word-specified bit devices</td>
<td>Monitoring available range of each bit device</td>
<td>Monitoring available range of each bit device</td>
</tr>
</table>

[2] For precautions when using each device that can be monitored by GOT, refer to the following manual.
 • For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
 • For GOT-A900 series simulator

  ☞ GT Designer2 Version□ Reference Manual

■ YOKOGAWA PLC (FA500, FA-M3 Series)

(1) FA500/FA-M3

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input relay (X)	X00201 to X71664	X00201 to X71664
	Output relay (Y)	Y00201 to Y71664	Y00201 to Y71664
	Internal relay (I)	I1 to I65535	-
	Link relay (L)	L1 to L71024	L1 to L71024
	Shared relay (E)	E1 to E4096	-
	Special relay (M)	M1 to M9984	M1 to M256
	Timer (TU)	TU1 to TU3072	TU1 to TU256
	Counter (CU)	CU1 to CU3072	CU1 to CU256
	Bit-specified word device (Except for timer (TP, TS) and counter (CP, CS))	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Timer (TP)	TP1 to TP3072	TP1 to TP256
	Timer (TS)	TS1 to TS3072	-
	Counter (CP)	CP1 to CP3072	CP1 to CP256
	Counter (CS)	CS1 to CS3072	-
	File register (B)	B1 to B262144	-
	Data register (D)	D1 to D8192	D1 to D8192
	Shared register (R)	R1 to R4096	-
	Index register (V)	V1 to V256	-
	Link register (W)	W1 to W71024	W1 to W71024
	Special register (Z)	Z1 to Z512	Z1 to Z256
	Word-specified bit devices (Except for timer (TU) and counter (CU))	Monitoring available range of each bit device	Monitoring available range of each bit device

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

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(2) STARDOM/FA-M3

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input relay (X)	X00201 to X71664	X00201 to X71664
	Output relay (Y)	Y00201 to Y71664	Y00201 to Y71664
	Internal relay (I)	I1 to I65535	I1 to I8192
	Link relay (L)	L00001 to L08192 L10001 to L18192 L20001 to L28192 L30001 to L38192 L40001 to L48192 L50001 to L58192 L60001 to L68192 L70001 to L78192	-
	Shared relay (E)	E1 to E4096	-
	special relay (M)	M1 to M9984	-
	Timer (TU)	TU1 to TU3072	TU1 to TU256
	Counter (CU)	CU1 to CU3072	CU1 to CU256
	Bit-specified word device (Except TP, TS, CP, and CS)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Timer (TP)	TP1 to TP3072	TP1 to TP256
	Timer (TS)	TS1 to TS3072	-
	Counter (CP)	CP1 to CP3072	CP1 to CP256
	Counter (CS)	CS1 to CS3072	-
	File register (B)	B1 to B262144	-
	Data register (D)	D1 to D65536	D1 to D8192
	Shared register (R)	R1 to R4096	-
	Index register	V1 to V256	V1 to V7
	Link register (W)	W00001 to W08192 W10001 to W18192 W20001 to W28192 W30001 to W38192 W40001 to W48192 W50001 to W58192 W60001 to W68192 W70001 to W78192	-
	Special register (Z)	Z1 to Z1024	-
	Word-specified bit devices (Except TU and CU)	Monitoring available range of each bit device	Monitoring available range of each bit device

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

■ ALLEN-BRADLEY PLC

(1) AB SLC500

<table>
<tr>
<th colspan="2">Device name</th>
<th>GOT monitoring available range [1]</th>
<th>Available range for simulating with GT Simulator3
(The operable range on GX Simulator or GX Simulator2)</th>
</tr>
<tr>
<td rowspan="7">Bit device</td>
<td>Bit (B)</td>
<td>B3:0/0 to B3:255/15
B10:0/0 to B255:255/15</td>
<td>-</td>
</tr>
<tr>
<td>Timer (timing bit) (T)</td>
<td>T4:0/14 (TT) to T4:255/14 (TT)
T10:0/14 (TT) to T255:255/14 (TT)</td>
<td>-</td>
</tr>
<tr>
<td>Timer (completion bit) (T)</td>
<td>T4:0/13 (DN) to T4:255/13 (DN)
T10:0/13 (DN) to T255:255/13 (DN)</td>
<td>-</td>
</tr>
<tr>
<td>Counter (up counter) (C)</td>
<td>C5:0/15 (CU) to C5:255/15 (CU)
C10:0/15 (CU) to C255:255/15 (CU)</td>
<td>-</td>
</tr>
<tr>
<td>Counter (down counter) (C)</td>
<td>C5:0/14 (CD) to C5:255/14 (CD)
C10:0/14 (CD) to C255:255/14 (CD)</td>
<td>-</td>
</tr>
<tr>
<td>Counter (completion bit) (C)</td>
<td>C5:0/13 (DN) to C5:255/13 (DN)
C10:0/13 (DN) to C255:255/13 (DN)</td>
<td>-</td>
</tr>
<tr>
<td>Integer (N)</td>
<td>N7:0 to N7:255
N10:0 to N255:255</td>
<td>-</td>
</tr>
<tr>
<td rowspan="6">Word device</td>
<td>Bit (B)</td>
<td>B3:0 to B3:255
B10:0 to B255:255</td>
<td>-</td>
</tr>
<tr>
<td>Timer (set value) (T)</td>
<td>T4:0.1 (PRE) to T4:255.1 (PRE)
T10:0.1 (PRE) to T255:255.1 (PRE)</td>
<td>-</td>
</tr>
<tr>
<td>Timer (current value) (T)</td>
<td>T4:0.2 (ACC) to T4:255.2 (ACC)
T10:0.2 (ACC) to T255:255.2 (ACC)</td>
<td>-</td>
</tr>
<tr>
<td>Counter (set value) (C)</td>
<td>C5:0.1 (PRE) to C5:255.1 (PRE)
C10:0.1 (PRE) to C255:255.1 (PRE)</td>
<td>-</td>
</tr>
<tr>
<td>Counter (current value) (C)</td>
<td>C5:0.2 (ACC) to C5:255.2 (ACC)
C10:0.2 (ACC) to C255:255.2 (ACC)</td>
<td>-</td>
</tr>
<tr>
<td>Integer (N)</td>
<td>N7:0 to N7:255
N10:0 to N255:255</td>
<td>-</td>
</tr>
</table>

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
- For GOT1000 series simulator

  ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
- For GOT-A900 series simulator

  ☞ GT Designer2 Version□ Reference Manual

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(2) AB MicroLogix1000/1200/1400/1500 Series

	Device name	GOT monitoring available range [*1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input (I)	I:0.0/0 to I:16.7/15	-
	Output (O)	O:0.0/0 to O:16.7/15	-
	Bit (B)	B3:0/0 to B255:255/15	-
	Timer (timing bit) (T)	T3:0/14 (TT) to T255:255/14 (TT)	-
	Timer (completion bit) (T)	T3:0/13 (DN) to T255:255/13 (DN)	-
	Counter (up counter) (C)	C3:0/15 (CU) to C255:255/15 (CU)	-
	Counter (down counter) (C)	C3:0/14 (CD) to C255:255/14 (CD)	-
	Counter (completion bit) (C)	C3:0/13 (DN) to C255:255/13 (DN)	-
	Integer (N)	N3:0/0 to N255:255/15	-
Word device	Input (I)	I:0.0/0 to I:16.7/15	-
	Output (O)	O:0.0/0 to O:16.7/15	-
	Bit (B)	B3:0 to B255:255	-
	Timer (set value) (T)	T3:0.1 (PRE) to T255:255.1 (PRE)	-
	Timer (current value) (T)	T3:0.2 (ACC) to T255:255.2 (ACC)	-
	Counter (set value) (C)	C3:0.1 (PRE) to C255:255.1 (PRE)	-
	Counter (current value) (C)	C3:0.2 (ACC) to C255:255.2 (ACC)	-
	Integer (N)	N3:0 to N255:255	-
	32bit integer (L)	L3:0 to L3:255 L255:0 to L255:255	-
	32bit float (F)	F3:0 to F3:255 F255:0 to F255:255	-

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

      ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
  • For GOT-A900 series simulator

      ☞ GT Designer2 Version□ Reference Manual

(3) AB Control/CompactLogix

	Device name	GOT monitoring available range [*1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	BOOL	BOOL0[0] to BOOL999[31999]	-
Word device	INT	INT0[0] to INT999[999]	-
	DINT	DINT0[0] to DINT999[999]	-
	REAL	REAL0[0] to REAL999[999]	-

*1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

      ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

■ GE PLC (GE Series 90)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	input(I)	I00001 to I12288	I00001 to I08192
	output(Q)	Q00001 to Q12288	Q00001 to Q08192
	internal(M)	M00001 to M12288	M00001 to M08192
	temporary(T)	T001 to T256	-
	system status(S)	S001 to S128	-
	system status(SA)	SA001 to SA128	-
	system status(SB)	SB001 to SB128	-
	system status(SC)	SC001 to SC128	-
	global data(G)	G0001 to G7680	-
Word device	system register(R)	R00001 to R32640	R00001 to R08192
	analog input register(AI)	AI0001 to AI32640	-
	analog output register(AQ)	AQ0001 to AQ32640	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
  • For GOT-A900 series simulator

☞ GT Designer2 Version□ Reference Manual

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■ LS IS PLC (LS Industrial Systems MASTER-K)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	I/O relay (P)	P0000 to P063F	P0000 to P063F
	Auxiliary relay (M)	M0000 to M191F	M0000 to M191F
	Keep relay (K)	K0000 to K031F	K0000 to K031F
	Link relay (L)	L0000 to L063F	L0000 to L063F
	Special relay (F)	F0000 to F063F	F0000 to F015F
	Timer contact (T)	T0 to T255	T0 to T255
	Counter contact (C)	C0 to C255	C0 to C255
Word device	I/O relay (P)	P000 to P063	P000 to P063
	Auxiliary relay (M)	M000 to M191	M000 to M191
	Keep relay (K)	K000 to K031	K000 to K031
	Link relay (L)	L000 to L063	L000 to L063
	Special relay (F)	F000 to F063	F000 to F015
	Timer current value	T0 to T255	T0 to T255
	Counter current value (C)	C0 to C255	C0 to C255
	Step controller (S)	S0 to S99	-
	Data register (D)	D0 to D9999	D0 to D8191

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
 • For GOT1000 series simulator

 ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
 • For GOT-A900 series simulator

 ☞ GT Designer2 Version□ Reference Manual

■ SICK safety controller (SICK Flexi Soft)

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	input (I)	I1.1 to I12.8	I1.1 to I12.8
	output (Q)	Q1.1 to Q12.8	Q1.1 to Q12.8
	Logic result (LQ)	LQ0.0 to LQ3.7	LQ0.0 to LQ3.7
	Logic input (LI)	LI0.0 to LI3.7	LI0.0 to LI3.7
	Bit-specified word device	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Data (byte) (D)	D0 to D99	D0 to D99
	Data (word) (W)	W0 to W49	W0 to W49
	EFI input (byte) (EI)	EI110 to EI233	EI110 to EI133
	EFI output (byte) (EQ)	EQ10 to EQ22	EQ10 to EQ12
	Logic input (byte) (LD)	LD0 to LD3	-
	Logic input (word) (LW)	LW0 to LW1	-

[1] For precautions when using each device that can be monitored by GOT, refer to the following manual.
 • For GOT1000 series simulator

 ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
 • For GOT-A900 series simulator

 ☞ GT Designer2 Version□ Reference Manual

■ **SIEMENS PLC**

    (1) SIEMENS S7-300/400 Series

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Input relay (I)	I0000 to I5117	I0000 to I5117
	Output relay (Q)	Q0000 to Q5117	Q0000 to Q5117
	Bit memory (M)	M00000 to M20477	M00000 to M10237
	Bit-specified word device (Only for data register)	Monitoring available range of each word device	Monitoring available range of each word device
Word device	Input relay (IW)	IW0 to IW510	IW0 to IW510
	Output relay (QW)	QW0 to QW510	QW0 to QW510
	Bit memory (MW)	MW0 to MW2046	MW0 to MW1022
	Timer (present value) (T)	T0 to T511	T0 to T255
	Counter (present value) (C)	C0 to C511	C0 to C255
	Data register (DB)	DB1.DBW0 to DB1.DBW65534 DB2.DBW0 to DB2.DBW65534 • • DB4094.DBW0 to DB4094.DBW65534 DB4095.DBW0 to DB4095.DBW65534	-

    *1   For precautions when using each device that can be monitored by GOT, refer to the following manual.
        • For GOT1000 series simulator

            ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)

        • For GOT-A900 series simulator

            ☞ GT Designer2 Version□ Reference Manual

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(2) SIEMENS S7-200 Series

	Device name	GOT monitoring available range [1]	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
Bit device	Variable memory (V)	V0 to V51197	-
	Input relay (I)	I00 to I77	I00 to I77
	Output relay (Q)	Q00 to Q77	Q00 to Q77
	Bit memory (M)	M000 to M317	M000 to M317
	Special memory (SM)	SM0000 to SM1947	-
	Timer (T)	T0 to T255	T0 to T255
	Counter (C)	C0 to C255	C0 to C255
	Sequence control relay (S)	S000 to S317	-
Word device	Variable memory (VW)	VW0 to VW5118	VW0 to VW1022
	Input relay (IW)	IW0 to IW6	IW0 to IW6
	Output relay (QW)	QW0 to QW6	QW0 to QW6
	Analog input (AIW)	AIW0 to AIW30	-
	Analog output (AQW)	AQW0 to AQW30	-
	Bit memory (MW)	MW0 to MW30	MW0 to MW30
	Special memory (SMW)	SMW0 to SMW192	-
	Timer (T)	T0 to T255	T0 to T255
	Counter (C)	C0 to C255	C0 to C255
	High speed counter (HC)	HC0 to HC2	-
	Sequence control relay (SW)	SW0 to SW30	-

[1]   For precautions when using each device that can be monitored by GOT, refer to the following manual.
  • For GOT1000 series simulator

   ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
  • For GOT-A900 series simulator

   ☞ GT Designer2 Version□ Reference Manual

4. SCREEN CONFIGURATION OF GT SIMULATOR3

4.1 Screen Configuration and Basic Operation

4.1.1 Screen configuration

This section describes screen configuration.

Title Bar

Tool Bar

☞ 4.3 Tool Bar

Menu Bar

☞ 4.2 Menu Bar

Status Bar *1

Dropdown menu
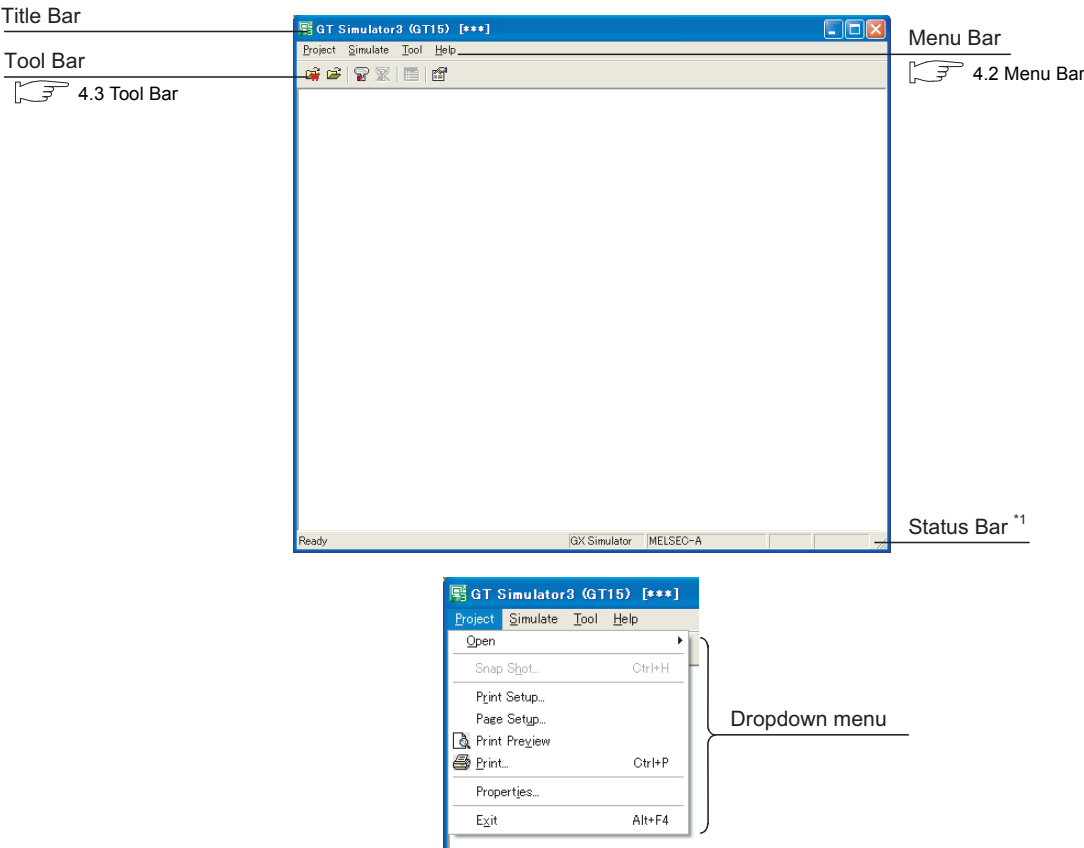
*1 When using the GOT1000 series (GT11/GT10) simulator, the whole status bar can not be displayed as the screen size is 320 × 240 dots or less.
To display the whole status bar, enlarge the window.

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4.1.2 Basic operation

This section describes basic operation.
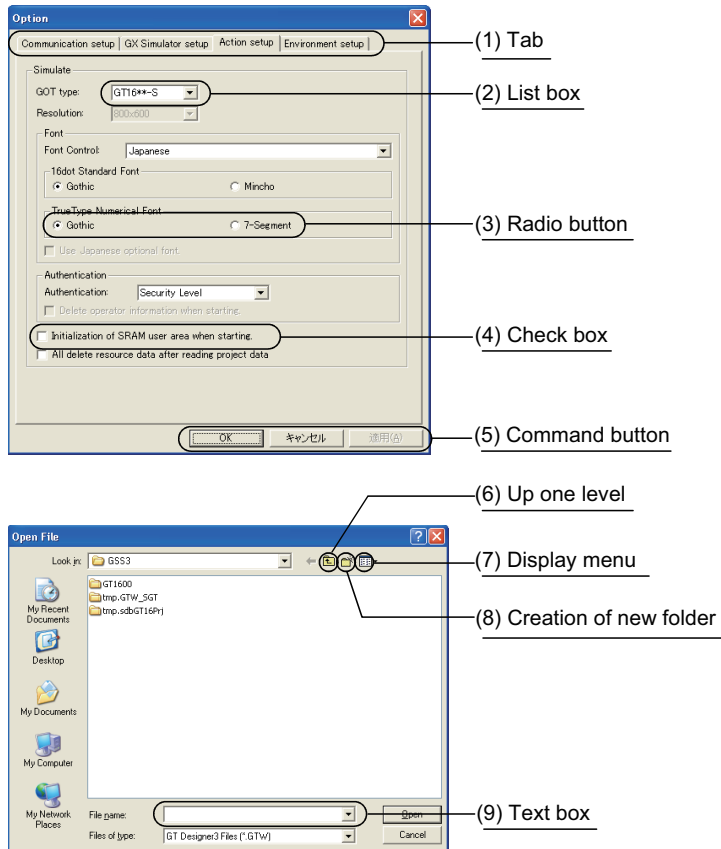
(1) Tab
Click [   ] to switch from one tab to another.

(2) List box
Click ▼ to display the selection list, then click and select an item.

(3) Radio button
Select an item by clicking the corresponding ○.

(4) Check box
When executing the item, click □ to put a check mark ✔.

(5) Command button
The command buttons such as [OK] and [Cancel] are provided. Click the command button indicating desired operation.

(6) Up one level
Displays the level one up from the current folder.

(7) Display menu
Provides the viewing mode of the folders and files in the current folder; select from detailed display, list display and another modes.

(8) Creation of new folder
Displays the folders and files in the current folder; select from detailed display, list display and other modes.

(9) Text box
Enter a text from the keyboard.

4.2 Menu Bar

This section describes commands assigned to the menu bar.
In this section, the screen of GOT1000 series (GT15) simulator is used for the explanation.

Project
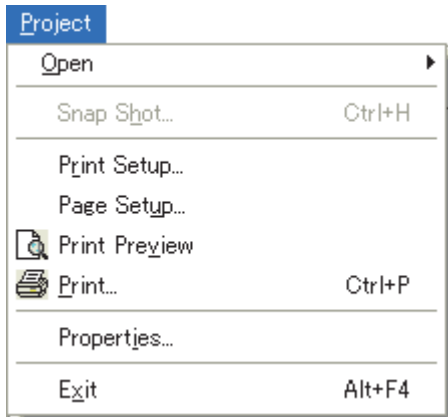
The Project menu contains options for project data reading, Snap Shot and printing.

☞ • 5. GT SIMULATOR3 OPERATING METHOD
   • 6. FUNCTIONS OF GT SIMULATOR3

Simulate
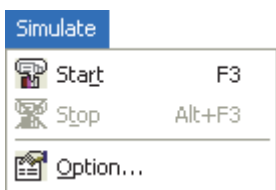
The Simulate menu contains options for starting/exiting simulation and GT Simulator3 settings.

☞ 5. GT SIMULATOR3 OPERATING METHOD

Tool
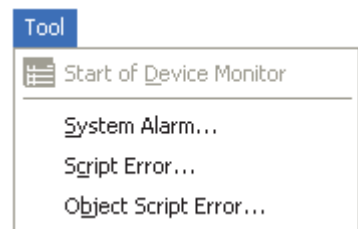
The Tool menu contains options for starting/exiting Device Monitor and displaying each error information.

☞ • 6. FUNCTIONS OF GT SIMULATOR3
   • 7. DEVICE MONITOR

Help
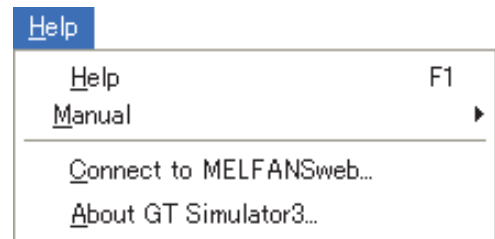
The Help menu contains functions for displaying the GT Designer3 Help and the PDF manual related to the GT Simulator3, as well as for checking the software version.

☞ 4.4 How to use HELP

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4.3 Tool Bar

This section describes the tool bar.

■ **Before simulating**

• For GOT1000 series simulator

	Name	Description
	Open a Project	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
	Open a File	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
	Start of simulator	Executes simulation with project data simulated previous time. (☞ 5.4 Executing a simulation)
	Option setup	Displays the option dialog box. (☞ 5.3 Option Setting)

• For GOT-A900 series simulator

	Name	Description
	Open a Project	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
	Start of simulator	Executes simulation with project data simulated previous time. (☞ 5.4 Executing a simulation)
	Option setup	Displays the option dialog box. (☞ 5.3 Option Setting)

■ **While simulating**

• For GOT1000 series simulator

	Name	Description
	Open a Project	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
	Open a File	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
	End of simulator	Terminates the simulation. (☞ 5.8 Exiting from GT Simulator3)
	Device Monitor	Starts Device Monitor. [*1] (☞ 7. DEVICE MONITOR)
	Option setup	Displays the Option dialog box. [*2] (☞ 5.3 Option Setting)

*1   Clicking this during Device Monitor operation terminates the Device Monitor.
*2   Only the check of the [Option] settings is available. (Setting cannot be changed.)

• For GOT-A900 series simulator

Name	Description
Open a Project	Reads the project data to be simulated. (☞ 5.5 Opening the Project)
End of simulator	Terminates the simulation. (☞ 5.8 Exiting from GT Simulator3)
Device Monitor	Starts Device Monitor. [1] (☞ 7. DEVICE MONITOR)
Option setup	Displays the Option dialog box. [2] (☞ 5.3 Option Setting)

[1] Clicking this during Device Monitor operation terminates the Device Monitor.
[2] Only the check of the [Option] settings is available. (Setting cannot be changed.)

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4.4 How to use HELP

Using Help allows to display the GT Designer3 Help and the PDF manuals related to GT Simulator3, as well as to check the software version.

■ Operating method

1. Click an item within [Help].

Item	Description	
Help	Displays the GT Designer3 Help.	
Manual	Index	Displays the PDF manual.
Connection to MITSUBISHI ELECTRIC FA Global Website...	Connects to the MITSUBISHI ELECTRIC FA Global Website.	
About GT Simulator3	Used to check the GT Simulator3 version.	

■ Displaying the GT Designer3 Help

The simple operation method of GT Simulator3 can be confirmed with the GT Designer3 Help.
The following shows how to display the GT Designer3 Help.
   • Select [Help] → [Help] from the menu.
   • Press the [F1] key.

Displaying the GT Designer3 Help by pressing the [F1] key shows the contents that correspond to the status of GT Designer3.

Example) When the setting dialog box of the option ([Action setup] tab) is displayed
Pressing the [F1] key displays the GT Designer3 Help with the page of the option setting dialog box ([Action setup] tab).

Depending on the status of GT Simulator3, the GT Designer3 Help may not display the corresponding contents.

■ Displaying a PDF manual

POINT

Before viewing the PDF manual

To view the PDF manual, GT Manual and Adobe® Reader® must be installed.

1. Select [Help] → [Index] from the menu to display the following screen. Click the manual to be viewed.

Click.
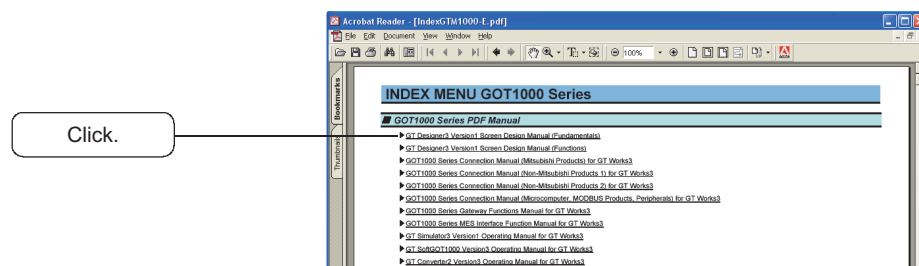
* The illustration above is given as an example and different from the actual page.

2. The selected manual is displayed. (For details of the Adobe® Reader® operating method, refer to Help of Adobe® Reader®.)

Switches the current display to the page of the selected section.

Returns to INDEX MENU.
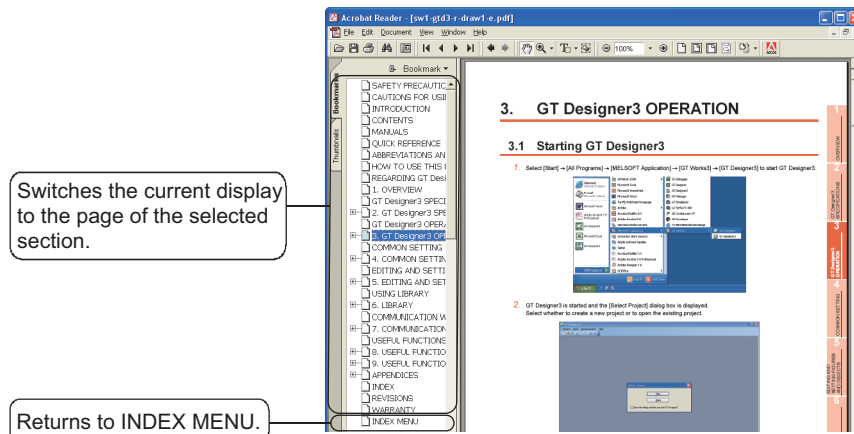
*   The illustration above is given as an example and different from the actual page.
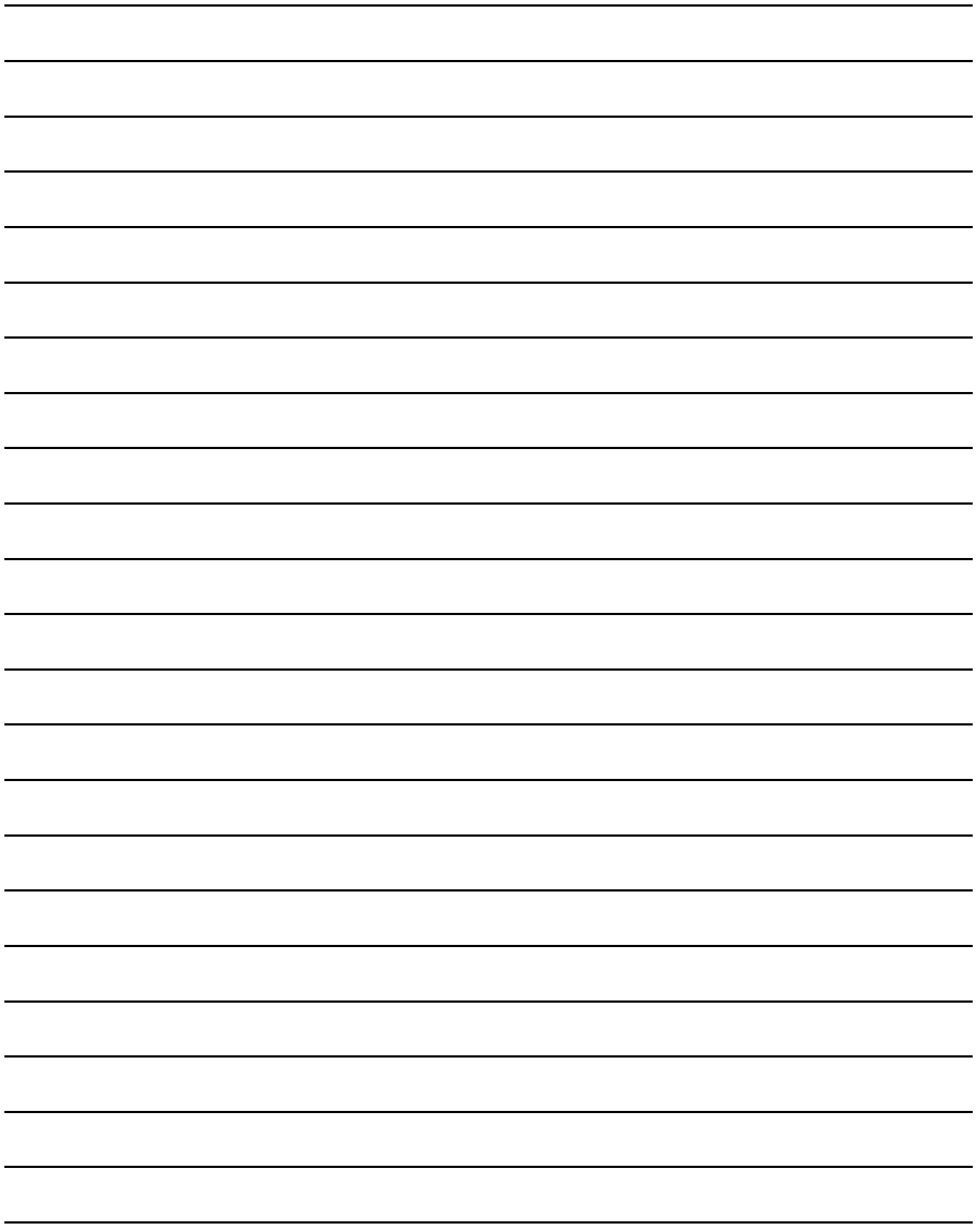
■ **Confirming GT Simulator3 version**

1. Select [Help] → [About GT Simulator3] from the menu to display the [About GT Simulator3] dialog box.

(Example: For Version 1.17T)

Item	Description
GT Simulator3	Displays GT Simulator3 version.
Name	Displays the name entered during GT Simulator3 installation.
Company	Displays the company name entered during GT Simulator3 installation.
Product ID	Displays the product ID entered during GT Simulator3 installation.
OK	Closes the About GT Simulator3 screen.

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5. GT SIMULATOR3 OPERATING METHOD

5.1 Operating Procedure

The following describes the operating procedure of GT Simulator3.

■ When connecting GT Simulator3 and GX Simulator

```
┌─────────────────────────────┐
│           Start             │
└─────────────────────────────┘
          │
  ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
  │ Only for when using
  │ GX Developer
  │      ▼
  │ ┌─────────────────────────────┐         ☞  GX Developer Version□ Operating Manual (Startup)
  │ │ Start GX Developer.         │
  │ └─────────────────────────────┘
  │      │
  │      ▼
  │ ┌─────────────────────────────┐         ☞  GX Simulator Version□ Operating Manual
  │ │ Start GX Simulator. *1      │
  │ └─────────────────────────────┘
  └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
          ▼
  ┌─────────────────────────────┐           ☞  5.2 Starting GT Simulator3
  │ Start GT Simulator3.        │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  5.2 Starting GT Simulator3
  │ Choose a simulator.         │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  5.3 Option Setting
  │ Make GT Simulator3 option   │
  │ setting. *2                 │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  5.5 Opening the Project
  │ Open a project data to      │
  │ simulate. *2                │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  5.7 Simulating Operation
  │ Perform debugging on GT     │
  │ Simulator3.                 │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  7. DEVICE MONITOR
  │ The device value of         │
  │ simulated monitor data      │
  │ should be checked and       │
  │ changed with the device     │
  │ monitor function.           │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐           ☞  5.8 Exiting from GT Simulator3
  │ Exit from GT Simulator3.    │
  └─────────────────────────────┘
          ▼
  ┌─────────────────────────────┐
  │           EXIT              │
  └─────────────────────────────┘
```

*1 In the case that GX Developer is not used, GX Simulator is automatically started when the simulation is executed on GT Simulator3.

*2 To simulate the project data previously simulated, select [Simulate] → [Start] from the menu.
    Refer to the below for details.

    ☞ 5.4 Executing a simulation

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■ When connecting GT Simulator3 and GX Simulator2

```
┌─────────────────────────────────┐
│             Start               │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Start GX Works2.                │     👉 GX Works2 Version□ Operating Manual (Common)
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Start GX Simulator2. *1         │     👉 GX Works2 Version□ Operating Manual (Common)
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Start GT Simulator3.            │     👉 5.2 Starting GT Simulator3
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Choose a simulator.             │     👉 5.2 Starting GT Simulator3
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Make GT Simulator3 option setting.*2 │  👉 5.3 Option Setting
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Open a project data to simulate.*2 │   👉 5.5 Opening the Project
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Perform debugging on GT Simulator3. │  👉 5.7 Simulating Operation
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ The device value of simulated monitor data │ 👉 7. DEVICE MONITOR
│ should be checked and changed with the device │
│ monitor function.               │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ Exit from GT Simulator3.        │     👉 5.8 Exiting from GT Simulator3
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│             EXIT                │
└─────────────────────────────────┘
```

*1   GX Simulator2 does not start automatically when GT Simulator3 starts a simulation. Start GX Simulator2 from GX Works2 in advance.

*2   To simulate the project data previously simulated, select [Simulate] → [Start] from the menu.
Refer to the below for details.

👉 5.4 Executing a simulation

■ When connecting GT Simulator3 and GX Simulator3

```
┌─────────────────────────────────┐
│             Start               │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  GX Works3 Operating Manual
│  Start GX Works3.               │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  GX Works3 Operating Manual
│  Start GX Simulator3. *1        │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.2 Starting GT Simulator3
│  Start GT Simulator3.           │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.2 Starting GT Simulator3
│  Choose a simulator.            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.3 Option Setting
│  Make GT Simulator3 option      │
│  setting.*2                     │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.5 Opening the Project
│  Open a project data to         │
│  simulate.*2                    │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.7 Simulating Operation
│  Perform debugging on GT        │
│  Simulator3.                    │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  7. DEVICE MONITOR
│  The device value of simulated  │
│  monitor data should be checked │
│  and changed with the device    │
│  monitor function.              │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐      ☞  5.8 Exiting from GT Simulator3
│  Exit from GT Simulator3.       │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│             EXIT                │
└─────────────────────────────────┘
```

*1   GX Simulator3 does not start automatically when GT Simulator3 starts a simulation. Start GX Simulator3 from GX Works3 in advance.

*2   To simulate the project data previously simulated, select [Simulate] → [Start] from the menu.
      Refer to the below for details.

☞   5.4 Executing a simulation

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■ When connecting GT Simulator3 and PLC CPU

```
        ┌──────────────────────────┐
        │          Start           │
        └──────────────────────────┘
                     │
        ┌──────────────────────────┐        ☞  • 2.3 PLC CPUs that Can Be Simulated
        │ Connect the personal computer │         • 2.4 Connection Cable
        │ and PLC CPU.             │
        └──────────────────────────┘
        ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─┐
        │ Only for when using        │       ☞  GX Developer Version□ Operating Manual (Startup)
        │ GX Developer/GX Works2     │
        │ Start GX Developer/GX Works2. │
        └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─┘
        ┌──────────────────────────┐
        │ Start GT Simulator3.      │       ☞  5.2 Starting GT Simulator3
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Choose a simulator.       │       ☞  5.2 Starting GT Simulator3
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Make GT Simulator3 option setting. │  ☞  5.3 Option Setting
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Power on the PLC CPU.     │       ☞  User's Manual for the PLC CPU you use
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Open a project data to simulate.*1 │  ☞  5.5 Opening the Project
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Perform debugging on GT Simulator3 │  ☞  5.7 Simulating Operation
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ The device value of simulated monitor data │  ☞  7. DEVICE MONITOR
        │ should be checked and changed with the device │
        │ monitor function.         │
        └──────────────────────────┘
        ┌──────────────────────────┐
        │ Exit from GT Simulator3.  │       ☞  5.8 Exiting from GT Simulator3
        └──────────────────────────┘
        ┌──────────────────────────┐
        │          EXIT            │
        └──────────────────────────┘
```

*1 To simulate the project data previously simulated, select [Simulate] → [Start] from the menu. Refer to the below for details.

☞ 5.4 Executing a simulation

POINT

About [Connection] of [Option]

The setting of [Connection] is reset to [GX Simulator] (Default) after exiting GT Simulator3.
When connecting GT Simulator3 and PLC CPU, set [Connection] to [CPU] again after starting GT Simulator3.

5.2 Starting GT Simulator3

This section describes how to select a simulator and start the GT Simulator3.

Concurrent use with GOT2000 series simulator
The GOT1000 series simulator or GOT-A900 series simulator can be used simultaneously with the GOT2000 series simulator.
By using these simulators simultaneously, the behavior of the GOT2000 series simulator can be compared with that of the GOT1000 or GOT-A900 series simulator.
Use the GOT2000 series simulator of version 1.117X or later.
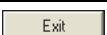
1. Use either one of the following methods to start the GT Simulator3.
- Select[tools] → [Simulator] → [Activate] from the menu of GT Designer3.
  When GT Simulator3 is activated, GT Simulator3 cannot be started by selecting the menu of GT Designer3.
- From the Windows® start menu[*1], select [MELSOFT][*2] → [GT Works3] → [GT Simulator3] to display the [GT Simulator3 Main Menu] dialog box.
  Select a simulator to be used, and click the [Start] button.

> *1 Select [All Programs] on the [Start] screen, or select [Start] → [All Programs].
> *2 [MELSOFT Application] appears for a version of GT Works3 earlier than 1.136S.
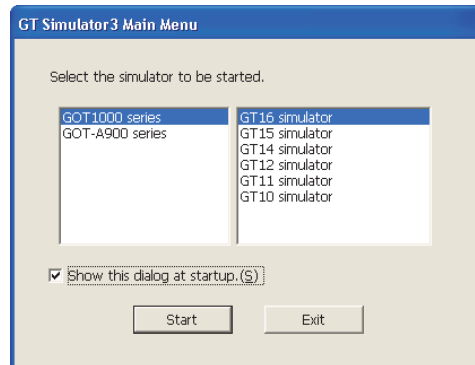
Item		Description
GOT1000 series	GT16 simulator	Select this item when starting [GOT1000 series GT16 simulator]. When simulating project data of GT16, select this item.
	GT15 simulator	Select this item when starting [GOT1000 series GT15 simulator]. When simulating project data of GT15, select this item.
	GT14 simulator	Select this item when starting [GOT1000 series GT14 simulator]. When simulating project data of GT14, select this item.
	GT12 simulator	Select this item when starting [GOT1000 series GT12 simulator]. When simulating project data of GT12, select this item.
	GT11 simulator	Select this item when starting [GOT1000 series GT11 simulator]. When simulating project data of GT11, select this item.
	GT10 simulator	Select this item when starting [GOT1000 series GT10 simulator]. When simulating project data of GT10, select this item.
GOT-A900 series	A900 simulator	Select this item when starting [GOT-A900 series simulator]. When simulating project data of GOT-A900 series, select this item.
Show this dialog at startup.		Uncheck this item when you do not want to display this dialog box at the GT Simulator3 startup from the next time.
Start		Starts GT Simulator3.
Exit		Closes this dialog box without starting GT Simulator3.

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2. GT Simulator3 is started.

> **POINT**
>
> **Unchecking [Show this dialog at startup.]**
> You cannot choose the simulator at the GT Simulator3 startup from the next time after unchecking [Show this dialog at startup.]
> Make the setting to display the GT Simulator3 Main Menu dialog box at the startup on the [Environment setup] tab of [Option].
> ☞ 5.3 Option Setting

5.3 Option Setting

This section describes how to set GT Simulator3 connection type, GOT type to be simulated, sequence program to be used and others.

1. Perform either of the following operations.

  • Click ⬛ (Option).
  • Select [Simulate] → [Option].
  • Right-click the mouse and select [Option].

2. The Option dialog box is displayed.
   After setting each items, click the [OK] button.
   Refer to the below for details of Option dialog box.

   ☞ • 5.3.1 Setting items (GOT1000 series simulator)
      • 5.3.2 Setting items (GOT-A900 series simulator)

POINT

Setting [Option]
Make the [Option] setting before starting simulation. The [Option] setting cannot be changed while simulating. Exit from GT Simulator3 once and restart GT Simulator3.

5.3.1 Setting items (GOT1000 series simulator)

■ Communication setup tab

Sets the connection target, PLC CPU type, communication port, and baud rate.

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| Communication setup | GX Simulator setup | Action setup | Environment setup |

Item	Description
Connection	Select a GT Simulator3 connection type. GX Simulator : Set to perform a simulation with GX Simulator. GX Simulator2 : Set to perform a simulation with GX Simulator2. GX Simulator3 : Set to perform a simulation with GX Simulator3. CPU : Set to perform a simulation by connecting a PLC CPU via RS-232. USB : Set to perform a simulation by connecting a PLC CPU via USB.

Sets the CPU type used in GX Simulator/GX Simulator2 and the PLC CPU connected.

Connection	CPU type	Description
GX Simulator	MELSEC-A	Set when use the following PLC CPU. • ACPU • Motion controller CPU (A series) • Third party PLC
	MELSEC-QnA	Set when use QnACPU.
	MELSEC-Q	Set when use QCPU (Q mode).
	MELSEC-Q(A-Mode)	Set when use QCPU (A mode).
	MELSEC-FX	Set when use FXCPU.
GX Simulator2	MELSEC	Set when use the following PLC CPU. • QCPU (Q mode) • LCPU • FXCPU
GX Simulator3	MELSEC	Set when using RCPU.
CPU	MELSEC iQ-F	Set when use MELSEC iQ-F.
	MELSEC-A	Set when use ACPU or motion controller CPU (A series).
	MELSEC-QnA	Set when use QnACPU.
	MELSEC-Q	Set when use QCPU (Q mode).
	MELSEC-Q(A-Mode)	Set when use QCPU (A mode).
	MELSEC-L	Set when using LCPU.
	MELSEC-FX	Set when use FXCPU.
	MELDAS C6*	Set when use MELDAS C6/C64.
	OMRON SYSMAC	Set when use OMRON PLC.
USB	MELSEC iQ-R	Set when using RCPU.
	MELSEC-Q	Set when use QCPU (Q mode).
	MELSEC-L	Set when using LCPU.
	MELSEC-FX	Set when using FXCPU.

Item	Description
Comm. port	Sets the PC side communication ports (COM1 to COM6). Selectable only when [CPU] is selected for [Connection].
Baud rate	The transmission speed between MELDAS C6* and GT Simulator2 is 19.2kbps (fixed). The other transmission speed to/from the CPU is 9.6kbps (Default).

POINT

About [Connection] of [Option]

The setting of [Connection] is reset to [GX Simulator] (Default) after exiting GT Simulator3.

When connecting GT Simulator3 and GX Simulator2, set [Connection] to [GX Simulator2] after starting GT Simulator3.

When connecting GT Simulator3 and PLC CPU, set [Connection] to [CPU] after starting GT Simulator3.

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■ **GX Simulator setup tab**

Set the program used in GX Simulator, or the connection details for GX Simulator2 or GX Simulator3.

Item	Description
GX Simulator setup	Set the sequence program to be used when simulating with GX Simulator. • Default: The simulation is performed with the sequence program with only END instruction. • GX Developer Project: The simulation is performed with any sequence program. When using an arbitrary sequence program, click the [Browse] button and select a GX Developer project.
GX Simulator2 setup	Set the connection method when simulating with GT Simulator3. • Connect to activated GX Simulator2 (one of the projects). • Connect to activated GX Simulator2 (multiple projects). When connecting to multiple activated GX Simulator2, click the [Detail] button and set [GX Works2 Project detail setup][*1].
GX Simulator3 setup	Set the connection details for GX Simulator3.
	Checkbox — Enables a setting.
	Host — Set a simulator as the host station.
	NW No. — Set a network number. The setting range is [0] to [239].
	PC No. — Set a station number. The setting range is [0] to [255].
	CPU No. — Set a CPU number. The setting range is [0] to [4].
	Connecting Simulator No. — Set a system number and a CPU number appearing in GX Simulator3. Enter a system number, a period (.), and a CPU number in that order. The setting range of the system number is [1] to [64]. The setting range of the CPU number is [1] to [4].
	About the valid simulator setting — Displays the description dialog of the valid simulator setting.
	Add Row — Adds a detail setting row in the detail setting table. Up to 32 rows can be added.
	Delete Row — Deletes a detail setting row selected in the detail setting table.

*1   GX Works2 Project detail setup
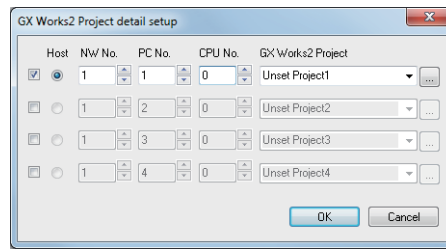
Item	Description
Set whether to enable or disable	Set whether to enable or disable the GX Works2 project detail setup.
Host	Select the GX Works project to be set as the host.
NW No.	Set the network No.
PC No.	Set the station No.
CPU No.*1	Set the target CPU No., when configuring a multiple CPU system.
GX Works2 Project	Click the […] button, and then select a GX Works2 project.

*1   When using system labels, do not specify the own CPU No.

POINT

GX Developer Project

When [Default] is selected, the GT Simulator3 performs simulations assuming the following CPUs.
  • Universal model QCPU: Q26UDHCPU
  • QCPU: Q25HCPU
  • QnACPU: Q4ACPU
  • ACPU: A4UCPU
  • FXCPU: FX2N(C) series

When the project data has been created assuming a CPU other than the above, a normal simulation may not be performed due to the difference of the device range.

If the simulation cannot be performed, create a project (END ladder) for the CPU to be simulated with the GX Developer and specify the program to perform simulation.

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■ **Action setup tab**

Sets GOT type, resolution, font and others.

Item	Description
GOT type	Sets GOT type for simulating. GT165*-V: Simulates as GT165*-V (640 × 480 dots) GT16**-V: Simulates as GT16**-V (640 × 480 dots) GT16**-S: Simulates as GT16**-S (800 × 600 dots) GT16**-X: Simulates as GT16**-X (1024 × 768 dots) GT15**-Q: Simulates as GT15**-Q (320 × 240 dots) GT155*-V: Simulates as GT155*-V (640 × 480 dots) GT15**-V: Simulates as GT15**-V[*1] (640 × 480 dots) GT15**-S: Simulates as GT15**-S (800 × 600 dots) GT15**-X: Simulates as GT15**-X (1024 × 768 dots) GT14**-Q: Simulates as GT14**-Q (320 × 240 dots) GT12**-V: Simulates as GT12**-V (640 × 480 dots) GT11**-Q: Simulates as GT11**-Q (320 × 240 dots) GT10**-Q: Simulates as GT10**-Q (320 × 240 dots) GT1030 : Simulates as GT1030 (288 × 96 dots) GT1020 : Simulates as GT1020 (160 × 64 dots)
Display Magnification Ratio[*2]	Select a display magnification. (× 1 to × 4) The display magnification can be changed during simulation.
Backlight Pattern[*3]	Select the three-color pattern to be used for the backlight. ([Green/Orange/Red] or [White/Pink/Red])
Font Control	Selects a font language used for simulation. Select the same font language as set in [System Environment] of GT Designer3. Japanese : Japanese is used for simulation. Japanese (supporting Europe) : Japanese (supporting Europe) is used for simulation. Chinese (Simplified) : Chinese (Simplified) is used for simulation. Chinese (Simplified)(supporting Europe) : Chinese (Simplified) (supporting Europe) is used for simulation. Chinese (Traditional)(supporting Europe) : Chinese (Traditional) (supporting Europe) is used for simulation.
16dot Standard Font	Select a font type of the 16-dot standard font.[*4]
TrueType Numerical Font	Select a font type of the TrueType numerical font.
Use Japanese optional font.[*5]	This item can be set only when selecting [Chinese (Simplified)] or [Chinese (Simplified)(supporting Europe)] for [Font Control]. Do not check this item normally (when displaying Chinese (Simplified)). When checking this item, Japanese is used for objects on which Kanji region setting is not provided.

(Continued to next page)

Item	Description
Authentication[*5]	Select an authentication method. Select the same authentication method set in [System Environment] of GT Designer3.
Delete operator information when starting.[*5]	The item can be checked only when [Operator] is selected for [Authentication]. With checking the item, the operator information registered on GT Simulator3 is deleted when starting simulating project data. (When forgetting the password for [Operator], the operator information can be reset.)
KANA KANJI Conversion[*7]	Select a version of the Kana-kanji conversion function.
Initialization of SRAM user area when starting.[*8]	Check this item to initialize the SRAM user area when starting the simulation for the first time.
All delete resource data after reading project data	Check this item when deleting all data in the folder below after reading project data. • For GOT1000 series (GT16) simulator (Work folder[*6]) \GSS3\GT1600\Drive\A, B, E • For GOT1000 series (GT15) simulator (Work folder[*6]) \GSS3\GT1500\Drive\A, B • For GOT1000 series (GT14) simulator (Work folder[*6]) \GSS3\GT1400\Drive\A,D,E • For GOT1000 series (GT12) simulator (Work folder[*6]) \GSS3\GT1200\Drive\A,D • For GOT1000 series (GT11) simulator (Work folder[*6]) \GSS3\GT1100\Drive\A,D • For GOT1000 series (GT10) simulator (Work folder[*6]) \GSS3\GT1000\Drive\D

*1 For GOTs that can be simulated, refer to the following.

    3.1 GOT that Can Be Simulated

*2 This setting item is available for the GOT1000 series (GT10) simulator only.
*3 This setting item is available only when [GT1030] or [GT1020] is selected in [GOT type].
*4 The font is set to [Mincho] automatically when selecting [Chinese (Simplified)] or [Chinese (Simplified)(supporting Europe)] for [Font Control].
*5 This setting item is available for the GOT1000 series (GT16/GT15/GT14) simulator only.
*6 The following shows the work folder of each OS.
  • Windows 8.1: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows 8: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows 7: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows Vista: Users\(User name)\AppData\Local\MITSUBISHI\GSS3
  • Windows XP: Document and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3
*7 This setting item is available for the GOT1000 series (GT15) simulator only.
*8 This setting item is available for the GOT1000 series (GT16) simulator only.

POINT

Recipe files

The changes on a recipe file (made by GT Designer3) will not be reflected (over written) if another recipe file of the same name already exists in the GT Simulator3.
Accordingly, reading/writing of the device values cannot be performed with the changed setting.
In the above case, check [All delete user data after reading project data].

■ Environment setup tab

Sets title bar, exit dialog box and main menu display.
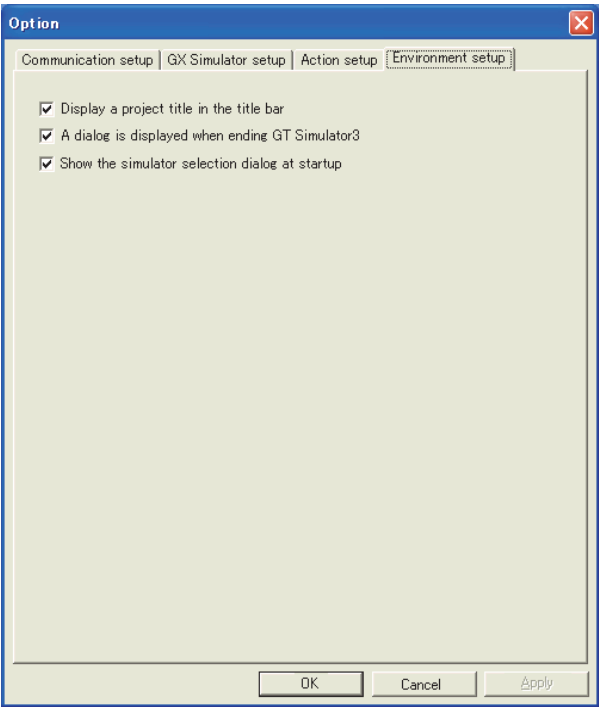
Item	Description
Display a project title in the title bar	Check this to display title of project data on the title bar.
A dialog is displayed when ending GT Simulator3	Check this to display the exit confirmation dialog box when exiting GT Simulator3.
Show the simulator selection dialog at startup	Check this to display GT Simulator3 Main Menu dialog box when GT Simulator3 is started.

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5.3.2 Setting items (GOT-A900 series simulator)

■ Communication setup tab

Sets the connection target, PLC CPU type, communication port, and baud rate.

| Communication setup | Action setup | Environment setup |

Item	Description			
Connection	Selects a GT Simulator3 connection type. GX Simulator : Set when simulating with GX Simulator. CPU : Set when simulating with the PLC CPU connected.			
	Sets the CPU type used in GX Simulator and the PLC CPU connected.			
	Connection	CPU type	Description	
	GX Simulator	ACPU	Set when use the following PLC CPU. • ACPU • Motion controller CPU (A series) • Third party PLC	
		QnACPU, MELDAS C6*	Set when use QnACPU or MELDAS C6/C64.	
		QCPU	Set when use QCPU (Q mode).	
		QCPU-A	Set when use QCPU (A mode).	
		FX	Set when use FXCPU.	
	CPU	ACPU	Set when use ACPU or motion controller CPU (A series).	
		QnACPU, MELDAS C6*	Set when use QnACPU or MELDAS C6/C64.	
		QCPU	Set when use QCPU (Q mode).	
		QCPU-A	Set when use QCPU (A mode).	
		FX	Set when use FXCPU.	
Comm. port	Sets the PC side communication ports (COM1 to COM6). Selectable only when [CPU] is selected for [Connection].			
Baud rate	Sets the transmission speed to/from the CPU (9.6kbps to 115.2kbps). Selectable only when [CPU] is selected for [Connection]. The setting range differs depending on the CPU type set on [Connection].			

POINT

(1) [Connection] of [Option]

The setting of [Connection] is reset to [GX Simulator] (Default) after exiting GT Simulator3.

When connecting GT Simulator3 and PLC CPU, set [Connection] to [CPU] again after starting GT Simulator3.

(2) Setting of [Baud rate]

For connecting to MELDAS C6/C64 or FXCPU, make the following setting.

• For connection to the MELDAS C6/C64

  Set the baud rate to "19.2Kbps".

• For connecting to FXCPU.

  Make setting of the baud rate supported by the connected FXCPU.

  When the set baud rate is not supported, communication is made at 9.6kbps.

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■ Action setup tab

Sets GOT type, resolution, print data and others.

| Communication setup | Action setup | Environment setup |

Item	Description
GOT type	Sets GOT type for simulating. GOT-A950 : Simulates as A950GOT (320 × 240 dots) GOT-A956W : Simulates as A956WGOT (480 × 234 dots) GOT-A960 : Simulates as A960GOT (640 × 400 dots) GOT-A97* : Simulates as A97*GOT (640 × 480 dots) GOT-A985 : Simulates as A985GOT (-V) (800 × 600 dots) SoftGOT : Simulates as GT SoftGOT2.
Resolution	Sets Screen Size of GT Simulator3 (640 × 480 to 1280 × 1024 dots). Selectable only when [SoftGOT2] is selected for [GOT type].
Print data	Select data format for printing/saving in MemCard Folder of Alarm History, report and recipe function. Selectable only when [SoftGOT2] is selected for [GOT type]. Text file : Data is saved as a Text file. Resolution CSV file : Data is saved as a CSV file
Delete recipe file after reading data	Turn on this check box to delete the recipe data in the MemCard folder after monitor data reading.
GX Developer project	Sets the sequence program to be used for simulating. Default : Simulation is performed with the sequence program with one END instruction. Fixed : Simulation is performed with any sequence program. Click the [Browse] button and select a GX Developer project.

POINT

(1) GX Developer Project

When [Default] is selected, the GT Simulator3 performs simulations assuming the following CPUs.

- QCPU : Q25HCPU
- ACPU : A4UCPU
- QnACPU : Q4ACPU
- FXCPU : FX2N(C) series

When the project data has been created assuming a CPU other than the above, a normal simulation may not be performed due to the difference of the device range.

If the simulation cannot be performed, create a project (END ladder) for the CPU to be simulated with the GX Developer and specify the program to perform simulation.

(2) Recipe files

The changes on a recipe file (made by GT Designer2) will not be reflected (over written) if another recipe file of the same name already exists in the GT Simulator2.

Accordingly, reading/writing of the device values cannot be performed with the changed setting.

In the above case, check [Delete recipe file after reading data].

■ Environment setup tab

Sets the main menu display.
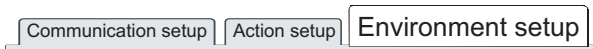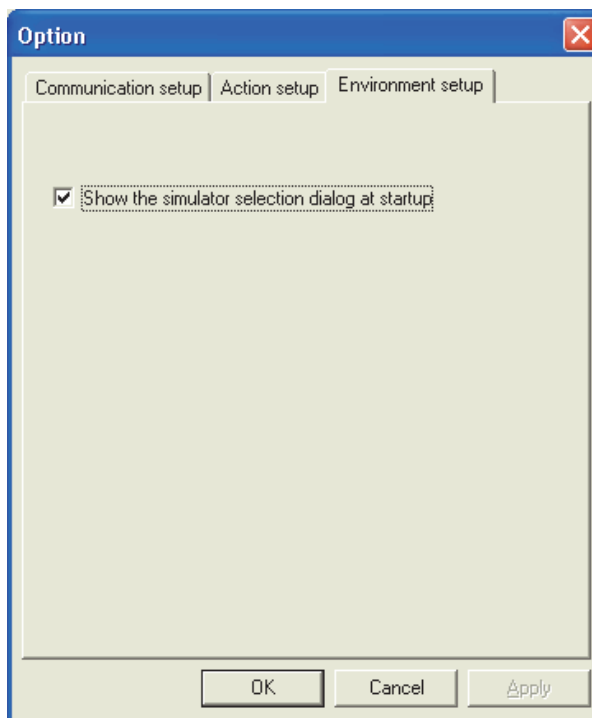
Item	Description
Show the simulator selection dialog at startup	Check this to display GT Simulator3 Main Menu dialog box when GT Simulator3 is started.

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5.4 Executing a simulation

This section describes how to perform the simulation with the project data simulated previously.

1. Perform either of the following operations.

- Click (Start).
- Choose [Simulate] → [Start].
- Right-click the mouse and select [Start].

2. Confirmation dialog box is displayed.
The message displayed changes with the setting contents in [Option].
After confirming the displayed contents, click the [Yes] button or the [OK] button.

When connecting to GX Simulator

When connecting to CPU directly

3. The simulation of the project data simulated previously.
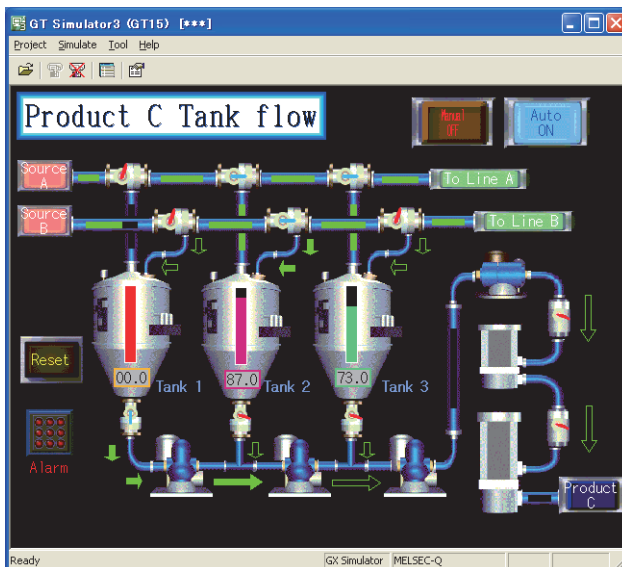
POINT

(1) **If simulation is performed for the first time**
Select [Project] → [Open] and set a project data to be simulated.
☞ 5.5 Opening the Project
When simulation is performed for the first time, performing the operation in this section causes GT Simulator3 to show the Utility.

(2) **When project data has been changed after previous simulation**
Select [Project] → [Open] and set the project data to be simulated before starting the simulation.
☞ 5.5 Opening the Project

5.5 Opening the Project

Set a project data for simulating and start simulating.
The project data that can be set is GT Designer3 project and GT Designer3 file.

(1) For GOT1000 Series simulator
- GT Designer3 project • • • • • • • • • • • • • • • Project data created with GT Designer3
- A single file format project of GT Designer3 (*.GTW) • • • Compressed data of projects created with GT Designer3

(2) For GOT-A900 Series simulator
- GT Designer2 file (*.GTD) • • • • • • • • • • • • • Project data created with GT Designer2 or GT Designer2 Classic

5.5.1 Open the GT Designer3 Project

1. Perform either of the following operations.

- Click [icon] (Open a Project).
- Select [Project] → [Open] → [Project] from the menu.
- Right-click the mouse and select [Open] → [Project] from the menu.

2. The Open a project. dialog box is displayed.
Set up the following items and click the button.
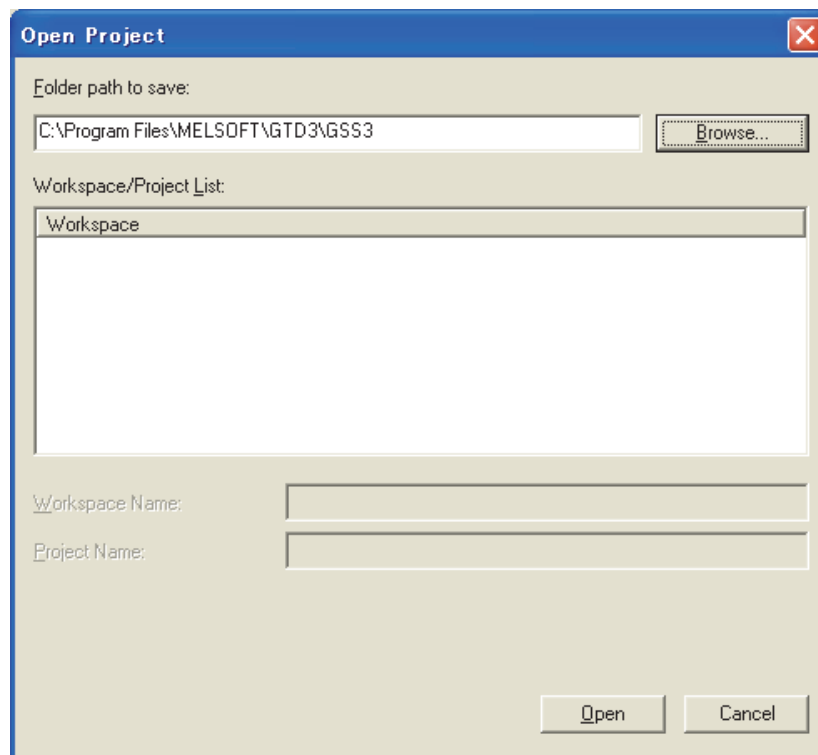
Item	Description
Folder path to save	Enter the path of the location where the workspace is stored. The save destination path can be set by the [Browse] button also. Up to 200 characters can be entered.
Workspace/Project List	Displays the workspace or project existing in the same path entered for [Folder path to save]. Double-click the workspace to display the projects stored in the workspace. Select the project to open.
Workspace Name	Displays the workspace name where the project selected in [Workspace/Project List] is stored.
Project Name	Displays the project name selected in [Workspace/Project List].

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3. Confirmation dialog box is displayed.
The message displayed changes with the setting contents in [Option].
After confirming the displayed contents, click the [Yes] button or the [OK] button.

When connecting to GX Simulator

When connecting to CPU directly

4. The simulation starts.
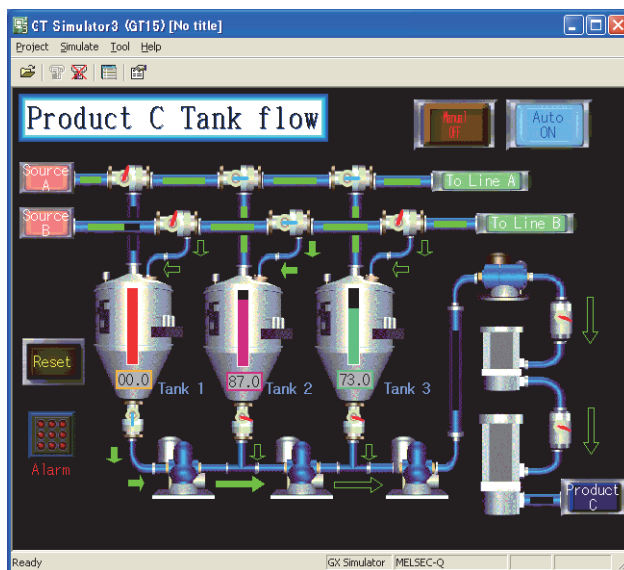
5.5.2 Open a single file format project of GT Designer3

1. Perform either of the following operations.

- Click 📂 (Open a File).
- Select [Project] → [Open] → [File] from the menu.
- Right-click the mouse and select [Open] → [File] from the menu.

2. The Open File dialog box is displayed.
Set up the following items and click the [Open] button.
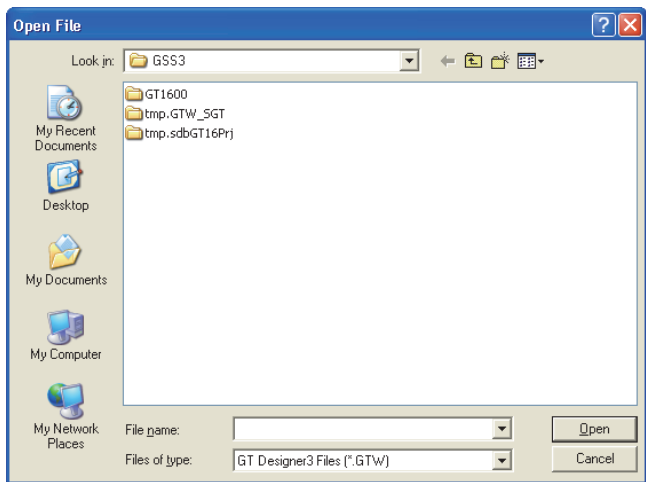
Item	Description
Look in	Selects the area where the project data is saved.
File name	Sets project data name for monitoring.
Files of type	Select the file format of the project data. GT Designer3 Files (*.GTW): GTW format

3. Confirmation dialog box is displayed.
The message displayed changes with the setting contents in [Option].
After confirming the displayed contents, click the [Yes] button or the [OK] button.

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4. The simulation starts.

5.5.3 Open the GT Designer2 file

1. Perform either of the following operations.

- Click ![open icon] (Open a Project).
- Select [Project] → [Open].
- Right-click the mouse and select [Open].

2. The GT Designer2 File dialog box is displayed.
Set up the following items and click the [Open] button.
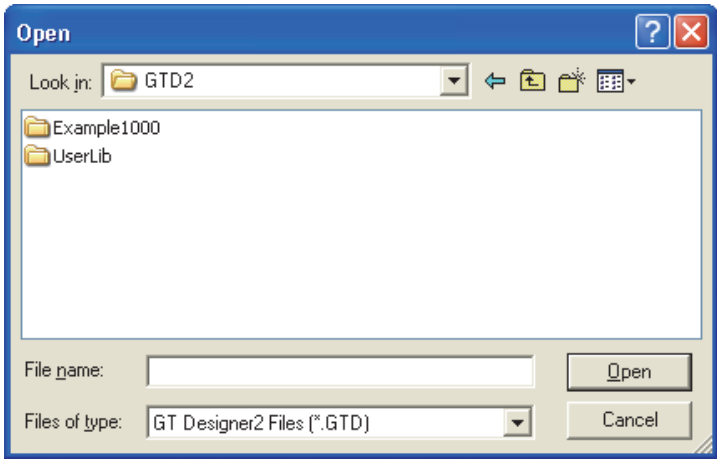
Item	Description
Look in	Selects the area where the project data is saved.
File name	Sets project data name for simulating.
Files of type	Select the file format of the project data. GT Designer2 Files (*.GTD): GTD format GT Designer Files (A9GOTP.GOT): A9GOTP.GOT format

3. Confirmation dialog box is displayed.
The message displayed changes with the setting contents in [Option].
After confirming the displayed contents, click the [Yes] button or the [OK] button.

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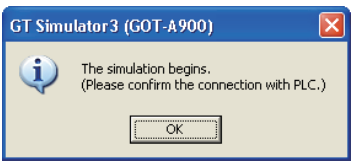
4. When using GOT-A900 series simulator, the [Reading data] dialog box is displayed.

After setting each items, click the [Reading] button.
Refer to the below for details.

5. The simulation starts.

5.6 Setting Reading Data (GOT-A900 Series Simulator)

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A900

This section describes how to set monitor data to be simulated.

■ **Setting tab**

Monitor data to be read is set.

| Setting | Base | Window | Others |

Item	Description
Object	Sets monitor data to be read. All data : Set when reading all data in monitor data. Select data : Set when reading a part of monitor data. Select data to be read on the Base, Window or Others tab.
Delete all old monitor data	Turn on the check box when reading the monitor data of the selected project after deletion of the already read monitor data.
Project title	Title of monitor data is displayed.
Project ID	Project ID of monitor data is displayed.
GOT type	GOT type of monitor data is displayed.
Transfer size	The settings and data size of the monitor data to be read appear.
Reading	Reads the monitor data and start the simulation.
Cancel	Closes this dialog box without reading monitor data. Clicking the [Cancel] button displays Utility on [GOT-A900 series simulator].

■ Base tab

Sets base screen to read.

This tab is displayed by selecting [Select data] in [Object] of setting tab.
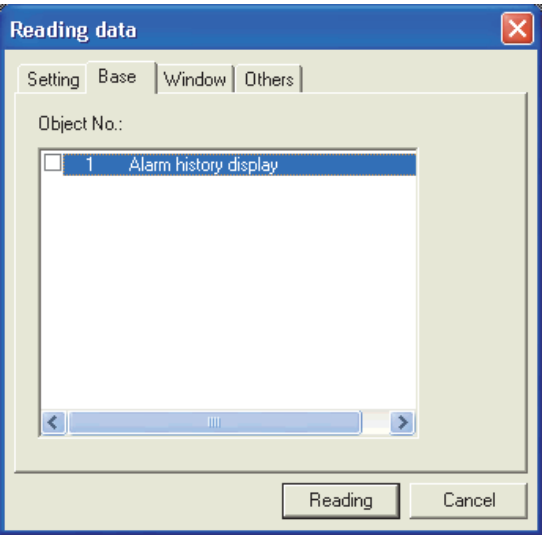
Item	Description
Object No.	The Screen No. and screen title of window screen are displayed. Check base screen to be read.
Reading	(☞ ■Setting tab in this section)
Cancel	

■ **Window tab**

Sets window screen to be read.

This tab is displayed by selecting [Select data] in [Object] of the setting tab.

| Setting | Base | Window | Others |
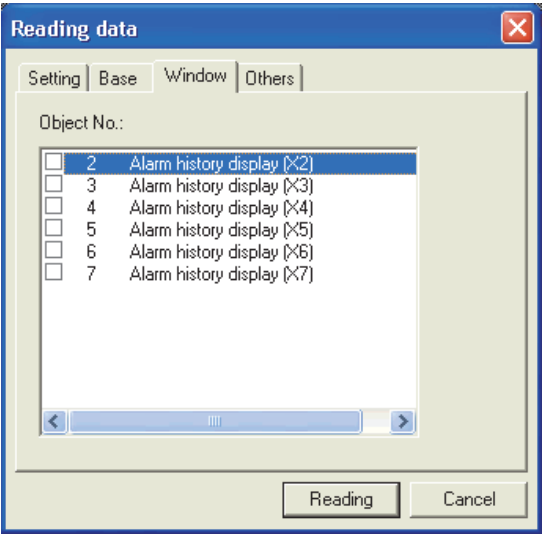
Item	Description
Object No.	The screen No. and screen title of window screen are displayed. Check window screen to be read.
Reading Cancel	(☞ ■Setting tab in this section)

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■ **Others tab**

Sets object other than base screen or window screen to be read.
This tab is displayed by selecting [Select data] in [Object] of the setting tab.

Item	Description
Others	Checks item to be read. The Common setting is always read. ([Common setting (Remove screen unit settings)] cannot be unchecked.) Parts : Checked when reading Parts data. Comment : Checked when reading Comment data. High quality font : Checked when reading High quality font data. Sound WAVE : Checked when reading Sound WAVE data.
Reading Cancel	(☞ ■Setting tab in this section)

5.7 Simulating Operation

On GT Simulator3, touching the touch keys is performed by pressing the mouse button.
As the input range of the touch key is narrower than that of the GOT, confirm the input with the buzzer sound after inputting.
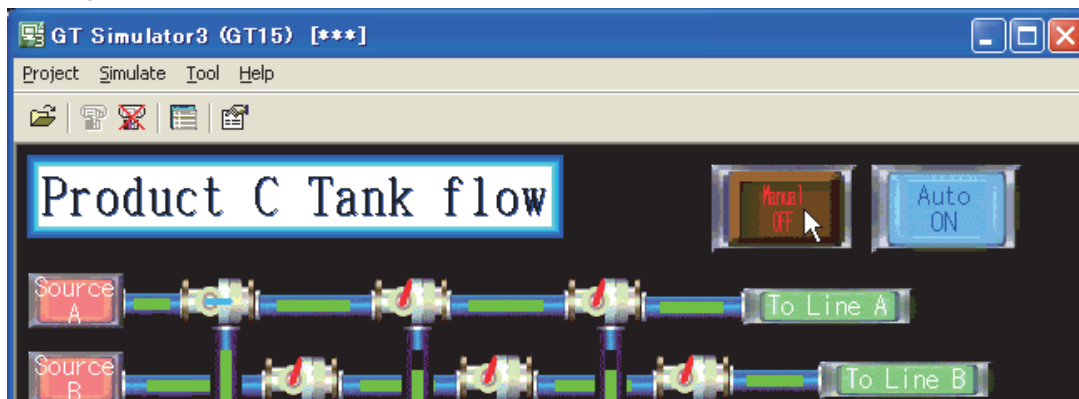
5.8 Exiting from GT Simulator3

This section describes how to exit from GT Simulator3.

1. When using the Device Monitor, exit it.
☞ 7.4 Device Monitor Operation Method

2. Perform either of the following operations.

- Click 🖹 (Close).
- Select [Project] → [Exit] from the menu.
- Select [Simulate] → [Exit] from the menu.

- Click the ❌ on the tool bar.
- Right-click the mouse and select [Exit]

3. GT Simulator3 is exited.

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MEMO
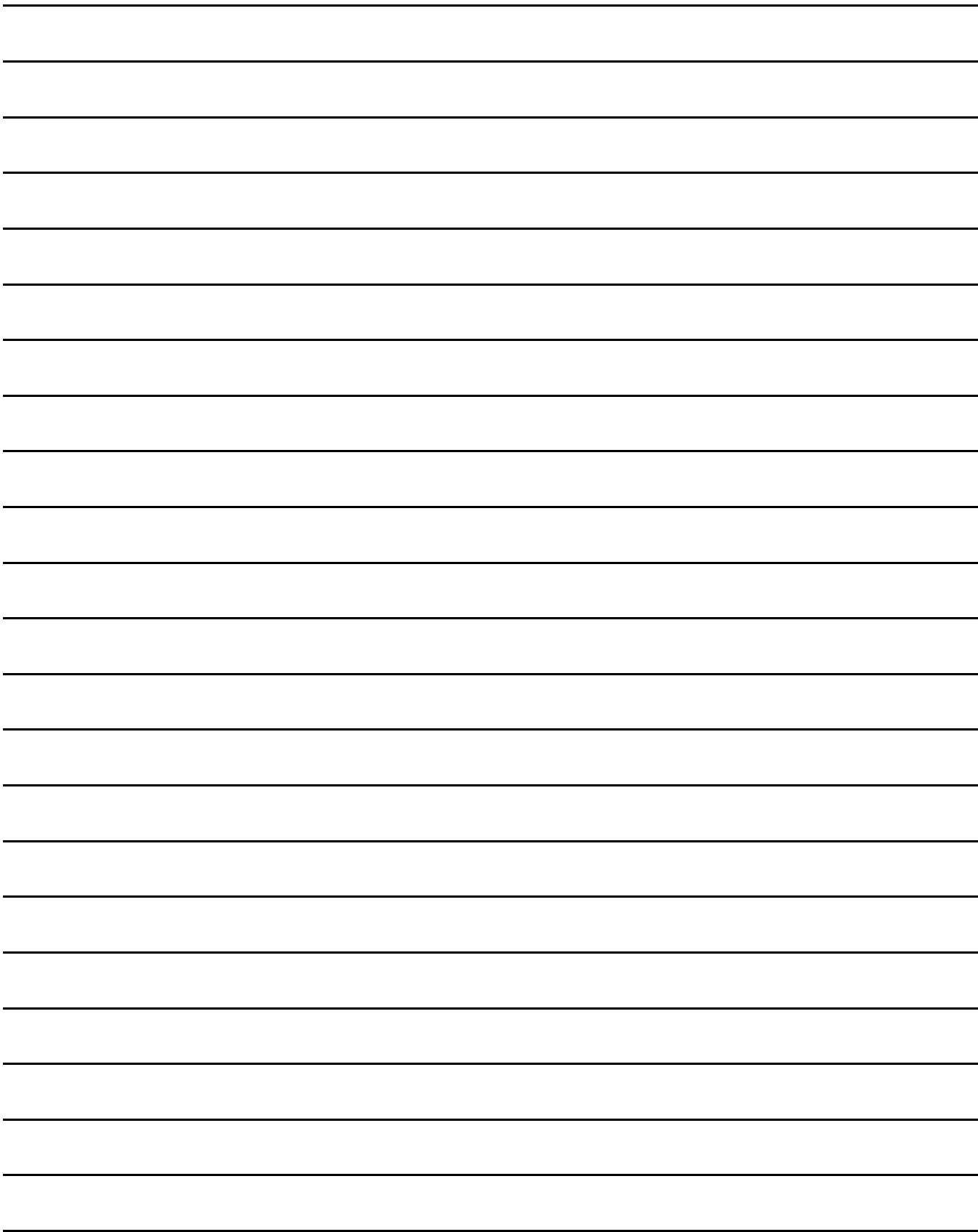
6. FUNCTIONS OF GT SIMULATOR3

6.1 Snap Shot

The screen image being simulated is saved into BMP or JPG format file.

1. Perform the following operation.
- Select [Project] → [Snap Shot] from the menu.

2. [Save As] dialog box is displayed.
Set the following items and click the [Save] button.
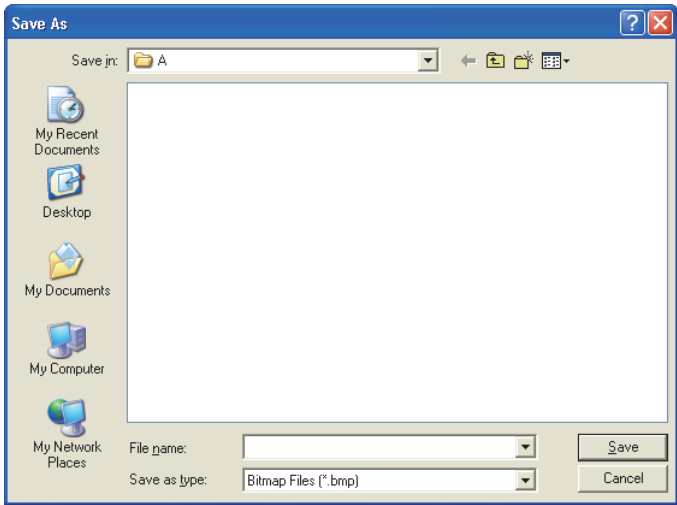
Item	Description
Save in	Selects the area where the file is saved.
File name	Selects the file name to be saved.
Save as type	• GOT1000 Series simulator Saves into BMP(*.bmp) or JPEG (*.jpg) format file. • GOT-A900 Series simulator Saves into BMP(*.bmp) format file.

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6.2　Print

The screen image being simulated is printed to a printer.

6.2.1　Printing

1. Perform the following operation.
- Select [Project] → [Print] from the menu.

2. Print dialog box of Windows® is displayed.
Click the [OK] button to start printing.
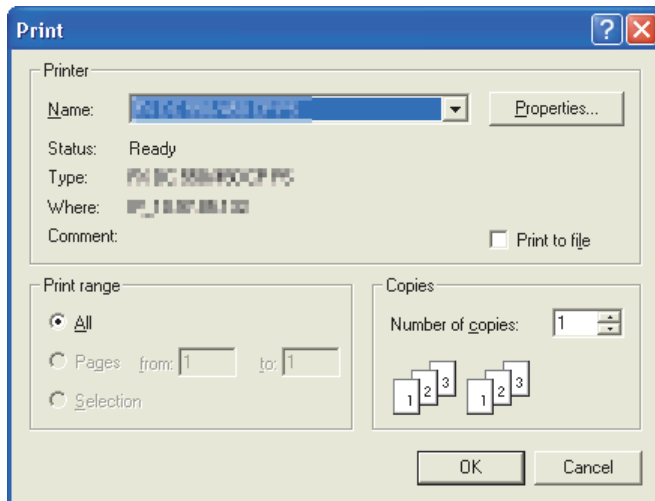
6.2.2 Performing print preview

1. Perform the following operation.
   - Select [Project] → [Print Preview] from the menu.

2. Print Preview is displayed.

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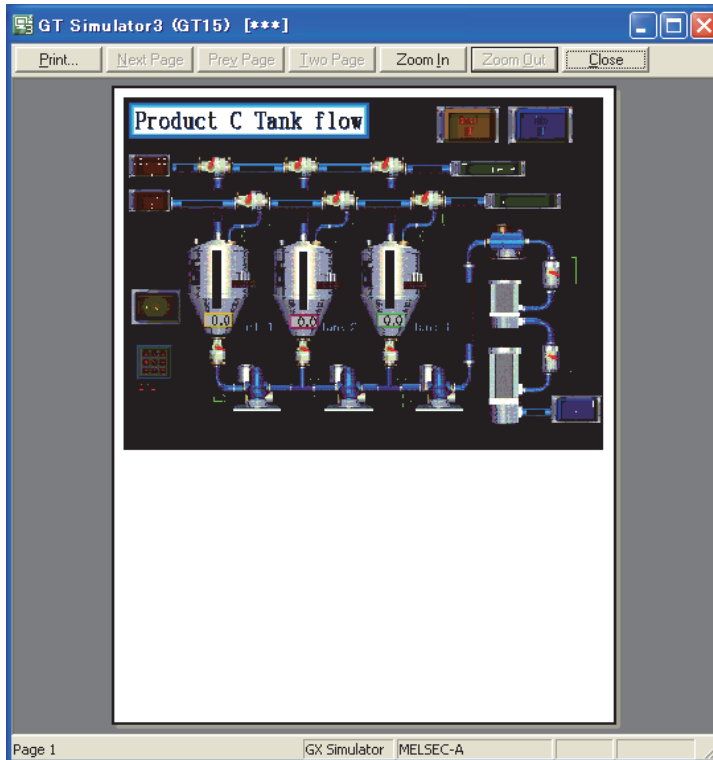
6.2.3 Performing page setup

1. Perform the following operation.
  - Select [Project] → [Page Setup] from the menu.

2. [Page Setup] dialog box is displayed.
Set the following items and click the [OK] button.
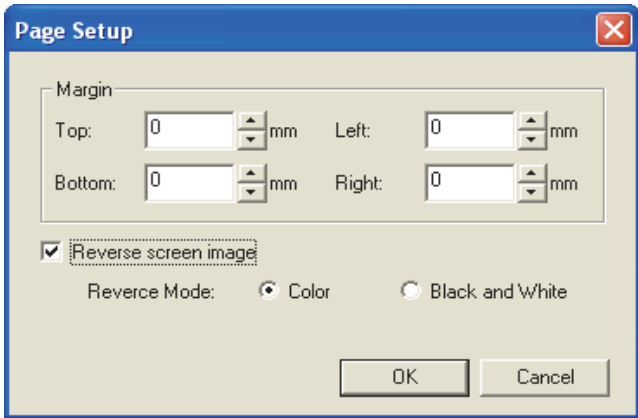
Item		Description
Margin		Set the margins on a page to be printed.
Reverse screen image		Select this item to reverse the colors of screen image when printing.
	Reverse Mode	Set the reverse mode for screen image. • Color : Reverse all the colors of screen image to be printed. • Black and White : Reverse the black and white colors of screen image to be printed.

6.2.4 Performing print setup

1. Perform the following operation.
  - Select [Project] → [Print Setup] from the menu.

2. Print dialog box of Windows® is displayed.
Set printer settings (selection of printer, paper size and Printing direction).
Click the [OK] button to start printing.
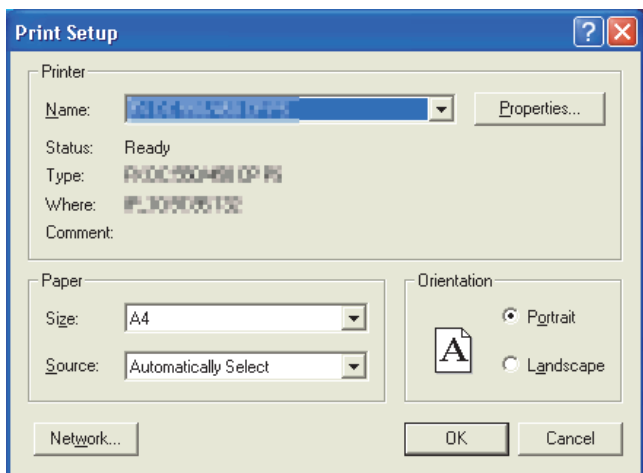
6.3 Property

Project title, Project ID and Data Size of project data being simulated are displayed.

1. Perform the following operation.
   • Select [Project] → [Property] from the menu.

2. [Properties] dialog box is displayed.

Properties

Project Title:	No title
Project ID:	686119596
Data Size:	234994 Byte

Close
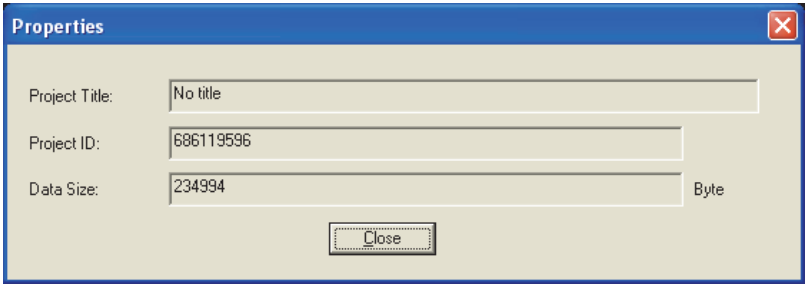
Item	Description
Project Title	Project title is displayed.
Project ID	Project ID is displayed.
Data Size	Data size of project data is displayed.

POINT

When property dialog box is displayed before starting simulation.
When property dialog box is displayed before starting simulation, project title, project ID and data size of project data simulated previously are displayed.
(If project data has not been loaded, project title, project ID and data size are not displayed.)

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6.4 System Alarm

System alarm is displayed.
If system alarm is not set to project data, it can be confirmed with this dialog box.

1. Perform the following operation.
   • Select [Tool] → [System alarm] from the menu.

2. [System Alarm] dialog box is displayed.
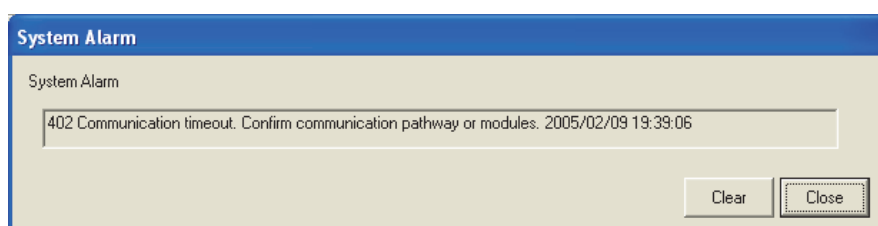
Item	Description
System alarm	Error contents are displayed.
Clear	Displayed error message is cleared. However, it is redisplayed when the error keeps occuring.

*1 Refer to the following manual for list of system alarm.

☞ User's Manual for the GOT used

POINT

About system alarm to be displayed.
   • Only the error detected by GOT is displayed on the system alarm dialog box.
     Set the system alarm to project data for confirming error of PLC CPU and network.
   • Error messages are displayed in English.
     To display them in other languages, set system alarm in the project data.
   • The GOT Error Reset signal (System signal 1-1.b13) does not clear the error messages.
     Use the [Clear] button to clear them.

6.5 Script Error

Script error information is displayed.

1. Perform the following operation.
   - Select [Tool] → [Script Error] menu.

2. Script error information dialog box is displayed.

Item	Description
Script No. *1	Script No. where error occurs is displayed.
Error No.	Error code of occurring error is displayed.
Error Message	Error contents are displayed.
Retry flag	Script is executed again.
Clear	Displayed error message is cleared. However, it is redisplayed when the error keeps occuring.

*1   Refer to the following manual for script function.

☞ GT Designer3 Version1 Screen Design Manual (Functions)

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6.6 Object Script Error

Object script error information is displayed.

1. Perform the following operation.
   - Select [Tool] → [Object script Error] from the menu.

2. [Object Script Error Information] dialog box is displayed.

Object Script Error Info.

| Script User ID | 1 | Error No. | 1020 |

Error Message

| Multiple process to write to a device exists in one script. |

[Retry flag] [Clear] [Close]

Item	Description
Script user ID *1	User ID of the object script where error occurs is displayed.
Error No.	Error code of occurring error is displayed.
Error Message	Error contents are displayed.
[Retry flag]	Object script is executed again.
[Clear]	Displayed error message is cleared. However, it is redisplayed when the error keeps occuring.

*1   Refer to the following manual for object script function.

☞ GT Designer3 Version1 Screen Design Manual (Functions)

6.7 Full Screen Mode Function (GT16**-X, GT15**-X only)

When selecting GT16**-X, GT15**-X (Resolution: 1024×768 dots), the GT Simulator3 screen can be displayed in full screen mode on a PC display.
When the resolution of the PC display is 1024×768 dots, hiding the parts including menu bar with this function is recommended.
When not using this function, the top/bottom/left/right side on the display are hidden.

■ Executing full screen display

1. Perform either of the following operations.
- Alt + F9
- Right-click the mouse and select [Full Screen Mode] from the menu.

2. The full screen mode dialog box is displayed.
Clicking the [OK] button displays the GT Simulator3 in full screen mode.
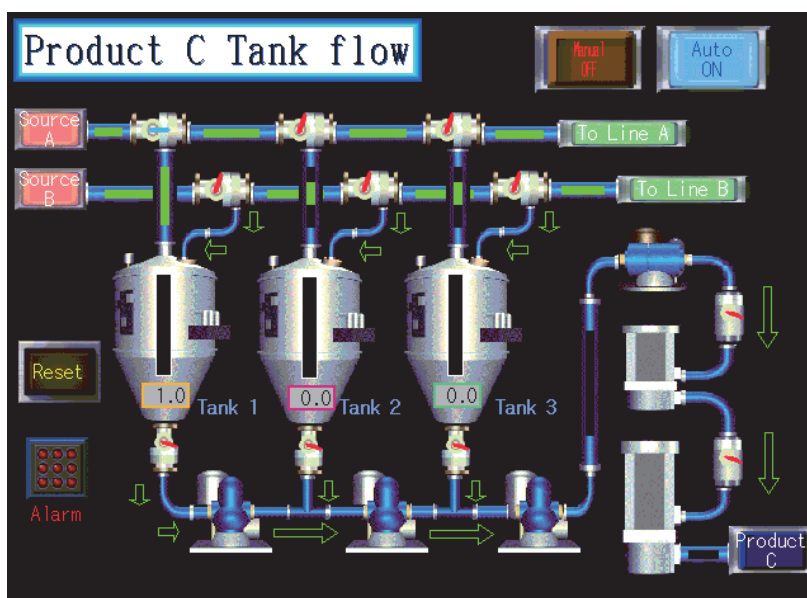
■ Canceling full screen mode

1. Perform either of the following operations.
- Alt + F9
- Right-click the mouse and select [Full Screen Mode] from the menu.

2. Full screen mode cancel dialog box is displayed.
Clicking the [OK] button cancels the full screen mode.

POINT

- "In full screen mode, [Open], [Start], [Stop] and [Option] can be operated.
When operating other than the above, cancel the full screen mode. (Refer to procedure 2. for how to cancel full screen mode.)"
- When full screen mode has been set before executing simulation, the project data of other than GT16**-X, GT15**-X (Resolution: 1024×768 dots) cannot be opened.
- When using full screen mode under the environment that the resolution of the PC display is greater than 1024×768 dots, GT Simulator3 display position is fixed on the upper-left. (The display position cannot be changed.)

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MEMO
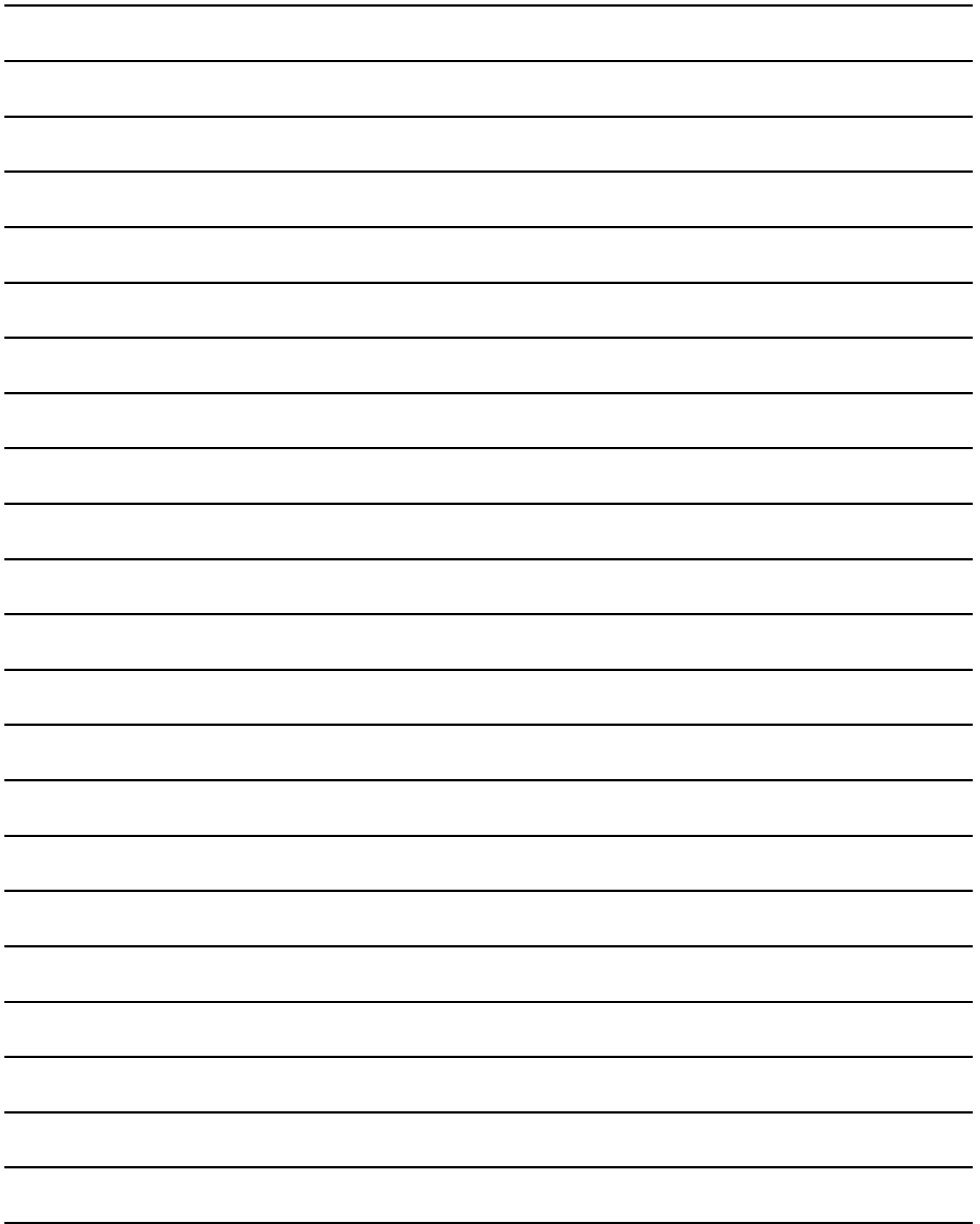
7. DEVICE MONITOR

7.1 Overview

The device values of project data simulated on GT Simulator3 can be monitored or tested by Device Monitor function.
The dubugging can be performed efficiently since the display can be checked on GT Simulator3 by this function.

7.2 Precautions

POINT

Instructions for use of GT Simulator3

Refer to the following for the instructions for use of GT Simulator3.

☞ 3.3 Precautions

(1) Starting multiple device monitors
Multiple device monitors can not be start up at the same time.

(2) When referring the device value GT Simulator3 does not show on the screen
The Device Monitor shows the device list by the screen.
For the device value GT Simulator3 does not show on the screen, set the device with [Free Registration screen] of GT Simulator3 and refer the device value.

☞ 7.5.3 Registering/Deleting device (Free Registration screen)

(3) When using screen call function
The device set on the called function will not be shown when screen call function is used.
For the device value on the called function, set the device on [Free Registration screen] of GT Simulator3 and refer the device value.

☞ 7.5.3 Registering/Deleting device (Free Registration screen)

(4) Switching station No. at the direct CPU connection
The monitored device cannot be switched by using switching station No. at the direct CPU connection.
For the monitored device, set the device with [Free Registration screen] and refer the device value.

☞ 7.5.3 Registering/Deleting device (Free Registration screen)

(5) Connection to GX Simulator
In regard to the devices out of the GX Simulator's support, the values are not shown.

**(6) When simulating the project data of which PC type is third party PLC
(Connection to GX Simulator)**
In regard to the devices out of the simulation available range, the values are not shown.
Refer to the following for the device ranges that can be simulated.

☞ 3.4 Device Ranges that Can Be Simulated

(7) When using object scripts
The temporary device area (TMP) for object scripts cannot be confirmed with the Device Monitor (GT Simulator3).

7.3 Screen Configuration of Device Monitor

7.3.1 Screen configuration and various Tools

This section describes the configuration and various tools of device monitor.

Title bar

Tool bar

☞ 7.3.3 Tool Bar

Menu Bar

☞ 7.3.2 Menu Bar

Device Monitor screen

☞ 7.3.4 Device Monitor screen

Status Bar

☞ 7.3.5 Status Bar

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7.3.2 Menu Bar

The commands assigned to the menu bar are described below.

File

File menu includes the function to exit the Device Monitor.

☞ • 7.4 Device Monitor Operation Method

Edit

Edit menu includes the functions to register or delete devices in [Free Registration screen].

(This menu becomes available when [Free Registration screen] is selected on the Device Monitor.)

☞ • 7.3.4 Device Monitor screen
   • 7.4 Device Monitor Operation Method

View
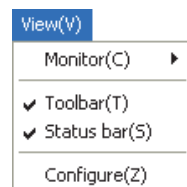
View menu includes the functions such as starting/stopping monitoring and setting the Device Monitor.

☞ • 7.3.3 Tool Bar
   • 7.3.5 Status Bar
   • 7.4 Device Monitor Operation Method

Window
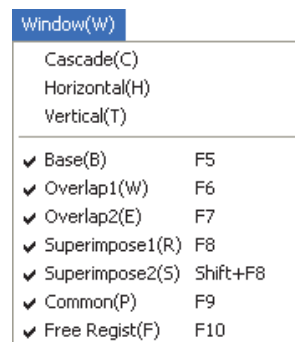
Window menu includes the functions such as aligning the Device Monitor screens and selecting display screens.
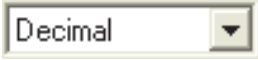
☞ • 7.3.4 Device Monitor screen
   • 7.4 Device Monitor Operation Method

7.3.3   Tool Bar

This section describes the tool bar.

■ Before monitoring

	Name	Description
	Start	Executes device monitoring.
Decimal	Change the display format of the device value.	Choose the device value display format in the list box. (☞ 7.3.4 (1) Display of [Value])
−	With/Without a sign	Make selection when handling the device value as signed binary value. The [Changes of display of device value] can only be selected when [Decimal] is chosen. (☞ 7.3.4 (1) Display of [Value])

■ While monitoring

	Name	Description
	Stop	Stops device monitoring.
Decimal	Change the display format of the device value.	Choose the device value display format in the list box. (☞ 7.3.4 (1) Display of [Value])
−	With/Without a sign	Make selection when handling the device value as signed binary value. The [Changes of display of device value] can only be selected when [Decimal] is chosen. (☞ 7.3.4 (1) Display of [Value])

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7.3.4　Device Monitor screen

This section describes the Device Monitor screen.

■ Devise Monitor types

The Device Monitor is available in the following four types which show the different contents and items in the screen.

(Base Screen)


(Window Screen)

(Common screen)

(Free Registration screen)

Screen	Description
Base Screen	Confirms/Tests the device used on the Base Screen. Device for each Base Screen is displayed.
Window Screen	Confirms/Tests the device used on the Overlap window (1, 2, 3, 4, 5) or the Superimpose window (1, 2). Device for each Window Screen is displayed.
Common screen	Confirms/Tests the contents set with the common setting of GT Designer3.
Free Registration screen	Registers any device and confirms/tests the device value. Since all devices (including GOT's internal devices) can be registered, devices not set in the data can be registered and confirmed/tested. Refer to the following for device registration. ☞ 7.5.3 Registering/Deleting device (Free Registration screen)

POINT

Synchronization for the Monitor Mode of Device Monitor and GT Simulator3

The Monitor Mode of Device Monitor and GT Simulator3 can be disabled from synchronizing.

For details, refer to the following.

☞ 7.6.1 ■Monitor Mode tab

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■ Items displayed on the Device Monitor

The items displayed on the Device Monitor will be described below.
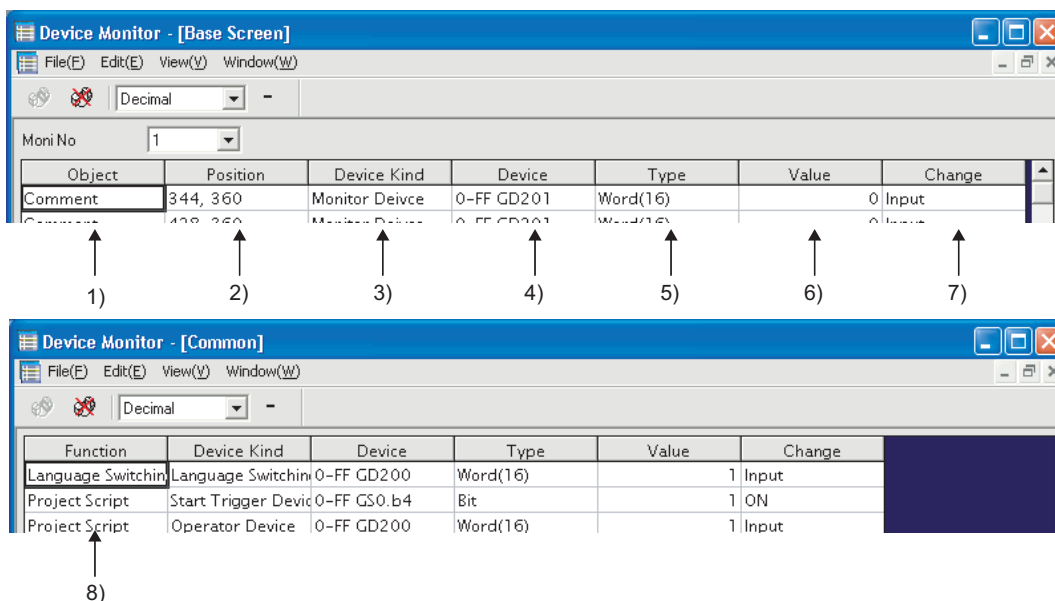
Number	Item	Description
1)	Object	Shows the preset object names.
2)	Position	Displays the displayed object positions (coordinates).
3)	Device Kind	Shows the device types.
4)	Device	Shows the devices set for the objects. The devices are represented as on GT Designer3.
5)	Type	Shows the used device types. Bit : When bit device is used Word (16) : When word device (16bit) is used Word (32) : When word device (32bit) is used
6)	Value	Shows the device values. (☞ *2* (1) Display of [Value] in this section)
7)	Change	Changes the device values. (☞ 7.5.2 Testing device value)
8)	Function	Shows the Common screen name with GT Designer3.

(1) Display of [Value]

Display of [Value] is shown in the following table depending on the selection of [Changes of display of deivce value] and [With/Without a sign] on the tool bar.

Setting of [Changes of display of deivce value] and [With/Without a sign]		Display of [Value]		
		When [Type] is [Bit]	When [Type] is [Word (16)]	When [Type] is [Word (32)]
Binary		0, 1(1 digit)	0000 ⋯ 0000 to 1111 ⋯ 1111(16 digits)	0000 ⋯ 0000 to 1111 ⋯ 1111(32 digits)
Octal			0 to 177777	0 to 37777777777
Decimal	Signed		-32768 to 32767	-2147483648 to 2147483647
	Unsigned		0 to 65535	0 to 4294967295
Hexadecimal			0 to FFFF	0 to FFFFFFFF

7.3.5 Status Bar

The status bar will be described below.
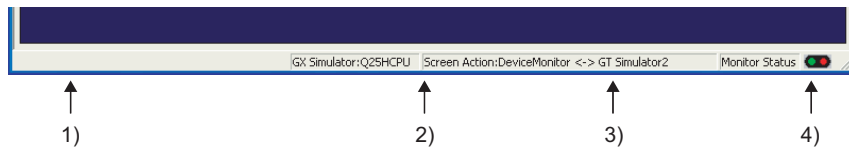
Number	Description
1)	Shows the descriptions of button and menu at the mouse cursor.
2)	Shows the PLC CPU type currently connected. With the direct CPU connection : "CPU: <Connected PLC CPU type>" With GX Simulator : "GX Simulator: <Connected PLC CPU type>"
3)	Shows the setting contents of Monitor Mode. (☞ 7.6 Setting Display)
4)	Indicates the monitor status with the lamps. Lamps flickering : Monitor is in progress. Both lamps are lit green : Monitor is at a stop.

7.4 Device Monitor Operation Method

The device monitor operation method will be shown below.

```
        ┌─────────────────────────────┐
        │           Start             │
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │   Start the Device Monitor. │        ☞  7.4.1 Starting Device Monitor
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────────────┐
        │ Perform debugging on the Device      │  ☞  7.5 Device Monitor Functions
        │ Monitor.                             │
        └─────────────────────────────────────┘
   ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
   │ When interrupting the                │
     monitor only         │
   │          │                           │
              ▼
   │ ┌─────────────────────────────┐      │
     │ Stop and restart the monitor.│       ☞  7.4.2 Stopping and restarting the monitor
   │ └─────────────────────────────┘      │
   └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │ Exit from the Device Monitor.│       ☞  7.4.3 Exit Device Monitor
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │            Exit             │
        └─────────────────────────────┘
```

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7.4.1 Starting Device Monitor

1. The Simulation in GT Simulator3 do either of the following operations.

- Click ▦ (Start of Device Monitor) of GT Simulator3.
- Select [Tool] → [Start of Device Monitor] from the menu of GT Simulator3.

2. The Device Monitor starts, and then executes monitoring.

Object	Position	Device Kind	Device	Type	Value	Change
Comment	344, 360	Monitor Deivce	0–FF GD201	Word(16)	0000	Input
Comment	428, 360	Monitor Deivce	0–FF GD201	Word(16)	0000	Input
Comment	514, 360	Monitor Deivce	0–FF GD201	Word(16)	0000	Input
Comment	372, 164	Monitor Deivce	0–FF GD201	Word(16)	0000	Input
Lamp	64, 320	Monitor Deivce	0–FF X0031	Bit	0	
Touch Switch	224, 368	Write Device(Bit)	0–FF X0031	Bit	0	OFF
Touch Switch	144, 320	Write Device(Bit)	0–FF X0031	Bit	0	OFF
Touch Switch	344, 352	Display Switching [	0–FF GB1000	Bit	0	OFF
Touch Switch	344, 352	Write Device(Bit)	0–FF GB1000	Bit	0	OFF
Touch Switch	428, 352	Display Switching [	0–FF GB1001	Bit	0	OFF
Touch Switch	428, 352	Write Device(Bit)	0–FF GB1001	Bit	0	OFF
Touch Switch	512, 352	Display Switching [	0–FF GB1002	Bit	0	OFF
Touch Switch	512, 352	Write Device(Bit)	0–FF GB1002	Bit	0	OFF
Touch Switch	384, 432	Write Device(Word	0–FF GD200	Word(16)	0001	Input
Touch Switch	440, 432	Write Device(Word	0–FF GD200	Word(16)	0001	Input
Touch Switch	496, 432	Write Device(Word	0–FF GD200	Word(16)	0001	Input
Touch Switch	623, 0	Write Device(Word	0–FF D100	Word(16)	0046	Input
Touch Switch	623, 0	Write Device(Word	0–FF D101	Word(16)	0014	Input
Touch Switch	623, 0	Write Device(Word	0–FF D102	Word(16)	0032	Input
Touch Switch	623, 0	Write Device(Word	0–FF D103	Word(16)	000F	Input
Touch Switch	623, 0	Write Device(Word	0–FF D104	Word(16)	0050	Input
Touch Switch	32, 156	Write Device(Bit)	0–FF X0031	Bit	0	OFF
Touch Switch	372, 224	Display Switching [	0–FF GB1003	Bit	0	OFF

GX Simulator:Q25HCPU   Screen Action:DeviceMonitor <-> GT Simulator2   Monitor Status ●●

POINT

Starting the device monitor
When connection is established between GT Simulator3 and a controller simulator or Mitsubishi equipment, you can start the device monitor only while GT Simulator3 is performing a simulation.
If connection is established between GT Simulator3 and non-Mitsubishi equipment by using the direct CPU connection, you cannot start the device monitor.

7.4.2 Stopping and restarting the monitor

1. Choose either of the following operations to stop the monitor.

- Click 🚫 (Stop) of the Device Monitor.
- Select [View] → [Monitor] → [Stop] from the menu of the Device Monitor.

2. Choose either of the following operations to restart the monitor after stopping.

- Click 🔧 (Start) of the Device Monitor.
- Select [View] → [Monitor] → [Start] from the menu of the Device Monitor.

POINT

About Stop monitor /Exit devcie monitor
If monitor is stopped, the Device Monitor is not exited.
Refer to the following manual to exit device monitor
☞ 7.4.3 Exit Device Monitor

7.4.3 Exit Device Monitor

1. Exit Device Monitor with any of the following operations.
- Select [File] → [Exit Device Monitor] from the menu of the Device Monitor.
- Click ❌ on the title bar of the Device Monitor.
- Click ≣ (Start/Exit of Device Monitor) of GT Simulator3.
- Select [Tool] → [Exit Device Monitor] from the menu of GT Simulator3.

POINT

Exiting and Message of GT Simulator3/Device Monitor
Exit from GT Simulator after exiting from the Device Monitor.
If exiting GT Simulator while monitoring with the Device Monitor, the following message may be displayed under other screens.

If having exited GT Simulator while monitoring with the Device Monitor, operate after carrying on a process such as moving the other screens.

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7.5 Device Monitor Functions

This section describes the device monitoring functions.

7.5.1 Sorting the data

This function allows the data displayed in the Device Monitor to be arranged in ascending or descending order of character code.
By default, the column data on the left of the corresponding screen are displayed in ascending or descending order of character code.

1. Clicking the title of the corresponding column rearranges the column data in ascending or descending order of character codes.

Click this part. ——→

Object	Positi
Comment	344, 360
Comment	428, 360
Comment	514, 360
Comment	372, 164
Lamp	64, 320
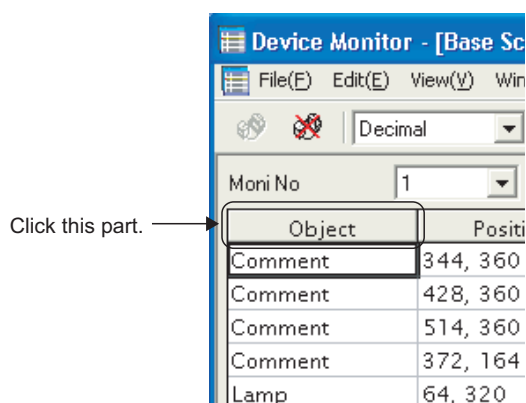
POINT

(1) **The sorting order of [Object]**
[Object] can be set the sorting order by users.
For details, refer to the following.

☞ 7.6 Setting Display

(2) **The sorting order of [Change]**
[Change] cannot be rearranged the sorting order.
Rearrange with the other column data.

7.5.2 Testing device value

The device value can be tested with this function.
You can check how the indication of the tested device value changes on GT Simulator3.

■ Values that can be tested

The range of values that can be tested is the same as the display range.
For details, refer to the following.

☞ Section 7.3.4 (1) Display of [Value]

■ Testing method

How to test a device value is given below.

(1) When testing a bit device with the mouse

1. By clicking [ON] or [OFF] with the mouse, the device value is reflected to [Value] and [Change].

Value	Change
161	Input
0	OFF
0	OFF

Click this part.

(2) When testing a bit device with the keyboard.

1. By choosing [Value] and entering 0 or 1 with the personal computer keyboard, the device value is reflected to [Value] and [Change].

Value	Change
161	Input
0	OFF
0	OFF

(3) When testing a word device with the mouse

1. Device value input window

Value	Change
161	Input
0	OFF
0	OFF

Click this part.

2. By setting the device value with the [0] to [F] [BK] [CL] button and pressing the [ENT] button, the device value is reflected to [Value] and [Change]. (You can also input the device value directly.)

Input Device Value-Deci...

					161
7	8	9	BK	CL	+/-
4	5	6	D	E	F
1	2	3	A	B	C
		0			
ENT			Cancel		
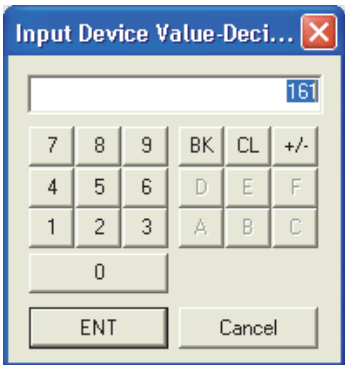
(4) When editing a word device with the keyboard.

1. By choosing and directly editing [Value], the device value is reflected to [Value] and [Change].

Value	Change
161	Input
0	OFF
0	OFF

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7.5.3　Registering/Deleting device (Free Registration screen)

You can register any device on the Free Registration screen and test the device.
By registering a device not set in the project data and testing the value, you can make an operation check after the change.

■ How to register a device

1. Choose either of the following operations.
 • Select [Edit] → [Regist Device] from the menu of the Device Monitor.
 • Click the [Regist] button of [Free Registration screen]

2. The Regist Device dialog box appears.
 By setting the following items and clicking the [OK] button, the device is registered.
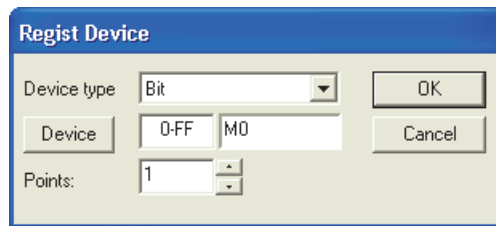
Item	Description
Device type	Selects the Device type.
Device	Sets the device. For setting the device, refer to the following. ☞ GT Designer3 Version1 Screen Design Manual (Fundamentals)
Points	Sets the point of the device to be registered from the device set with the [Device] button consecutively.

POINT

(1) Display order of the devices
 The devices are displayed from top to bottom in registration order.
(2) Operation for discarding the registered contents
 If the [PLC Type] of the simulated project data is changed, the registered contents will be discarded.

■ How to delete the devices

1. Display the device to be deleted on [Free Registration screen].

2. By choosing either of the following operations, the device is deleted.
 • Select [Edit] → [Delete Device] from the menu of the Device Monitor.
 • Click the [Delete] button of [Free Registration screen]

■ How to delete all devices

1. Display the [Free Registration screen].

2. By choosing either of the following operations, all devices are deleted.
 • Select [Edit] → [Delete All Device] from the menu of the Device Monitor.
 • Click the [Delete All] button of [Free Registration screen].

7.5.4 Displaying screens with cascade/tile

You can display all screens with cascade/tile.

1. Select [Window] → [Cascade] / [Horizontal] / [Vertical] from the menu of the Device Monitor.

2. The screens are displayed as follows.
 • When selecting the [Cascade] from the menu
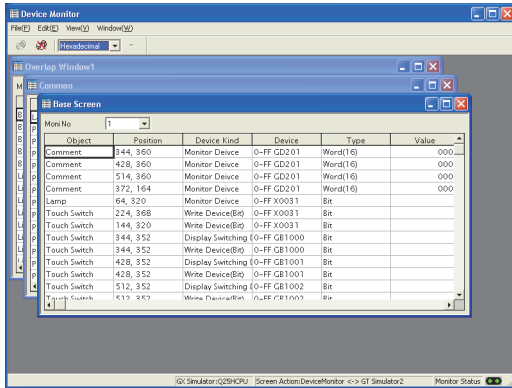
 • When selecting the [Horizontal] from the menu
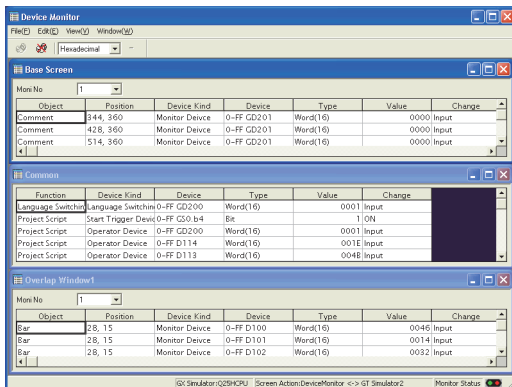
 • When selecting the [Vertical] from the menu

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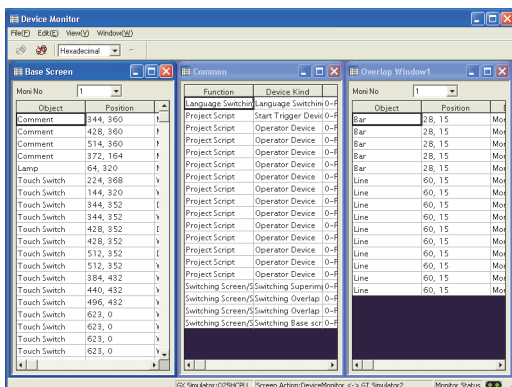
7.5.5   Changing Device Monitor screen

■ When changing the Device Monitor screen

1. Select the screen to be displayed on the Device Monitor with the [Window] from the menu.
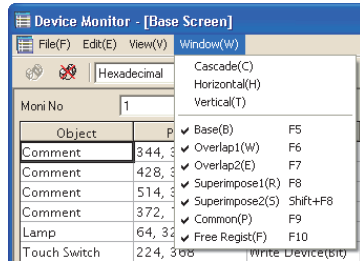
■ When changing the Screen No. of the screen to be displayed

1. If displaying the Base Screen, the selection for the Screen No. of the screen to be displayed is available with [Moni No.].
If displaying the Window Screen, the selection for the Screen No. of the screen to be displayed and Non-Display setting for the screen is available with [Moni No.] .
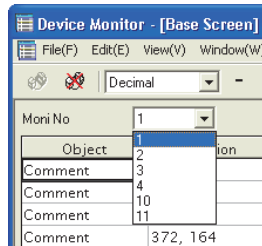
7.6 Setting Display

The display of the Device Monitor can be customized.

1. Perform the following operation.
- Select [View] → [Configure] from the menu of the Device Monitor.

2. The Setting dialog box is displayed.
Set each item and click the [OK] button.
For details of the Setting dialog box, refer to the following.
☞ 7.6.1 Setting items

7.6.1 Setting items

■ Object Sort Setting tab

You can set the display order of the [Object] column data shown on base or window screen.
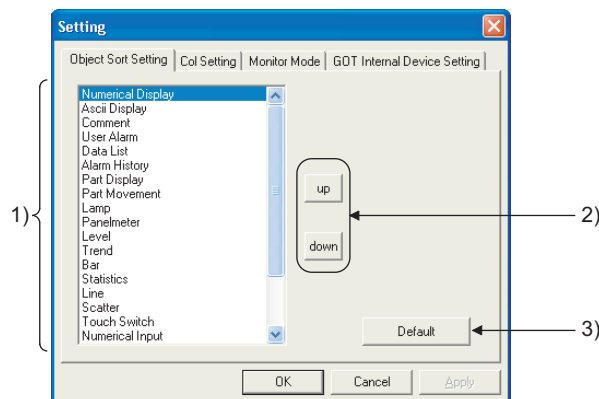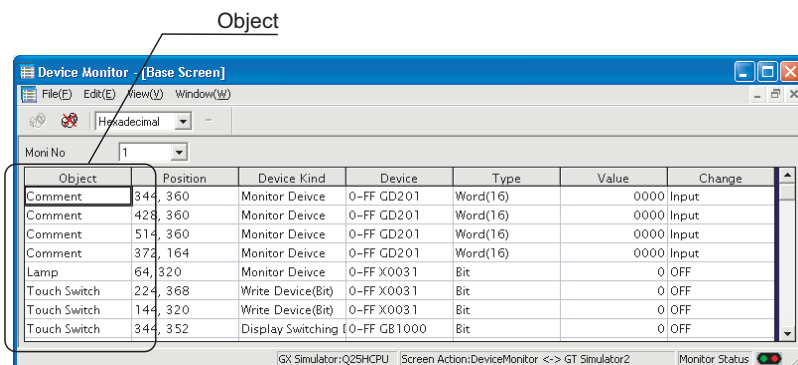
No.	Item	Description
1)	Object item	Choose the object item you want to move.
2)	up, down	Used to move the object selected in the object item.
3)	Default	Used to select the standard (default) setting of the object item display order.

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■ Col Setting tab

You can set the displayed column data order on the Base, Window, Common or Free Registration screen.
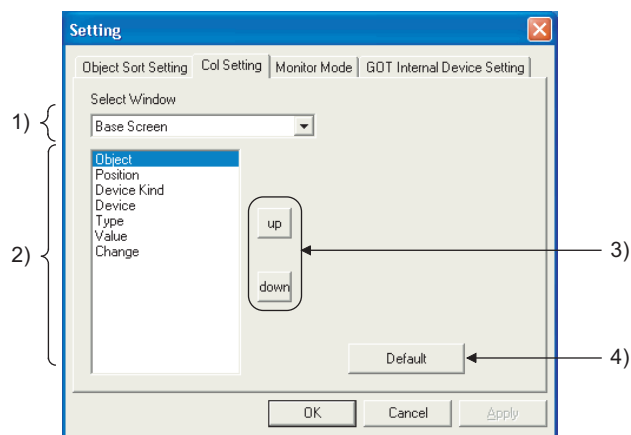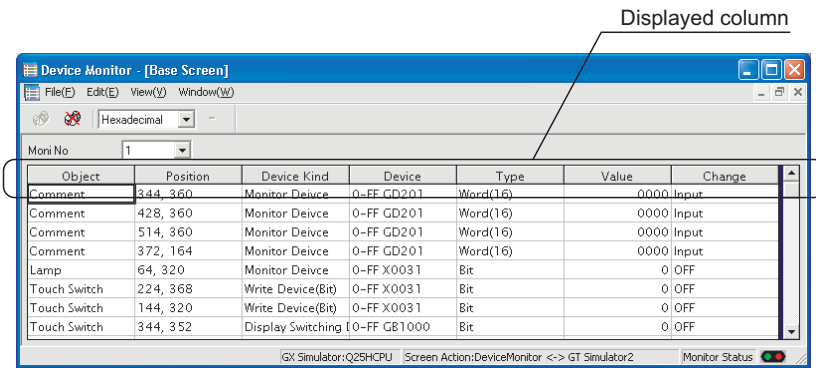
Displayed column

No.	Item	Description
1)	Select Window	Choose the Device Monitor screen where you want to change the displayed column data order.
2)	Displayed column item	Choose the displayed column item you want to move.
3)	up, down	Used to move the object selected in the displayed column item.
4)	Default	Used to select the standard (default) setting of the displayed column item display order.

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■ **Monitor Mode tab**

You can set the Monitor Mode pattern for synchronizing/not synchronizing the Device Monitor and GT Simulator3 screen (Base Screen, Window Screen).

Item	Description

Monitor Mode Setting	Choose the screen switching pattern.
	• Device Monitor <-> GT Simulator3
	  Changing either of the Device Monitor screen and GT Simulator3 screen also changes the other.
	• Device Monitor -> GT Simulator3
	  Changing the Device Monitor screen changes the GT Simulator3 screen.
	  If you change the GT Simulator3 screen, the Device Monitor does not change.
	• GT Simulator3 -> Device Monitor
	  Changing the GT Simulator3 screen changes the Device Monitor screen.
	  If you change the Device Monitor screen, the GT Simulator3 screen does not change.
	• Device Monitor -X- GT Simulator3
	  Changing either of the Device Monitor screen and GT Simulator3 screen does not change the other.

POINT

Testing of device value

If you test device value without regarding of this setting, any changes are reflected on the Device Monitor and GT Simulator3.

When you do not want to reflect device value changes, stop the monitor and then test the device value.

☞ 7.4 Device Monitor Operation Method

■ GOT internal Device Setting tab

When exiting from GT Simulator3, save the internal device (GD, GB, GS) states and set Display/Non-Display of the states at the previous exit when monitoring next time.
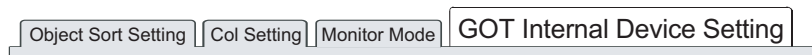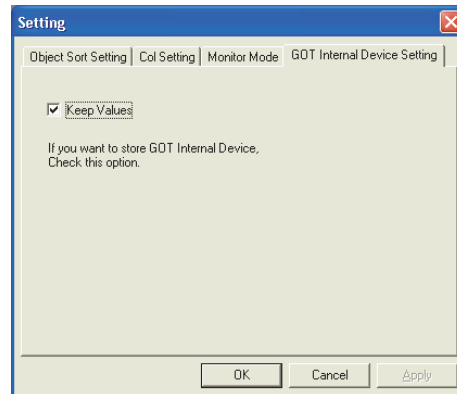
Item	Description
Keep Values	Check this check box to save the internal device values at monitor stop or end, and display the saved internal device values at the time of next monitoring.

8. TROUBLESHOOTING

8.1 Troubleshooting for File Save Problems

Problem	Definition and Cause	Corrective action
No files are output when the hard copy command is executed from the monitor screen of the GT Simulator3.	The file cannot be saved due to problems with the output destination disk.	• Confirm that the folder that is designated as a virtual drive does exist. • Check the access right for the folder that is designated as a virtual drive. • Confirm that there is enough free space in the folder that is designated as a virtual drive.
	The file cannot be saved, since file number external control device value is set to a value outside of the range 1 to 9999.	• Confirm that the file number external control device value is set to a value in the range 1 to 9999.

8.2 Error Message (GOT1000 series simulator)

The following table indicates the error messages occurred in GOT1000 series simulator themselves, the Descriptions and resolutions.

■ Error messages displayed when GT Simulator3 is used.

Error message	Definition and cause	Corrective action
Adobe Reader is not installed correctly. Please install Adobe Reader.	• Adobe® Reader® is not installed. • Adobe® Reader® is not installed correctly.	After uninstalling Adobe® Reader®, reinstall it.
Easysocket is not installed.	Perhaps GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
'GT Simulator3' is not correctly installed.	Can not find the Windows® registry for GT Simulator3.	After uninstalling GT Simulator3, reinstall it.
PLC type of 'GT Simulator3' setting and 'GX Developer' setting is different. Please confirm the content of 'GX Developer' setting or change the PLC type of option setting.	These two CPU type settings are different.	Change the CPU type in the GX Developer project.
'GT Simulator3' cannot work, since language version for 'GT Simulator3' is different from one for 'GX Simulator'.	GT Simulator3 doesn't work, since the language version of GT Simulator3 is different from that of GX Simulator.	Install the same language version GX Simulator and GT Simulator3 .
Installation path of 'GT Simulator3' cannot be acquired.	Perhaps GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
This operating environment is unapplicable for 'GT Simulator3'.	Access could not be made to the file necessary to operate GT Simulator3.	• Check whether the user logs in to Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 as the user with the administrator authority (for the computer management). • Check whether the fast user switching function or the remote desktop function of Windows® XP, Windows Vista®, Windows® 7, Windows® 8, or Windows® 8.1 is in use.
	• GT Simulator3 was not closed propety. • Illegal process is running.	Resart GT Simulator3 after reboot the computer.
Please do logoff/the termination of Windows after ending 'GT Simulator3'.	Close GT Simulator3 before log out or shut down the Windows®.	Close GT Simulator3 before log out or shut down the Windows®.

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Error message	Definition and cause	Corrective action
Project Information of 'GX Developer' was not be acquired. GPPW.GPS or GPPW.GPJ is not found.	Set a wrong GX Developer project.	In Option setting, set the project of GX Developer again.
Project path of 'GX Developer' cannot acquired. <cause> • 'GT Simulator3' is not correctly installed. • Unsupport PLC type is selected. • Registry is destroyed.	• Registry information on the project path of GX Developer was corrupted. • Unsupport CPU type was specified.	In Option dialog box, set the project of GX Developer again.
	GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
An illegal project of 'GX Developer' is selected.	The project specified in [GX Developer Project] of Option dialog box does not exist.	Check whether the specified GX Developer project exists.
'GX Simulator' is not installed.	• GX Simulator is not installed. • GX Simulator is not installed correctly.	Install GX Simulator.
An illegal project of 'GX Developer' is selected. (SFC program) Project cannot be forwarded to 'GX Simulator'.	Specified an SFC type GX Developer project.	In Option setting, set the project of GX Developer again.
Failed in the start of 'GX Simulator'. <ES: ****> ************ error	GX Simulator may be not installed correctly.	• After uninstalling GT Simulator, reinstall it. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
Insufficient memory to starting 'GX Simulator'.	Not enough Dynamic memory to start up GT Simulator3.	Secure memory space. • Close unnecessary applications. • Check free hard disk space.
Failed in the initialization of 'GX Simulator'. <ES: ****> ************	GX Simulator may be not installed correctly.	After uninstalling GT Simulator, reinstall it.
	• GT Simulator3, GX Simulator or GX Developer was not closed properly. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
Failed in the start of Shared memory server. <ES: ****> ************ error	• GT Simulator3, GX Simulator or GX Developer was not closed properly. • Illegal process is running.	• After restarting the personal computer, restart GT Simulator3. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
This function can't be used now.	Selected a unavailable function in GT Simulator3.	Press [OK].
The version of installed Easysocket is illegal.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
The version of installed 'GX Simulator' is illegal.	Installed a old version of GX Simulator.	Install GX Simulator of Version 5E or later.

(Continued to next page)

Error message	Definition and cause	Corrective action
The simulation cannot be ended. Please retry after shutting Dialogue on the simulation screen.	Since the message such as [This function cannot be used now] was displayed on the screen, GT Simulator3 could not be exit correctly.	After selecting [OK] in the dialog box to erase the on-screen message, exit from GT Simulator3 again.
	There was the other internal cause than the above that did not allow to exit from the software.	After selecting [OK] in the dialog box, wait for some time and exit from GT Simulator3 again.
There is no response from 'GX Simulator' for terminarion request. 'GX Simulator' is canceled. Please end 'GT Simulator3' at once and do the PC in Shutdown.	• The GT Simulator3, GX Simulator or GX Developer was closed illegally last time. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3.
Fail in the Snap Shot.	• The GT Simulator3 was closed illegally last time. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3.
Vertical project data is not supported.	The project data for vertical display type has been read.	Simulate after changing [GOT type] of the project data to GT16/GT15.
Communication error occurred. Retry : Communication begins again. Cancel : Communication is interrupted. Please reexecute 'GT Simulator3(GT15)', if communicate again. <ES: ****>	• Cable was disconnected. • Cable was broken.	After checking for the left causes, select the button in the displayed dialog box. [Retry] Restarts communication. [Cancel] After Cancel is selected, all communications will not be made. When performing simulation, restart GT Simulator3.
	Transmission speed (Baud rate) is incorrect.	
	The PLC CPU type is different from that of the project setting.	
Failed in the start of Device Monitor.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
Failed in the end of Device Monitor.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
Failed to build operating environment. Please retry after checking the following. • Capacity of free disk. • File access. • Effect of antivirus software's real-time surveillance.	Not enough free disk space.	Increase the free space of hard disk to more than 200M bytes.
	Can not access the necessary file for GT Simulator3's operation.	Check whether GT Simulator3 has been operated already.
	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
	Real-time protection in antivirus software gets in the way of accessing the file.	Stop real-time protection in antivirus software, or set the following multiple paths from exception settings in anti-virus software and put aside real-time protection in anti-virus software. • For Windows® XP C:\Documents and Settings\(User name)\Local Settings\Application Data\MITSUBISHI\GSS3 • For Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 C:\Users\(User name)\AppData\Local\MITSUBISHI\GSS3
The path name size is too long.	Save the GX Developer under too many directory levels.	In Option setting, set the project of GX Developer again.
Parameter file is not found.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
	Set a wrong GX Develper project.	Create a new project of GX Developer.
An illegal PLC type is selected.	In the project of GX Developer, incompatible CPU type was specified.	Change the CPU type of the project for GX Developer.
An illegal project of 'GX Developer' is selected. Project cannot be forwarded to 'GX Simulator'.	Illegal program exists in the GX Developer project folder.	Create a new project of GX Developer.
Program file is not found.	GT Simulator3 may have not been installed correctly.	After uninstalling GT Simulator3, reinstall it.
	Illegal project of GX Developer may have been set.	Create a new project of GX Developer.

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Error message	Definition and cause	Corrective action
'GX Works2' is not properly installed. Install 'GX Works2'.	• GX Works2 (GX Simulator2) is not installed. • GX Works2 (GX Simulator2) may not be installed properly.	Reinstall GX Works2 (GX Simulator2).
'GX Simulator2' does not operate since it is not supported in this version of 'GX Works2'. Install the compliant version of 'GX Works2'.	The version of installed GX Works2 (GX Simulator2) is old.	Install version 1.03D or later of GX Works2 (GX Simulator2).
Unable to connect to 'GT Simulator3' since 'GX Simulator2' is not running. Activate 'GX Simulator2' and retry.	The simulation function of GX Works2 (GX Simulator2) is not started.	Start the simulation function of GX Works2 (GX Simulator2) and retry the operation.
Failed to connect to GX Simulator2. <ES:0x******> ********************	• An application was closed incorrectly. • Incorrect processing is activated.	• Restart GT Simulator3 and GX Works2. • Restart the personal computer and start GT Simulator3.
Failed to connect to GX Simulator2. Workspace name: ******************** Project name: ******************** Check the project name of started GX Simulator2 and the one set in GT Simulator3.	GX Simulator2 that is operating in the GX Works2 project set with GT Simulator3 does not exist.	Check the GX Works2 project specification of GT Simulator3 and started GX Simulator2 project, then change the settings.
There is no response from 'GX Simulator2' for termination request. 'GX Simulator2' is canceled. Please end 'GT Simulator3' at once and do the PC in Shutdown.	• An application was closed incorrectly. • Incorrect processing is activated.	Exit GT Simulator3 and shutdown the personal computer.
'GX Works3' is not properly installed. Install 'GX Works3'.	• GX Works3 (GX Simulator3) is not installed. • GX Works3 (GX Simulator3) may not be installed properly.	Reinstall GX Works3 (GX Simulator3).
'GX Works3' of this version does not support the simulator function. Please use 'GX Works3' of the version 1.007H or later.	The version of the installed GX Works3 (GX Simulator3) is old.	Install version 1.007H or later of GX Works3 (GX Simulator3).
Unable to connect to 'GT Simulator3' since 'GX Simulator3' is not running. Activate 'GX Simulator3' and retry.	The simulation function of GX Works3 (GX Simulator3) is not started.	Start the simulation function of GX Works3 (GX Simulator3) and retry the operation.
Failed to connect with 'GX Simulator3'. <ES:0x******> ********************	• An application was closed incorrectly. • Incorrect processing is activated.	• Restart GT Simulator3 and GX Works3. • Restart the personal computer and start GT Simulator3.
GOT type of the project is different from setting 'GT Simulator3'.	The GOT type set in the project is different from that in GT Simulator3.	Make correction so that the GOT type of the project created on GT Designer3 is the same as the GOT type of GT Simulator3.
PLC type of the project is different from setting 'GT Simulator3'.	The PLC type set in the project is different from that in GT Simulator3.	Make correction so that the PLC type of the project created on GT Designer3 is the same as the CPU type of GT Simulator3.
Project file is not found.	Project file is not available.	Specify the path of which project data exist.
Cannot access the project file.	Access to the specified project data could not be made.	Check the access privilege of the project data.
Manual file cannot be found. Please install manuals.	• GT Manual3 is not installed. • GT Manual3 is not installed correctly.	After uninstalling GT Manual3, reinstall it.
Unsupport PLC type is selected.	CPU type setting of GT Simulator3 was the unsupported CPU type.	Change the CPU type and restart monitoring.
Fail in the delete of user data. • Please close user data if it is opened. • Check the file access privilege.	Failed in erasing user data after loading screen data.	• If there is a user's data opened by another software, close that file. • Check the file access privilege.
Failed in initialize for reading. Please retry after checking the following. • Please close Dialogue if it is displayed. • Waiting for 'Offline mode'. Please wait at several seconds.	Since the message such as [This function cannot be used now] was displayed on the screen, this funciton can not be loaded.	After selecting [OK] in the dialog box to erase the on-screen message, re-load the function.
	Waiting for completion of internal process.	re-load the function after a few minutes.

Error message	Definition and cause	Corrective action
Failed in reading. Please retry after checking the following. • Data size and number of the data. • Capacity of free disk. • File access privilege of the project file. • Project file is illegal or destroyed.	Screen data size was too large.	Check the screen data size. (☞ 3.1 GOT that Can Be Simulated)
	Not enough free disk space.	Increase the free space of hard disk to more than 200M bytes.
	Can not access the project data.	Check the access privilege of the project data.
	Not compatible with the project setting.	Check whether setting is correct on GT Designer3.
	• This data is not for GOT project. • The project data was corrupted.	Use a correct project data or normal project data.

■ Error messages displayed when Device Monitor is used.

Error message	Definition and cause	Corrective action
Device Monitor files not exists!	The installation file for device monitor has been deleted.	After uninstalling GT Simulator3, reinstall it.
Memory is not enough.	Shared memory creation failed.	Secure enough memory, start GT Simulator3, and use device monitor.
Fail application setting.	The environment setting file for Device Monitor has been corrupted.	After uninstalling GT Simulator3, reinstall it.
Value is over range.	The input Device Number was outside the range.	Enter Device Number within the range.
Cannot read Data files Try to read data on GT Simulator3	GT Simulator3 did not read project data.	After using GT Simulator3 to read the project data, start the Device Monitor.
Invalid Device Number!	The input Device Number was an odd number.	Enter an even number as the Device Number.
Already exist Device Monitor.	The Device Monitor has already started.	Check the taskbar and select the Device Monitor which has already started. From Task Manager or the like, terminate the hidden Device Monitor and restart it.
Over registered count.	There are more than 65535 free register items.	Delete some registered free registration items and reregister the desired one.
Invalid NetWork or Station No.	The network input data is not correct.	Enter a value which is suitable for the network setting.
In Multiples of 16 for Word of Bit Device.	When the word was specified for the bit, the Device Number entered was not a multiple of 16.	Enter the value as a multiple of 16.
In Multiples of 16+1 for Word of Bit Device.	When the word was specified for the entry of the bit device for Yaskawa GL, the Device Number entered was not a multiple of 16+1.	Enter the value as a multiple of 16+1.
Invalid string for device.	The data input for Device is not correct.	Check the device representation characters, device number and bit position entered and register the device.
Monitoring Error(Status bar)	Communication initialization failed.	Connecting to PLC CPU after exiting Device Monitor and GT Simulator3, restart them.
□□ is invalid value.	The input Device Number has an illegal format or is outside the range.	• Enter the Device Number in a correct format. • Enter the value within the range.
□□ is over □□.	The input vale is outside the range.	Enter the value in accordance with the message instruction.

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8.3 Error Message (GOT-A900 series simulator)

The following table indicates the error messages occurred in GOT-A900 series simulator themselves, the Descriptions and resolutions.

■ Error messages displayed when GT Simulator3 is used.

Error message	Definition and cause	Corrective action
Adobe Reader is not installed correctly. Please install Adobe Reader.	• Adobe® Reader® is not installed. • Adobe® Reader® is not installed correctly.	After uninstalling Adobe® Reader®, reinstall it.
Easysocket is not installed.	Perhaps GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
Cannot terminate 'GT Simulator3'. Close every dialog and the print preview that are currently displayed.	• Dialog boxes and the print preview are displayed.	Close all dialog boxes and the print preview.
'GT Simulator3' is not correctly installed.	Can not find the Windows® registry for GT Simulator3.	After uninstalling GT Simulator3, reinstall it.
PLC type of 'GT Simulator3' setting and 'GX Developer' setting is different. Please confirm the content of 'GX Developer' setting or change the PLC type of option setting.	These two CPU type settings are different.	Change the CPU type in the GX Developer project.
Installation path of 'GT Simulator3' cannot be acquired.	Perhaps GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
This operating environment is unapplicable for 'GT Simulator3'.	Access could not be made to the file necessary to operate GT Simulator3.	• Check whether the user logs in to Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 as the user with the administrator authority (for the computer management). • Check whether the fast user switching function or the remote desktop function of Windows® XP, Windows Vista®, Windows® 7, Windows® 8, or Windows® 8.1 is in use.
	• GT Simulator3 was not closed propety. • Illegal process is running.	Resart GT Simulator3 after reboot the computer.
Please do logoff/the termination of Windows after ending 'GT Simulator3'.	Close 'GT Simulator3' before log out or shut down the Windows®.	Close 'GT Simulator3' before log out or shut down the Windows®.
Project Information of 'GX Developer' was not be acquired. GPPW.GPS or GPPW.GPJ is not found.	Set a wrong GX Developer project.	In Option setting, set the project of GX Developer again.

Error message	Definition and cause	Corrective action
Project path of 'GX Developer' cannot be acquired. <cause> • 'GT Simulator3' is not correctly installed. • Unsupport PLC type is selected. • Registry is destroyed.	• Registry information on the project path of GX Developer was corrupted. • Unsupport CPU type was specified.	In Option dialog box, set the project of GX Developer again.
	GT Simulator3 is not installed correctly.	After uninstalling GT Simulator3, reinstall it.
An illegal project of 'GX Developer' is selected.	The project specified in [GX Developer Project] of Option dialog box does not exist.	Check whether the specified GX Developer project exists.
'GX Simulator' is not installed.	• GX Simulator is not installed. • GX Simulator is not installed properly.	Install GX Simulator.
An illegal project of 'GT Developer' is selected. (SFC program) Project cannot be forwarded to 'GX Simulator'	Specified an SFC type GX Developer project.	In Option setting, set the project of GX Developer again.
Failed in the start of 'GX Simulator'. <ES: ****> ************ (2 different messages in all)	GX Simulator may be not installed correctly.	• After uninstalling GX Simulator, reinstall it. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
Insufficient memory to starting 'GX Simulator'.	Not enough Dynamic memory to start up GT Simulator.	Secure memory space. • Close unnecessary applications. • Check free hard disk space.
Failed in the initialization of 'GX Simulator'. <ES: ****> ************ (32 different messages in all)	GX Simulator may be not installed correctly.	After uninstalling GX Simulator, reinstall it.
	• GT Simulator3, GX Simulator or GX Developer was not closed properly. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
Failed in the start of Shared memory server. <ES: ****> ************ (2 different messages in all)	• GT Simulator3, GX Simulator or GX Developer was not closed properly. • Illegal process is running.	• After restarting the personal computer, restart GT Simulator3. • Reinstall the update versions of GT Simulator3, GX Simulator and/or GX Developer.
This function can't be used now.	Selected an unavailable function in GT Simulator3.	Press [OK].
The version of installed Easysocket is illegal.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
The version of installed 'GX Simulator' is illegal.	Installed an old version of GX Simulator.	Install GX Simulator of Version 5E or later.
	GT Simulator3 could not work, since language version for GT Simulator3 was different from one for GX Simulator.	Install GX Simulator which is compatible with the same language version as GT Simulator3.

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Error message	Definition and cause	Corrective action
There is no response from 'GX Simulator' for terminarion request. 'GX Simulator' is canceled. Please end 'GT Simulator3' at once and do the PC in Shutdown.	• The GT Simulator3, GX Simulator or GX Developer was closed illegally last time. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3.
The simulation cannot be ended. Please retry after shutting Dialogue on the simulation screen.	Since the message such as [This function cannot be used now] was displayed on the screen, GT Simulator3 could not be exit correctly.	After selecting [OK] in the dialog box to erase the on-screen message, exit from GT Simulator3 again.
	There was the other internal cause than the above that did not allow to exit from the software.	After selecting [OK] in the dialog box, wait for some time and exit from GT Simulator3 again.
Fail in the Snap Shot.	• The GT Simulator3 was closed illegally last time. • Illegal process is running.	• Restart GT Simulator3. • After restarting the personal computer, restart GT Simulator3.
Communication error occurred. Retry : Communication begins again. Cancel : Communication is interrupted. Please reexecute 'GT Simulator3', if simulate again. <ES: ****>	• Cable was disconnected. • The cable was broken.	After checking for the left causes, choose the button in the displayed dialog box. [Retry] Restarts communication. [Cancel] After Cancel is selected, all communications will not be made. When performing simulation, restart GT Simulator3.
	Transmission speed (Baud rate) is incorrect.	
	The PLC CPU type is different from that of the project setting.	
Check communication.	• Cable was disconnected. • The cable was broken.	Check the cable.
	Transmission speed (Baud rate) is incorrect.	Check the transmission speed (Baud rate) of the CPU.
	The PLC CPU type is different from that of the project setting.	Check the connection target PLC.
Failed in the start of Device Monitor.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
Failed in the end of Device Monitor.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
The path name size is too long.	Save the GX Developer under too many directory levels.	In Option setting, set the project of GX Developer again.
Parameter file is not found.	GT Simulator3 may be not installed correctly.	After uninstalling GT Simulator3, reinstall it.
	Set a wrong GX Developer project.	Create a new project of GX Developer.
An illegal PLC type is selected.	In the project of GX Developer, incompatible CPU type was specified.	Change the CPU type of the project for GX Developer.
An illegal project of 'GX Developer' is selected. Project cannot be forwarded to 'GX Simulator'.	Illegal program exists in the GX Developer project folder.	Create a new project of GX Developer.
Program file is not found.	GT Simulator3 may have not been installed correctly.	After uninstalling GT Simulator3, reinstall it.
	Illegal project of GX Developer may have been set.	Create a new project of GX Developer.

(Continued to next page)

Error message	Definition and cause	Corrective action
GOT type of the project is not correct.	The GOT type set in the project is other than the GOT-A900 series (GOT-F900 series).	Change the GOT type of the project created in GT Designer or GT Designer2 to the GOT-A900 series.
PLC type of the project is different from setting 'GT Simulator3'.	The PLC type set in the project is different from that in GT Simulator3.	Make correction so that the PLC type of the project created on GT Designer or GT Designer2 is the same as the CPU type of GT Simulator3.
Project file is not found.	Project file is not available.	Specify the path of which project data exist.
Cannot access the project file.	Access to the specified project data could not be made.	Check the access privilige of the project data (e.g. a9gotp.got).
Manual file cannot be found. Please install manuals.	• GT Manual3 is not installed. • GT Manual3 is not installed correctly.	After uninstalling GT Manual3, reinstall it.
Unsupport PLC is selected.	CPU type setting of GT Simulator3 was the unsupported CPU type.	Change the CPU type and restart monitoring.
Failed in reading. Please retry after checking the following. • Please close Dialogue if it is displayed. • Waiting for 'Offline mode'. Please wait at several seconds. • Capacity of free disk. • File access privilege of the project file. • Project file is illegal or destroyed.	Not enough free disk space.	Increase the free space of the hard disk to 100MB or more.
	Since the message such as [This function can't be used now.] is displayed on the screen, read cannot be performed.	After choosing "OK" in the dialog box to erase the on-screen message, perform read again.
	Waiting for the end processing of the script function. (Waiting for offline mode)	After the message "Off-Line processing execution" appears on the screen, perform read again.
	GT Simulator3 cannot access the project data.	Check the access privilege of the project data (e.g. a9gotp.got).
	• This data is not for GOT project. • The project data was corrupted.	Use a correct project data or normal project data.
Failed in reading. Please retry after checking the following. • Data size and number of the data. • Capacity of free disk.. • Please close Dialogue if it is displayed. • Waiting for 'Offline mode'. Please wait at several seconds. • File access privilege of the project file. • Project file is illegal or destroyed.	Screen data size is too large.	Check the screen data size. (☞ 3.1 GOT that Can Be Simulated)
	Not enough user memory.	After deleting all, download all user data.
	Not enough free disk space.	Increase the free space of the hard disk to 200MB or more.
	Since the message such as [This function can't be used now.] is displayed on the screen, read cannot be performed.	After choosing [OK] in the dialog box to erase the on-screen message, perform read again.
	Waiting for the end processing of the script function. (Waiting for offline mode)	After the message [Off-Line processing execution] appears on the screen, perform read again.
	GT Simulator3 cannot access the project data.	Check the access privilege of the project data (e.g. a9gotp.got).
	• This data is not for GOT project. • The project data was corrupted.	Use a correct project data or normal project data.
Fall to delete recipe files. • Please close recipe file if it is opened. • Check the file access privilege.	Failed in erasing user data after loading screen data.	• If there is a user's data opened by another software, close that file. • Check the file access privilege.

■ **Error messages displayed when Device Monitor is used.**

The same error messages are displayed as those of when GOT1000 series simulator is used.

☞ 8.2 Error Message (GOT1000 series simulator)

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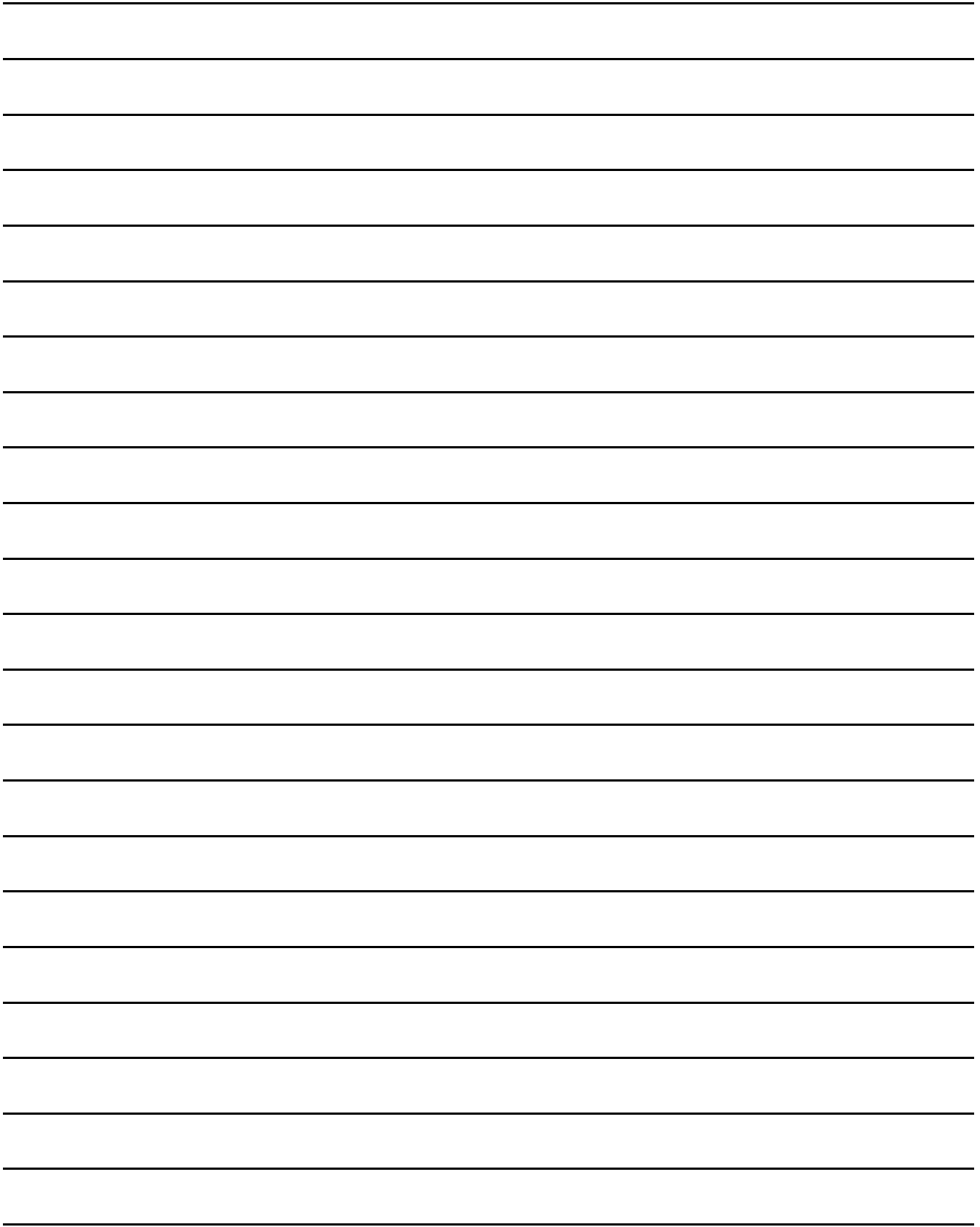
APPENDICES

Appendix1   Applicable Project Data

Use the same version of GT Simulator3 as that of GT Designer3 that the project data is created.

| GT Simulator3 version | GT Designer3 version |

HINT
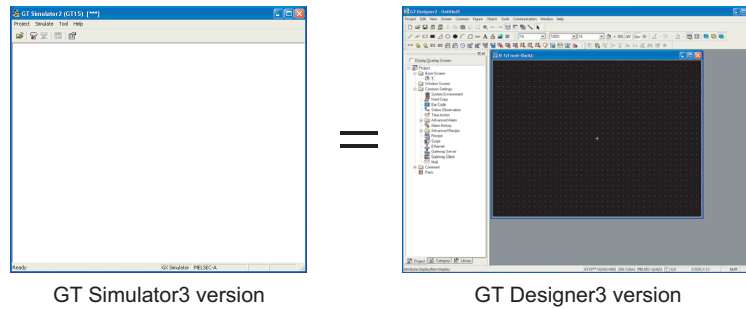
When using project data created on GT Designer3 that the version is earlier than that of GT Simulator3
Open the project data on GT Designer3 that the version is the same as that of GT Simulator3, and save the project data.

Refer to the following for point of cautions on using the project data converted with GT Designer before SW3D5C-GOTR-Pack or with GT Converter.

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REVISIONS

Print Date	* Manual Number	Revision
Oct., 2009	SH(NA)-080861ENG-A	First printing : Compatible with GT Simulator3 Version1.01B
Jan., 2010	SH(NA)-080861ENG-B	Compatible with GT Simulator3 Version1.10L • Reading GT Designer3 format files (.GTW) • OMRON PLC (compatible with SYSMAC CJ2 and CP1E) • Connection with LCPUs supported
May, 2010	SH(NA)-080861ENG-C	Compatible with GT Simulator3 Version1.14Q • Windows® 7 supported • Connection with Q50UDEHCPU and Q100UDEHCPU supported.
Jun., 2010	SH(NA)-080861ENG-D	Compatible with GT Simulator3 Version1.17T • Connection with LJ72GF15-T2 supported
Jan., 2011	SH(NA)-080861ENG-E	Compatible with GT Simulator3 Version1.23Z • Simulation of project data for GT10 supported • USB connection with FXCPU supported
Apr., 2011	SH(NA)-080861ENG-F	Compatible with GT Simulator3 Version1.28E • GT1655-V supported • GT Designer3 Help supported
Jul., 2011	SH(NA)-080861ENG-G	Compatible with GT Simulator3 Version1.31H • Windows® 7 64-bit OS supported • Connection with L02CPU-P and L26CPU-PBT supported
Oct., 2011	SH(NA)-080861ENG-H	Compatible with GT Simulator3 Version1.37P • Simulation of project data for GT14 supported • Description of simulating project data for GT12 added
Jan., 2012	SH(NA)-080861ENG-I	Partial corrections
Apr., 2012	SH(NA)-080861ENG-J	Compatible with GT Simulator3 Version1.45X • Connection with FX3GC supported
Sep., 2012	SH(NA)-080861ENG-K	Compatible with GT Simulator3 Version1.58L • The company name of Panasonic Electric Works Co., Ltd. is changed to Panasonic Corporation. • The GT14 supports the operator authentication. • The information site on the Internet is changed to the Mitsubishi Electric Factory Automation Global Website.
Nov., 2012	SH(NA)-080861ENG-L	SAFETY PRECAUTIONS changed
Feb., 2013	SH(NA)-080861ENG-M	Compatible with GT Simulator3 Version1.67V • Connection with Q03UDVCPU, Q04UDVCPU, Q06UDVCPU, Q13UDVCPU, Q26UDVCPU, L02SCPU, and L26CPU supported
May, 2013	SH(NA)-080861ENG-N	Compatible with GT Simulator3 Version1.70Y • Connection with Q170MSCPU, Q170MSCPU-S1, and L06CPU supported
Jun., 2013	SH(NA)-080861ENG-O	Compatible with GT Simulator3 Version1.74C • The company name of GE Fanuc Automation Corporation is changed to GE Intelligent Platforms. • The company name of Panasonic Corporation is changed to Panasonic Industrial Devices SUNX Co., Ltd. • The company name of Fuji Electric FA Components & Systems Co., Ltd. is changed to FUJI ELECTRIC CO., LTD. • Windows® 8 supported • Connection with L02SCPU-P, L06CPU-P, L26CPU-P, and FX3S supported

Print Date	* Manual Number	Revision
Sep., 2013	SH(NA)-080861ENG-P	Compatible with GT Simulator3 Version1.100E • GT27 and GT23 supported • Changed the error message displayed when GT Simulator3 is used.
Nov., 2013	SH(NA)-080861ENG-Q	Compatible with GT Simulator3 Version1.104J • FX3U-232-ADP-MB supported
Jan., 2014	SH(NA)-080861ENG-R	Compatible with GT Simulator3 Version1.108N • Windows® 8.1 supported • Precautions for using the GT Simulator3 are added.
Apr., 2014	SH(NA)-080861ENG-S	Compatible with GT Simulator3 Version1.111R • Connection with AB PLC (MicroLogix1400) supported • Device range extension of MicroLogix1000/1200/1400/1500 supported
Jun., 2014	SH(NA)-080861ENG-T	Compatible with GT Simulator3 Version1.117X • Connection with R04CPU, R08CPU, R16CPU, R32CPU, and R120CPU supported
Jul., 2014	SH(NA)-080861ENG-U	Compatible with GT Simulator3 Version1.118Y • Connection with FUJI PLC (MICREX-SX SPH3000 and SPH2000) supported
Oct., 2014	SH(NA)-080861ENG-V	Compatible with GT Works3 Version1.122C • GT Works3 Version1 is no longer compatible with Windows® XP Service Pack2 and Windows® 2000. • GT1450-QMBDE and GT1450-QMBD are supported.
Jan., 2015	SH(NA)-080861ENG-W	Compatible with GT Works3 Version1.126G • Connection with the motion controller CPU (MELSEC iQ-R series) is supported. • Connection with MELSEC iQ-F is supported.
Apr., 2015	SH(NA)-080861ENG-X	Compatible with GT Simulator3 Version1.130L • Linking to GX Simulator3 is supported. • Connection with R08PCPU, R16PCPU, R32PCPU, and R120PCPU is supported. • Connection with R12CCPU-V supported
May, 2015	SH(NA)-080861ENG-Y	Compatible with GT Simulator3 Version1.131M • The operating environment of GT Simulator3 has been changed.
Jul., 2015	SH(NA)-080861ENG-Z	Compatible with GT Simulator3 Version1.136S • Connection with R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, and R120ENCPU is supported. • The folder name [MELSOFT Application] displayed in the Windows® start menu has been changed to [MELSOFT].

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Integrated FA Software
GT Simulator3 Version1

Operating Manual

for GT Works3

MITSUBISHI ELECTRIC CORPORATION

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.

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