

MITSUBISHI



Integrated FA Software

GT Simulator3

Version1

Operating Manual

for GT Works3

A collage of four grayscale images: top-left shows a complex industrial control panel with various gauges and buttons; top-right shows a close-up of a computer keyboard; bottom-left shows a hand holding a computer mouse; bottom-right shows a Mitsubishi industrial control panel with a digital display and several analog meters labeled 'Motor A', 'Motor B', 'Motor C', and 'Motor D'.

GT Simulator3

SW1DNC-GTWK3-E

● 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 "DANGER" and "CAUTION".



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



Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical 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]

DANGER

- 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.

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REVISIONS

MANUALS

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

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 CD-ROM	SH-080866ENG (1D7MB9)
GT Designer3 Version1 Screen Design Manual (Functions) 1/2, 2/2	Stored in CD-ROM	SH-080867ENG (1D7MC1)
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	Stored in CD-ROM	SH-080868ENG (1D7MC2)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3	Stored in CD-ROM	SH-080869ENG (1D7MC3)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3	Stored in CD-ROM	SH-080870ENG (1D7MC4)
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3	Stored in CD-ROM	SH-080871ENG (1D7MC5)
GOT1000 Series Gateway Functions Manual for GT Works3	Stored in CD-ROM	SH-080858ENG (1D7MA7)
GOT1000 Series MES Interface Function Manual for GT Works3	Stored in CD-ROM	SH-080859ENG (1D7MA8)
GT SoftGOT1000 Version3 Operating Manual for GT Works3	Stored in CD-ROM	SH-080860ENG (1D7MA9)
GT Simulator3 Version1 Operating Manual for GT Works3	Stored in CD-ROM	SH-080861ENG (1D7MB1)
GT Converter2 Version3 Operating Manual for GT Works3	Stored in CD-ROM	SH-080862ENG (1D7MB2)
GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3	Stored in CD-ROM	SH-080863ENG (1D7MB3)
GT16 User's Manual (Hardware)	Stored in CD-ROM	SH-080928ENG (1D7MD3)
GT16 User's Manual (Basic Utility)	Stored in CD-ROM	SH-080929ENG (1D7MD4)
GT16 Handy GOT User's Manual	Stored in CD-ROM	JY997D41201 JY997D41202 (09R821)
GT15 User's Manual	Stored in CD-ROM	SH-080528ENG (1D7M23)
GT14 User's Manual	Stored in CD-ROM	JY997D44801 (09R823)
GT12 User's Manual	Stored in CD-ROM	SH-080977ENG (1D7ME1)
GT11 User's Manual	Stored in CD-ROM	JY997D17501 (09R815)
GT11 Handy GOT User's Manual	Stored in CD-ROM	JY997D20101 JY997D20102 (09R817)
GT10 User's Manual	Stored in CD-ROM	JY997D24701 (09R819)

QUICK REFERENCE

■ 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 controllers to 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	<ul style="list-style-type: none">• GT16 User's Manual (Hardware)• GT16 User's Manual (Basic Utility)• GT16 Handy GOT User's Manual
Installing the GOT	<ul style="list-style-type: none">• 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
Operating the utility	
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
GT1695	GT1695M-X	Abbreviation of GT1695M-STBA, GT1695M-STBD
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-QTBD, GT1455-QTBD
	GT1450-Q	Abbreviation of GT1450-QLBD, 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, GT1020-LWD2, 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	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
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□DNC-GTWK3-E and SW□DNC-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 Works2	Abbreviation of SW□DNC-GXW2-E and SW□DNC-GXW2-EA type programmable controller engineering software
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□DNC-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)
LCPU Logging Configuration Tool	Abbreviation of LCPU 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 FA	Abbreviation of Fuji Electric FA Components & Systems Co., Ltd.
PANASONIC	Abbreviation of Panasonic Corporation
FUJI SYS	Abbreviation of Fuji Electric Systems 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 FANUC	Abbreviation of GE Fanuc Automation Corporation GE Fanuc Automation Corporation
LS IS	Abbreviation of LS Industrial Systems Co., 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

HOW TO READ THIS MANUAL

The following symbols are used in this manual.

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.

- Perform either of the following operations.
 - Click  (Option).
 - Select [Simulate] → [Option].
 - Right-click the mouse and select [Option].
- The Option dialog box is displayed. After setting each item, 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.

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


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

Shows a chapter, section, relevant manual, or others of relevant information.

POINT Refers to information required for operation.

HINT Refers to information useful for operation.

2.4.7 Connecting to Omron PLC CPU

 Shows an applicable simulator.

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


RS-232 cable


GT08-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	Signal name	Cable connection and signal direction	Omron products side	
			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	-

 Shows a model of GOT1000 series. Example) GOT1000 series GT16 simulator

 Shows GOT1000 series simulators.

 Shows GOT-A900 series simulators.

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

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

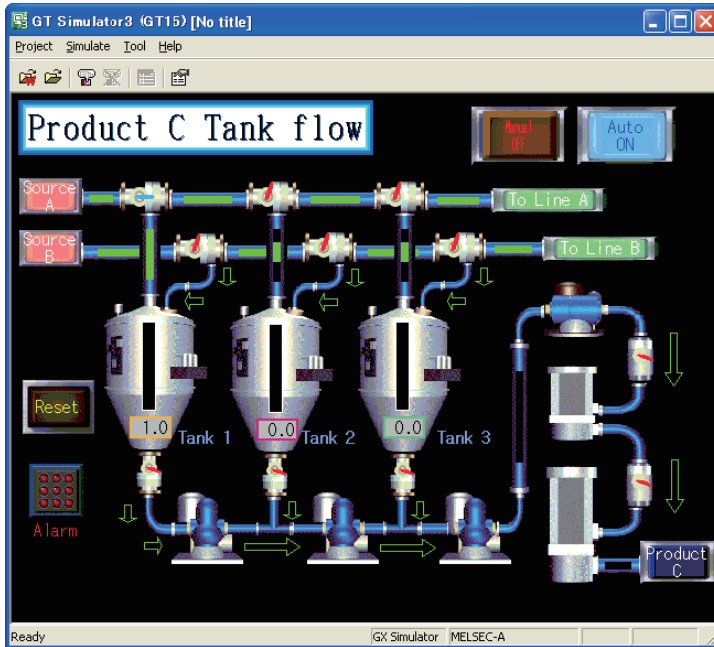
1.1 Features

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

GT Simulator3 supports the project data simulation of GOT1000 series and GOT-A900 series.

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

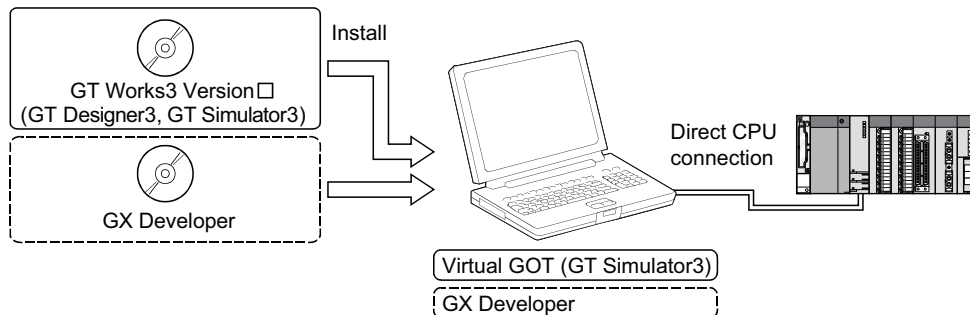
(☞ 5.2 Starting GT Simulator3)



■ 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.

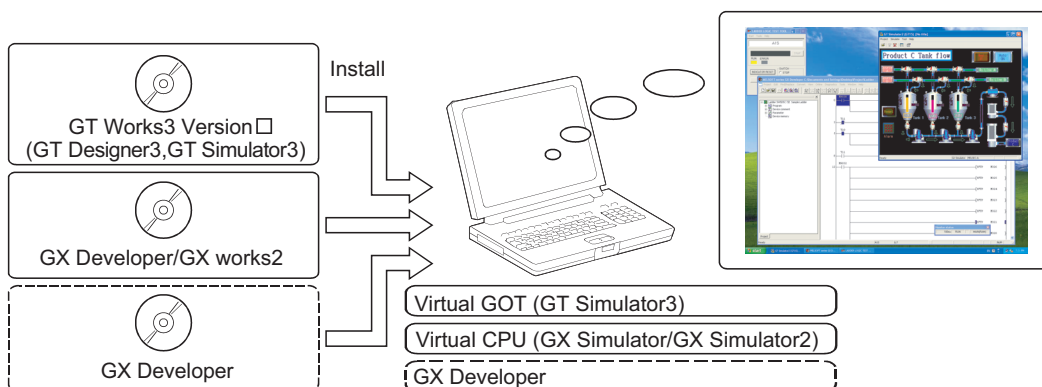


(2) Interaction with GX Developer and GT Works2

GT Simulator3 is available to debug screens with GX Developer or GX Works2.

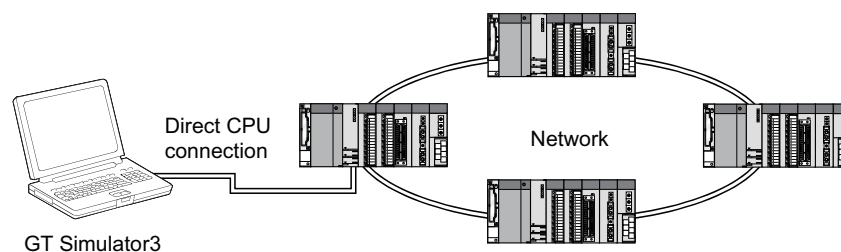
Installation of GX Developer or GX Works2, and GT Designer3 on the same personal computer allows operations from screen creation to screen debug to be supported by a single personal computer.

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

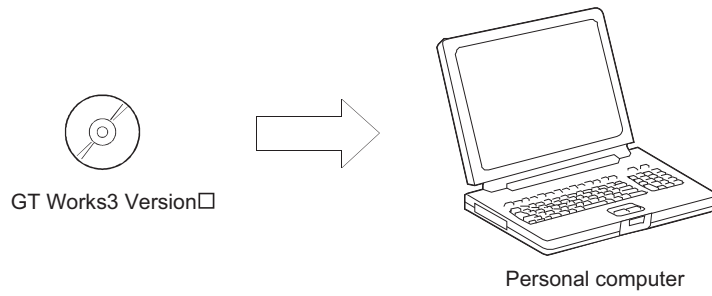
Monitoring speed when GT Simulator3 is directly connected to CPU

When GT Simulator3 is connected directly with the PLC CPU, monitoring speed is lower than when it is connected with GX Simulator or GX Works2.

2. SYSTEM CONFIGURATION

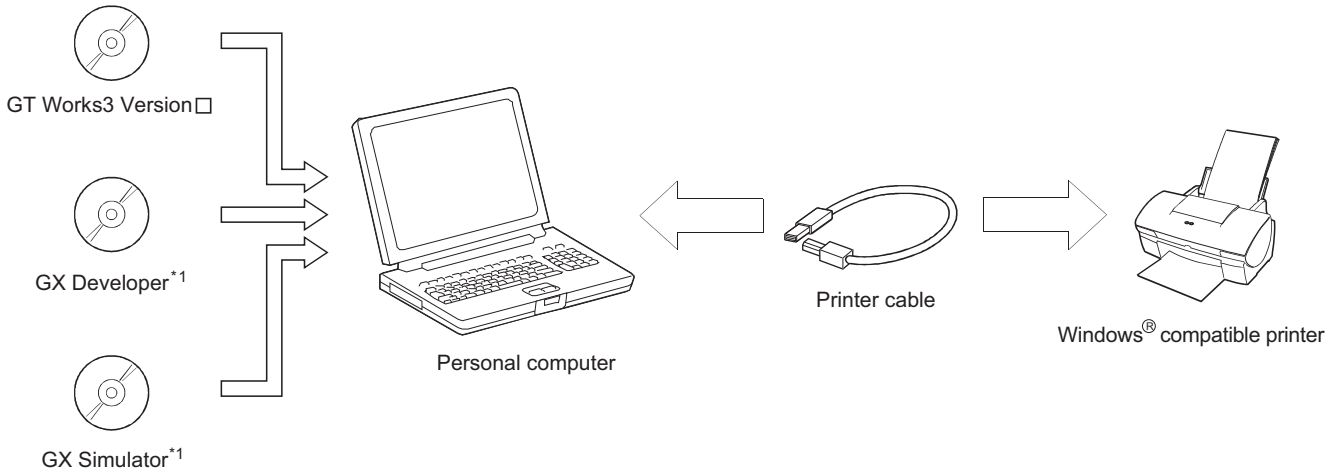
2.1 System Configuration

■ When installing GT Simulator3

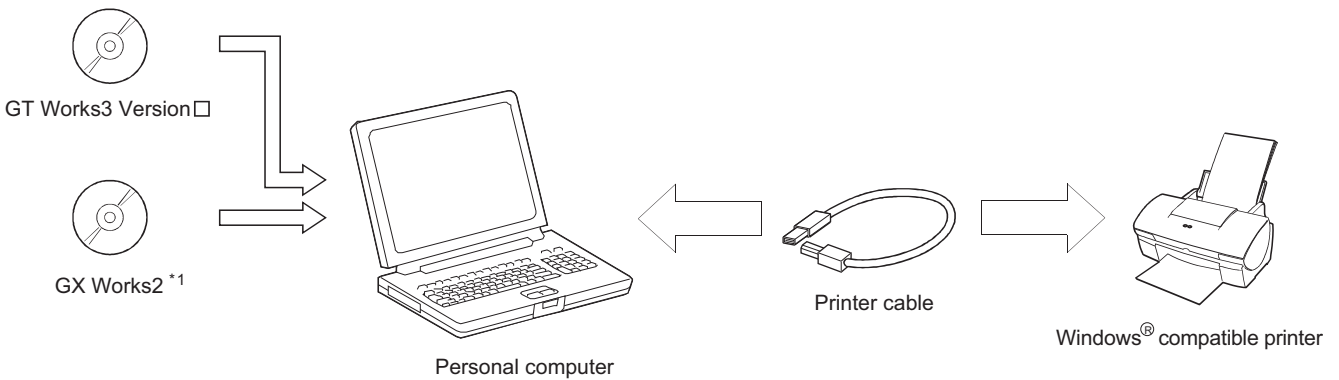


■ When executing GT Simulator3

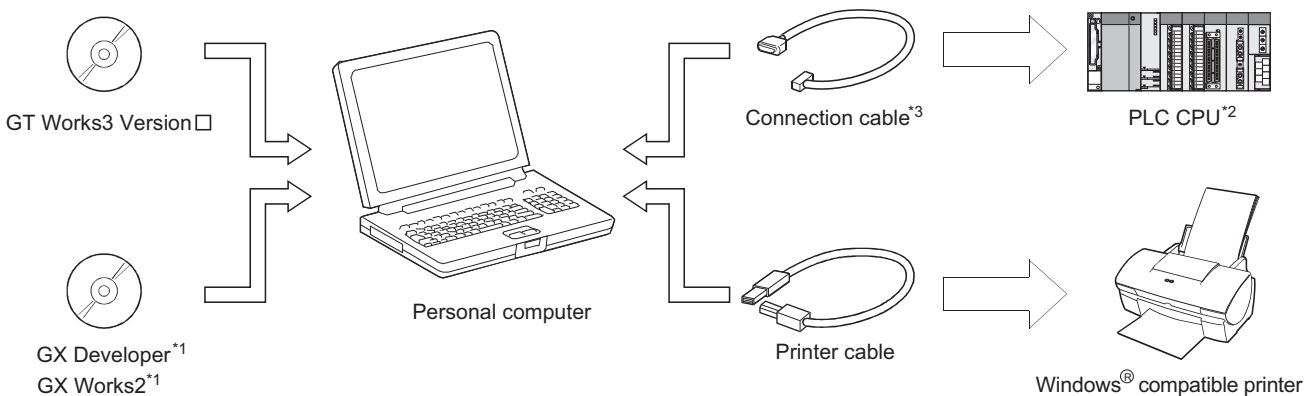
(1) When connecting to GX Simulaton



(2) When connecting to GX Simulaton



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



*1 For the installation methods of GX Developer and GX Simulator or GX Simulator2, refer to the following manual.

☞ GX Developer Version□ Operating Manual (Start up)
GX Works2 Installation Procedure Manual

*2 For PLC CPUs that can be simulated, refer to the following.

☞ 2.3 PLC CPUs that Can Be Simulated

*3 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	<ul style="list-style-type: none"> • Microsoft® Windows® 2000 Professional Service Pack4 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*2} • Microsoft® Windows® XP Professional Service Pack2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows® XP Home Edition Service Pack2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} 	<ul style="list-style-type: none"> • Microsoft® Windows Vista® Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows Vista® Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows Vista® Business (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows Vista® Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows Vista® Home Basic (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7} • Microsoft® Windows® 7 Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*8*9*10} • Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*8*9*10} • Microsoft® Windows® 7 Professional (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*8*9*10} • Microsoft® Windows® 7 Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*8*10} • Microsoft® Windows® 7 Starter (English, Simplified Chinese, Traditional Chinese, Korean, German versions)^{*3*4*7}
CPU	1GHz or more recommended	
Memory	512MB or more recommended	1GB or more recommended
Display	Resolution of XGA (1024 × 768 dots) or more	
Hard disk space ^{*1}	For installation: 2GB 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 <ul style="list-style-type: none"> • 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^{*5} When using GX Simulator : GX Simulator Version5.00A or later ^{*6} When using GX Simulator2 : GX Works2 Version1.12N or later ^{*6} (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 GT Simulator3.

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

- *4 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
- *5 Use GT Designer2 Classic included in GT Works3 that contains GT Simulator3
 - ☞ 3.3.1 (9) GT Simulator3 Versions
- *6 Use the products compatible with the same language as for GT Simulator3, GX Developer, GX Simulator or GX Simulator2.
- *7 Only the 32-bit OS is available.
- *8 The 32-bit OS and the 64-bit OS are available.
- *9 Windows XP Mode is not supported.
- *10 Windows Touch is not supported.

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 GX Simulator and GX Simulator2, which simulates the PLC CPU

The following shows the software version of GX Simulator and GX Simulator2, which simulates the PLC CPU.

PLC CPU simulated	GX Simulator	GX Simulator2
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		Version1.24A or later
QCPU (Q mode), (except Q00J/Q00/Q01CPU)		Version1.12N or later
Q00JCPU, Q00CPU, Q01CPU	Version6.00A or later	-
Q02PHCPU, Q06PHCPU	Version7.20W or later	-
Q12PHCPU, Q25PHCPU	Version6.10L or later	-
Q12PRHCPU, Q25PRHCPU	Version6.20W or later	-
FX3UC series	Version7.08J or later	Version1.24A or later
FX3U series		
FX3G series		
FX3GC series	-	Version1.77F 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
LCPU	-	Version1.24A or later
Q50UDEHCPU, Q100UDEHCPU	-	Version1.30G 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				
QCPU	QCPU (Q Mode)	Q00JCPU, Q02HCPU, Q02PHCPU, Q12PRHCPU, Q00UJCPU, Q03UDCPU, Q13UDHCPU, Q03UDECPU, Q13UDEHCPU, Q100UDEHCPU	Q00CPU, Q06HCPU, Q06PHCPU, Q25PRHCPU, Q00UCPU, Q04UDHCPU, Q20UDHCPU, Q04UDEHCPU, Q20UDEHCPU,	Q01CPU, Q12HCPU, Q12PHCPU, Q01UCPU, Q06UDHCPU, Q26UDHCPU, Q06UDEHCPU, Q26UDEHCPU,	Q02CPU, Q25HCPU, Q25PHCPU, Q02UCPU, Q10UDHCPU, Q10UDEHCPU, Q50UDEHCPU,	
	QCPU (A Mode)	Q02CPU-A,	Q02HCPU-A,	Q06HCPU-A		
Network module		QJ72LP25-25,	QJ72LP25G,	QJ72BR15		
LCPUCPU		L02CPU,	L02CPU-P,	L26CPU-BT,	L26CPU-PBT	
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	
		AnNCPUCPU	A1NCPUCPU,	A2NCPUCPU,	A2NCPUCPU-S1,	A3NCPUCPU
	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					
FXCPU		A0J2HCPU,	A2CCPU,	A2CCPUC24,	A2CJCPU	
FXCPU		FX0 series, FX1 series, FX2 series, FX3G 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	Q series	Q170MCPUCPU ^{*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.

*2 Monitoring is allowed in the A2SHCPU device range.

*3 Monitoring is allowed in the A3UCPU device range.

(2) OMRON PLC*1

(a) Compatible model

Type	Model name			
PLC CPU	CPM2A			
	CQM1,	CQM1H		
	CS1,	CS1D		
	CJ1H,	CJ1G,	CJ1M,	CJ2H
	C200H α 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	Direct CPU connection	GX Simulator ^{*7}
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	Q series ^{*4}	○	○	×	×	×
	A series	○ ^{*10}	○ ^{*10}	×	○	○
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 PLC		×	△	×	×	△
HITACHI IES EW PLC		×	△	×	×	△
HITACHI PLC		×	△	×	×	×
FUJI FA PLC		×	△	×	×	×
YASKAWA PLC		×	△	×	×	△
YOKOGAWA PLC		×	△	×	×	×
ALLEN-BRADLEY PLC		×	△	×	×	△
GE FANUC PLC		×	△	×	×	×
LS IS PLC		×	△	×	×	×
SICK PLC		×	△	×	×	×
SIEMENS PLC		×	△	×	×	△

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

- *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 LCPUs.)

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

○ : Applicable × : N/A

- *3 When simulating AnNCPUs(S1), A2SCPU, A0J2HCPUs or A2CCPU, writing is allowed for the following software version or later.
 Writing is not allowed for the prior versions.
- AnNCPUs(S1) : Version L or later for the one with link, version H or later for the one without link.
 - A2SCPU : Version H or later
 - A0J2HCPUs : Version E or later
 - A2CCPU : Version H or later
- *4 Only the PLC CPU area (CPU No.1) in the Q170MCPUs is available for simulation.
- *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 ACPUs.
 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 [LCPUs], the simulation can be performed in the Q26UDHCPUs device range.
 For details, refer to the following.
 3.3.2 (4) When simulating a project data in which [LCPUs] 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.

POINT

Device range that can be simulated by the GT Simulator3

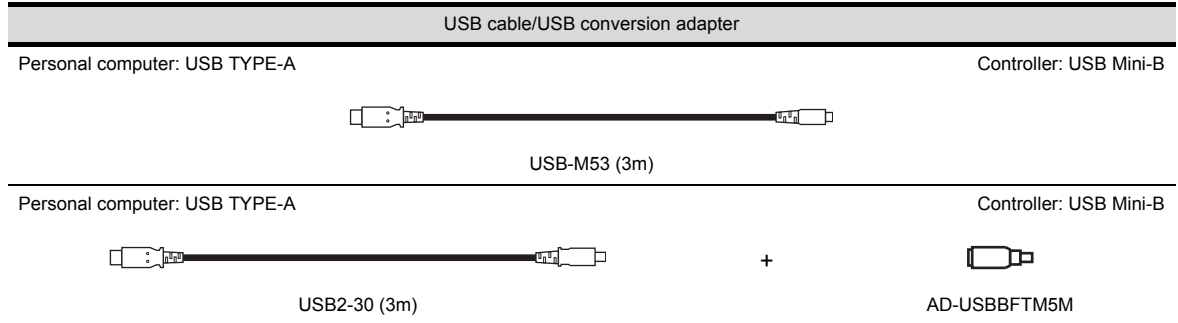
For device range that can be simulated by the GT Simulator2, refer to the following.

 3.4 Device Ranges that Can Be Simulated

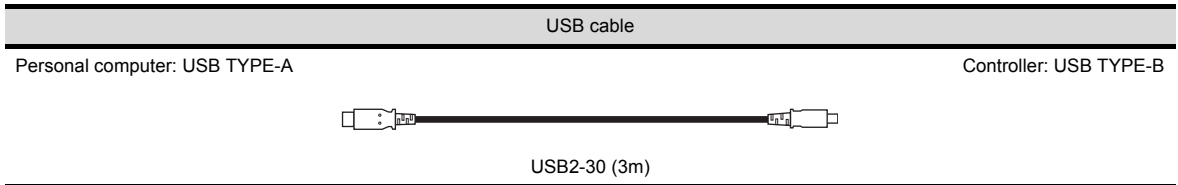
■ **Using product manufactured by ELECOM CO., LTD. (Recommended Product)**

- Connection via USB cable
For users employing GOT1000 series simulator

(a) With Universal model QCPU



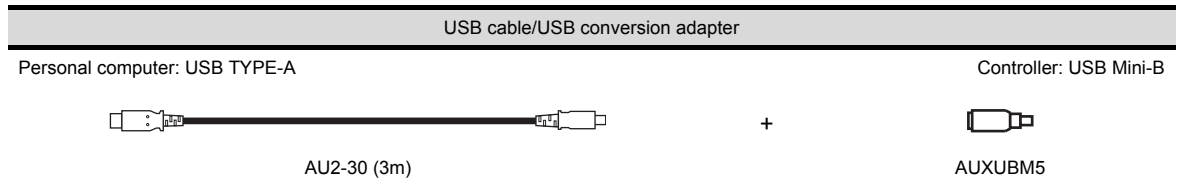
(b) With Basic model QCPU, High Performance model QCPU, Process CPU, Redundant CPU



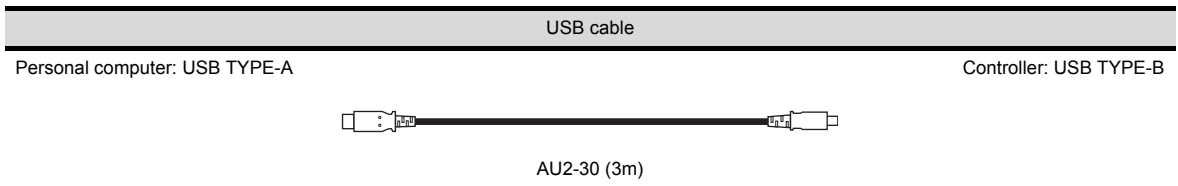
■ **Using product manufactured by BUFFALO KOKUYO SUPPLY INC. (Recommended Product)**

- Connection via USB cable
For users employing GOT1000 series simulator

(a) With Universal model QCPU

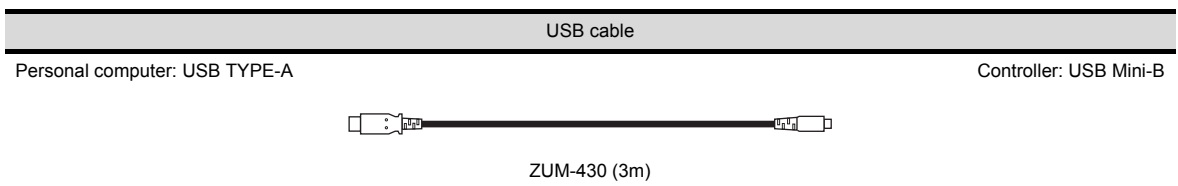


(b) With Basic model QCPU, High Performance model QCPU, Process CPU, Redundant CPU



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

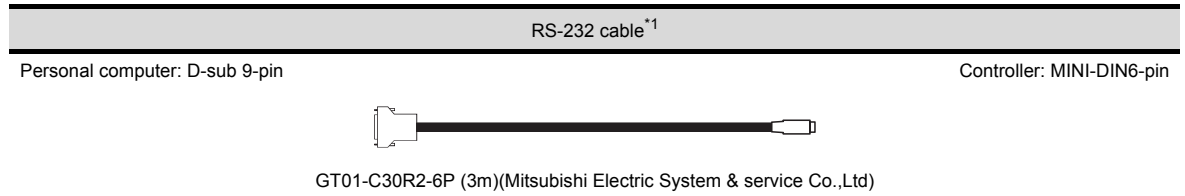
- Connection via USB cable
For users employing GOT1000 series simulator
- With Universal model QCPU



2.4.2 Connecting to LCPU

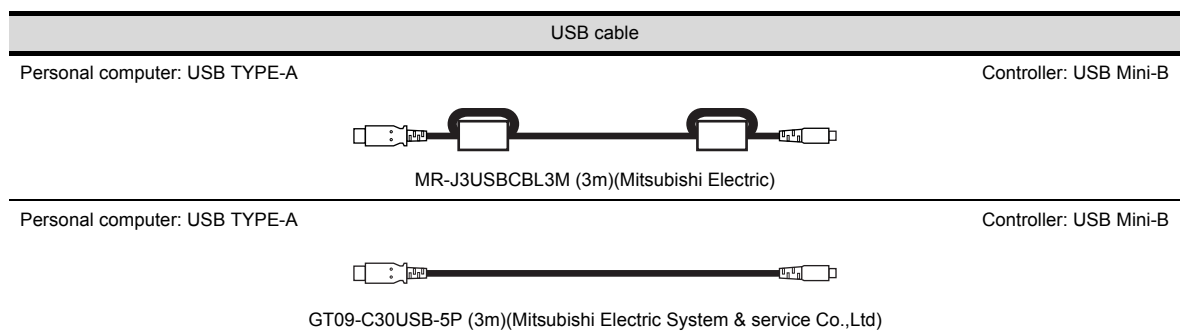
■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.

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



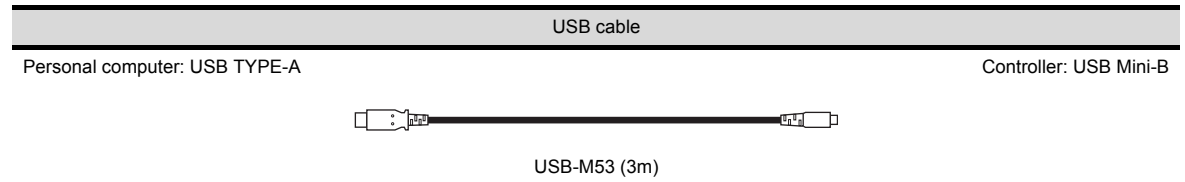
*1 The adapter L6ADP-R2 is required for the direct CPU connection.

(2) Connection via USB cable



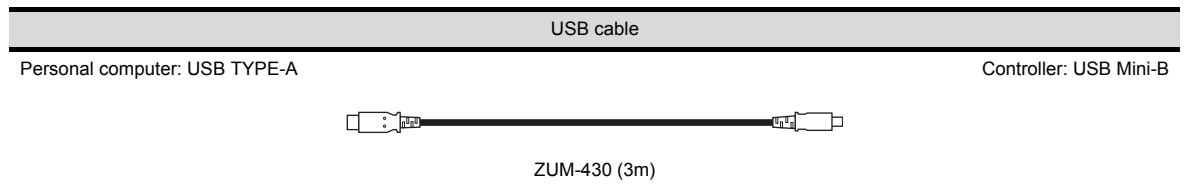
■ Using product manufactured by ELECOM CO., LTD. (Recommended Product)

Connection via USB cable



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


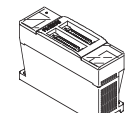






Connection via USB cable



2.4.3 Connecting to QnACPU, ACPU, motion controller CPU (A series) and FXCPU

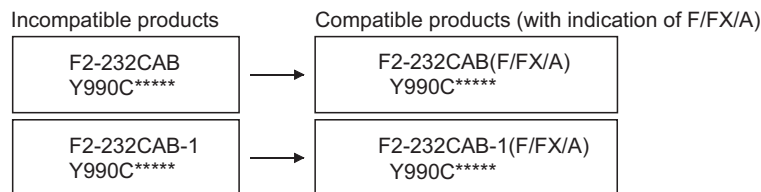
■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.

(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)	 FX-422CAB0(1.5m) (Mitsubishi Electric) (For connecting to FX0/FX0S/FX0N/FX1S/FX1N/FX2N/ FX1NC/FX2NC/FX3G/FX3GC/FX3U/FX3UCCPU)

*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.



*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
For connection to the function extension board or communication special adapter of FX1S/FX1N/FX2N/
FX1NC/FX2NC/FX3G/FX3GC/FX3U/FX3UCCPU, the following cables are available.

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
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	
FX3UC series (FX3UC-□□/D, FX3UC-□□/DSS)	-	FX3U-232ADP	9-pin D-sub
FX3G series	FX3G-232-BD	-	9-pin D-sub
	FX3G-CNV-BD	FX3U-232ADP	
FX3GC series	-	FX3U-232ADP	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	

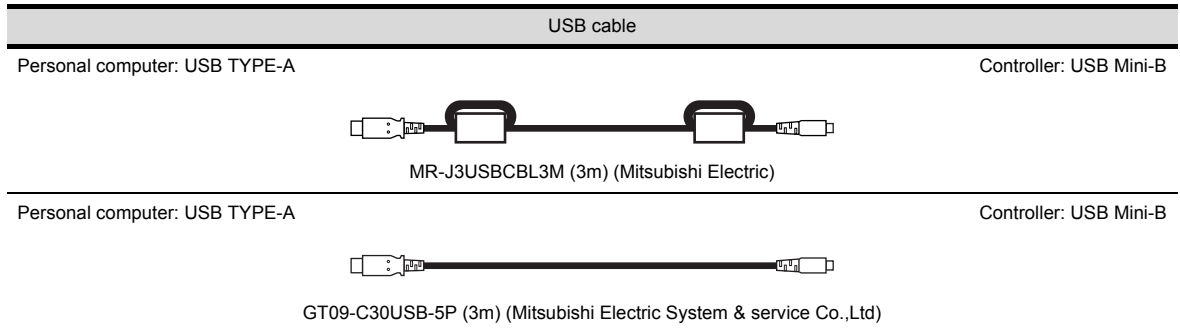
*2 The following system configurations are available in the GT01-C30R2-25P.

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	
FX3UC series (FX3UC-□□/D, FX3UC-□□/DSS)	-	FX3U-232ADP	25-pin D-sub
FX3G series	FX3G-232-BD	-	25-pin D-sub
	FX3G-CNV-BD	FX3U-232ADP	
FX3GC series	-	FX3U-232ADP	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	

1 OVERVIEW
2 SYSTEM CONFIGURATION
3 SPECIFICATIONS
4 SCREEN CONFIGURATION OF GT SIMULATOR3
5 GT SIMULATOR3 OPERATING METHOD
6 FUNCTIONS OF GT SIMULATOR3
7 DEVICE MONITOR
8 TROUBLE SHOOTING

(2) Connection via USB cable

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




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).

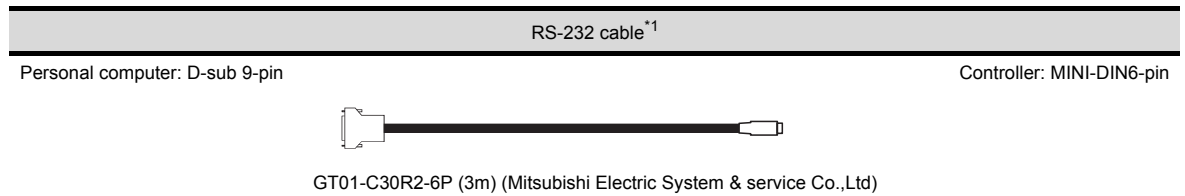
1. Make sure to touch the static discharge wrist strap or grounded metal before operation and discharge electrostatic from cables, human body or others.
2. Turn off the PC.
3. Turn off the converter.
Ground the FG terminal if provided.
4. Insert and remove the converter/cable connected to the PC and PLC.
5. Turn on the converter.
6. Turn on the PC.
7. Start the software package.

2.4.4 Connecting to MELSECNET/H remote I/O station

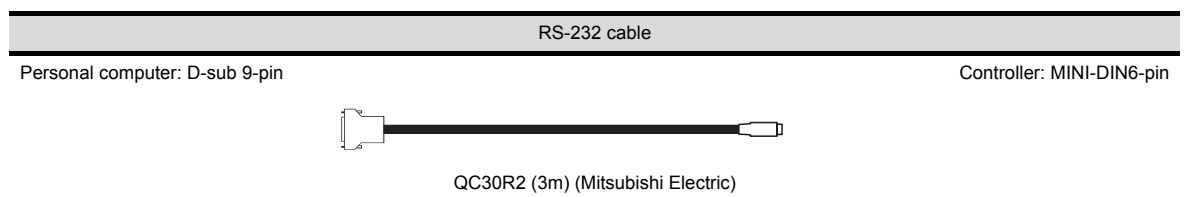
■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.

At the connection with the RS-232 cable

(1) For users employing GOT1000 series simulator



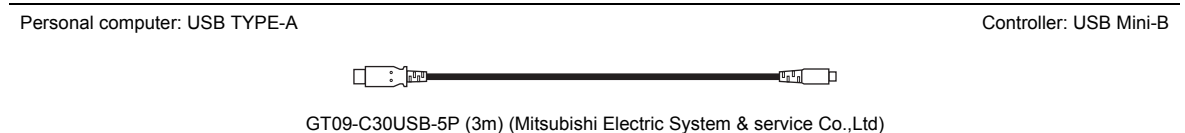
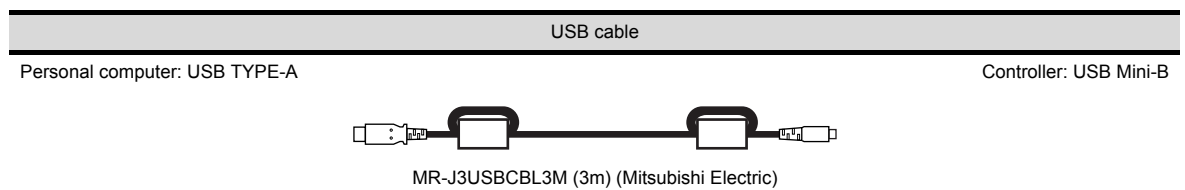
(2) For users employing GOT-A900 series simulator



2.4.5 Connecting to CC-Link IE Field Network head module

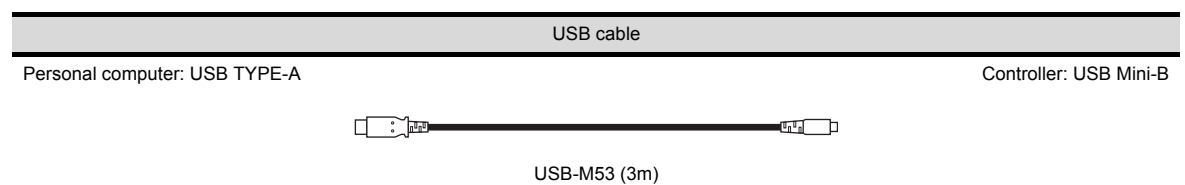
■ Using MITSUBISHI product or product manufactured by Mitsubishi Electric System & Service Co., Ltd.

Connection via USB cable



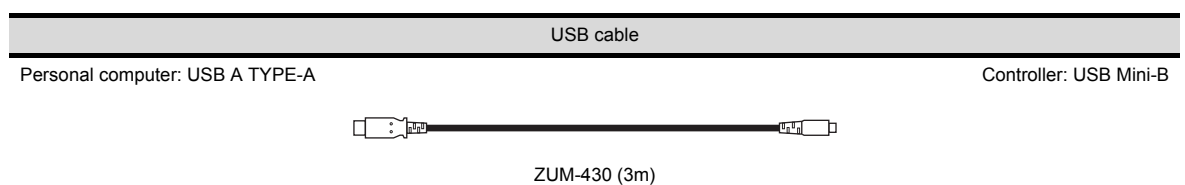
■ Using product manufactured by ELECOM CO., LTD. (Recommended Product)

Connection via USB cable



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

Connection via USB cable



2.4.6 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	
		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

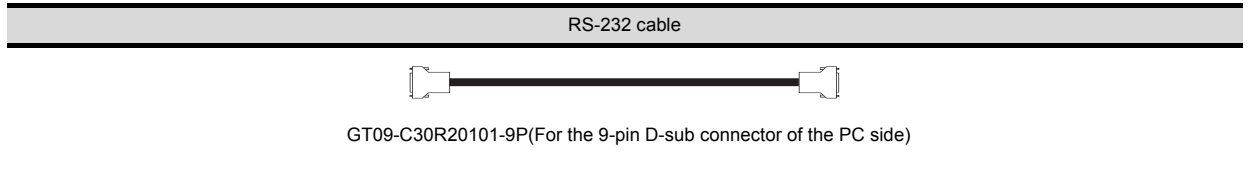
■ Precautions for creating cables

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

2.4.7 Connecting to Omron PLC CPU



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



■ 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 Signal name	Cable connection and signal direction	Omron products side	
		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		

■ 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		

*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, Clean, Multimedia setting	Transparent mode, Video/RGB setting ,
		Display	Screen save time, Battery alarm display,	Screen save backlight, Brightness,contrast
		Operation	Key sensitivity, Touch panel calibration,	Key reaction speed, Touch detection mode
		GOT maintenance function	Maintenance timing setting, GOT start time,	Addition times reset, 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, Video display function ^{*3} , Multimedia function, Operation panel function, CNC data I/O function, Operator authentication (External authentication/fingerprint authentication) function, USB mouse/keyboard function, SoftGOT-GOT link function, Motion program (SV43) edit, VNC [®] server function	Barcode function, RGB display function, External I/O function, Backup/restore function, RFID function Remote personal computer operation, function, MELSEC-L troubleshooting function, Log viewer function, Motion program (SV43) I/O, Motion program (SV43) I/O,	
Option functions ^{*2}		Ladder monitor function ^{*4} , List editor for MELSEC-FX ^{*4} , Network monitor function, Servo amplifier monitor function, Gateway function, SFC monitor function, Motion SFC monitor function	List editor for MELSEC-A ^{*4} , Intelligent module monitor function, Q motion monitor function, CNC monitor function, MES interface function, Ladder editor function,	
Others		FA transparent functions, RGB output function	Human sensor 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.

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

[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, Debug & self check, Screen clean up	Time setting & display, Program/data control*4,
Extension function*2	System monitor function, Backup/restore function, Operator authentication (External authentication) function	Barcode function, RFID function,
Option functions*2	List editor for MELSEC-A*3, Gateway function	List editor for MELSEC-FX*3,
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.

■ 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, Time setting & display, Program/data control, Debug & self check, Screen clean up
Extension function* ²	System monitor function, Barcode function, RFID 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.

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

1

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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 the 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.

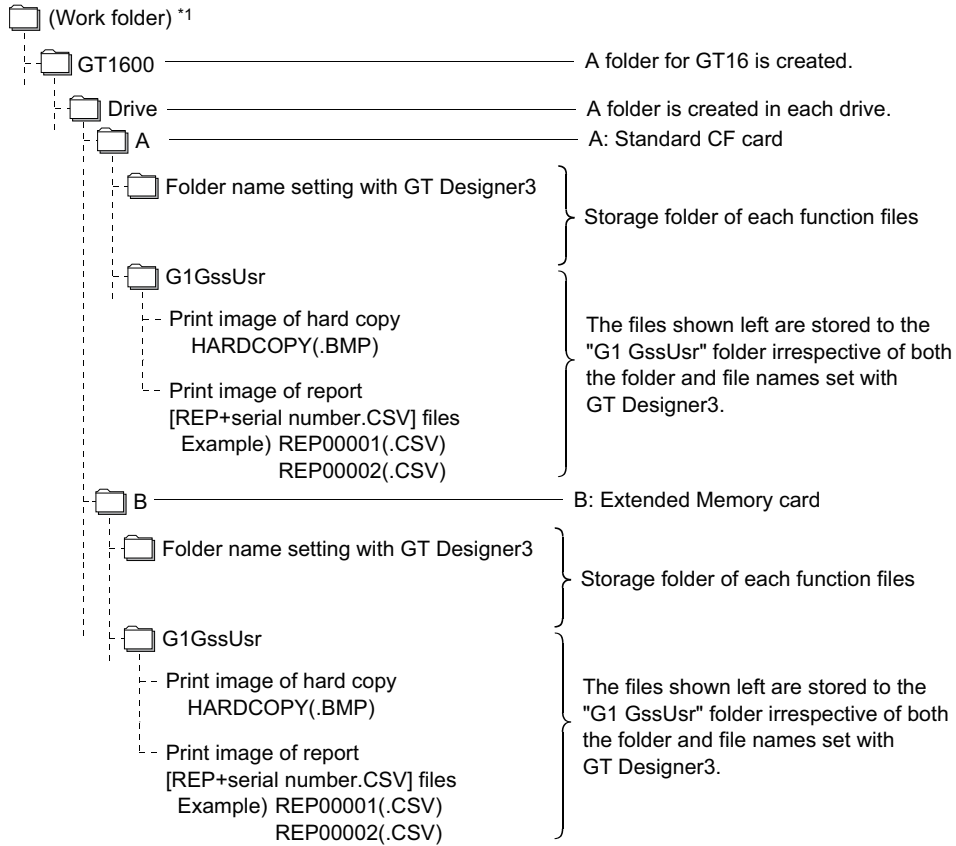
 GT Designer3 Version1 Screen Design Manual (Fundamentals)

(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.

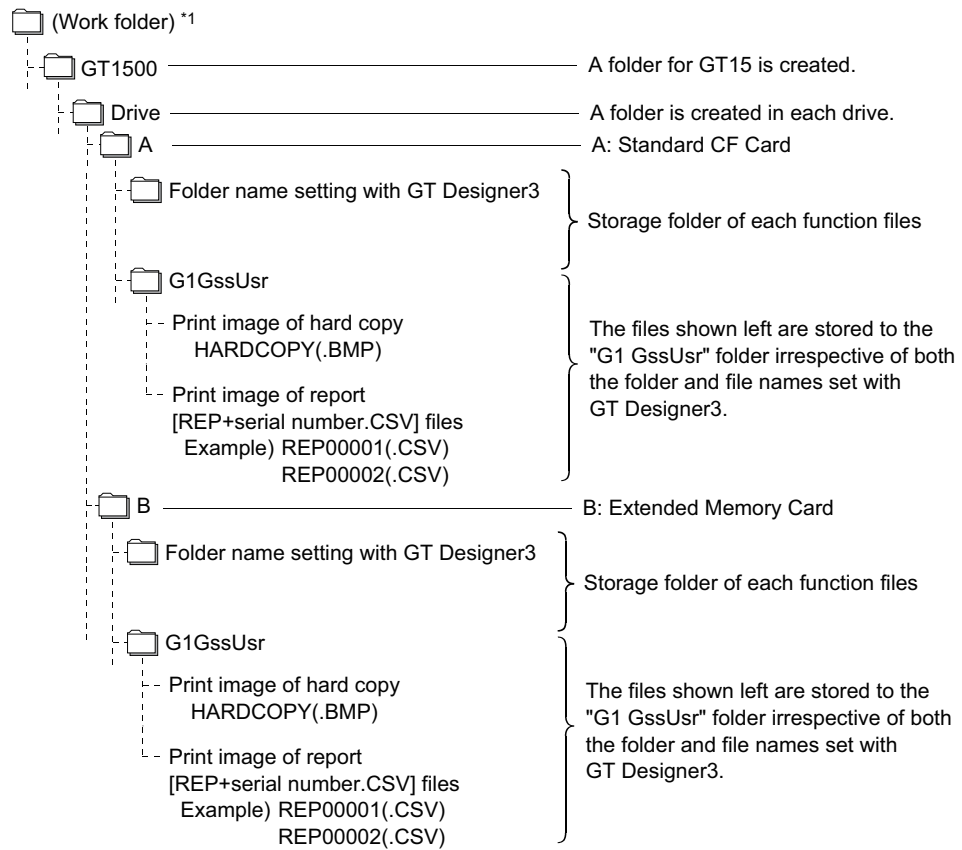
(a) For GOT1000 series (GT16) simulator



*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 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
- Windows 2000: Document and Settings\ (User name) \Local Settings\Application Data\MITSUBISHI\GSS3

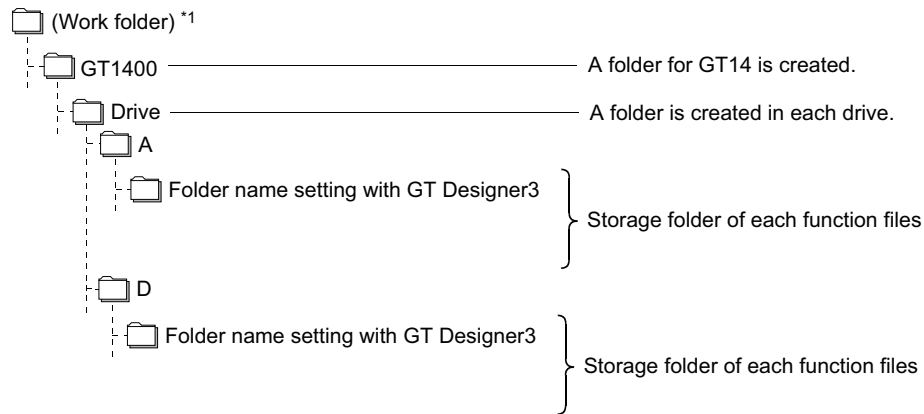
(b) For GOT1000 series (GT15) simulator



*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.

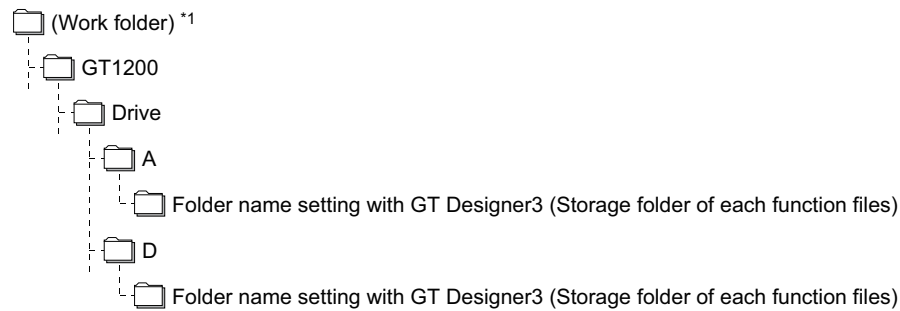
- Windows 7: Users\User name\AppData\Local\MITSUBISHI\GSS3
- Windows Vista: Users\User name\AppData\Local\MITSUBISHI\GSS3
- Windows XP: Document and Settings\User name\Local Settings\Application Data\MITSUBISHI\GSS3
- Windows 2000: Document and Settings\User name\Local Settings\Application Data\MITSUBISHI\GSS3

(c) For GOT1000 series (GT14) simulator



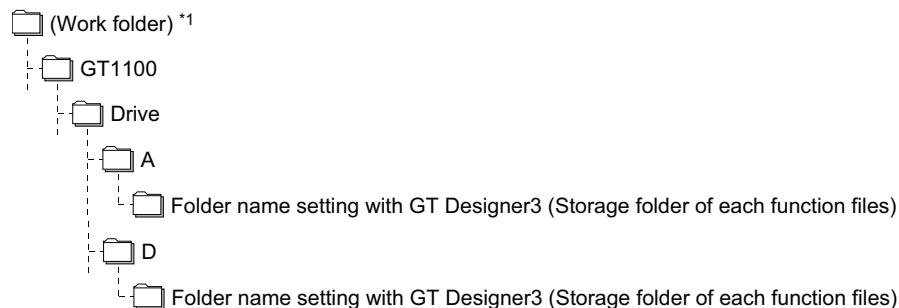
- *1 The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed. The following shows the work folder of each OS.
- Windows 7: Users\ (User name)\AppData\Local\MITSUBISHI\GSS3
 - Windows Vista: Users\ (User name)\AppData\Local\MITSUBISHI\GSS3
 - Windows XP: Document and Settings\ (User name)\Local Settings\Application Data\MITSUBISHI\GSS3
 - Windows 2000: Document and Settings\ (User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(d) For GOT1000 series (GT12) simulator



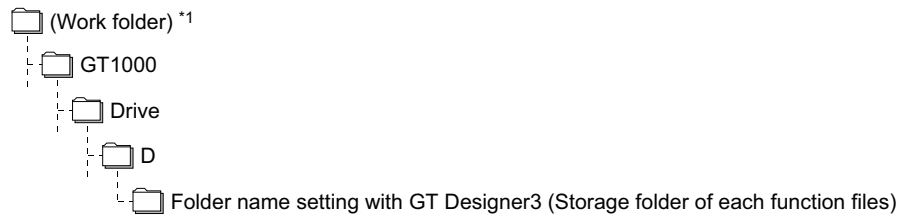
- *1 The work folder varies according to the OS of the personal computer in which GT Simulator3 is installed. The following shows the work folder of each OS.
- Windows 7: Users\ (User name)\AppData\Local\MITSUBISHI\GSS3
 - Windows Vista: Users\ (User name)\AppData\Local\MITSUBISHI\GSS3
 - Windows XP: Document and Settings\ (User name)\Local Settings\Application Data\MITSUBISHI\GSS3
 - Windows 2000: Document and Settings\ (User name)\Local Settings\Application Data\MITSUBISHI\GSS3

(e) For GOT1000 series (GT11) simulator



- *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 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
 - Windows 2000: Document and Settings\ (User name)\Local Settings\Application Data\MITSUBISHI\GSS3

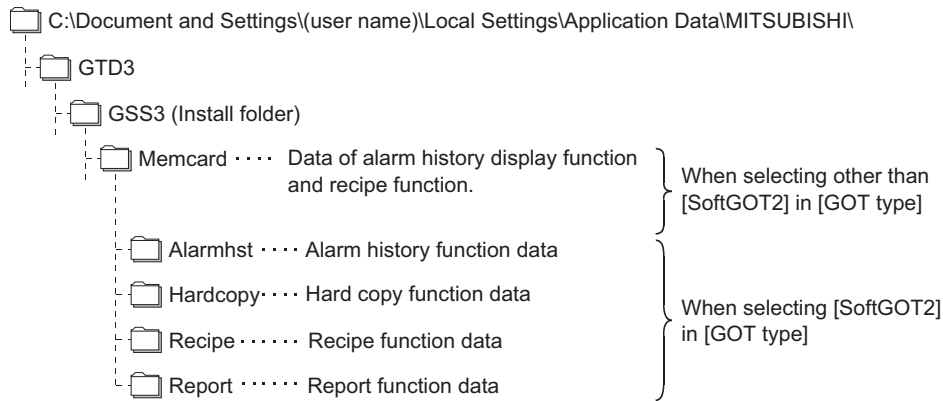
(f) For GOT1000 series (GT10) simulator



- *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 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
 - Windows 2000: Document and Settings\ (User name) \Local Settings\Application Data\MITSUBISHI\GSS3

(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].



(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



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

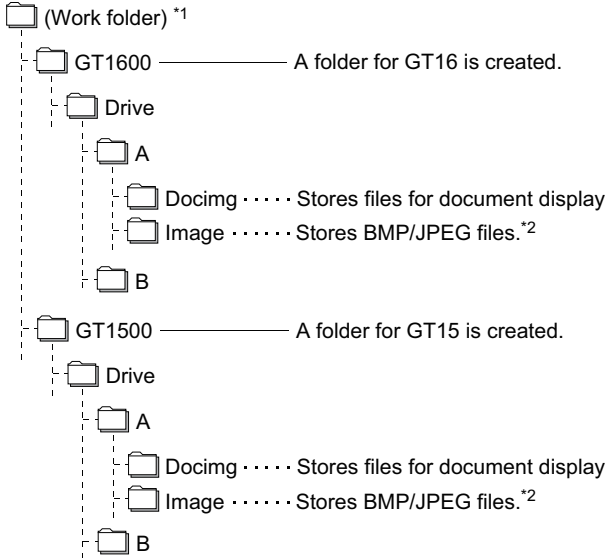
When registering BMP/JPEG files for parts or data for document display, store them in the hard disk of the personal computer.

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



*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 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
- Windows 2000: 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 hard 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



(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.

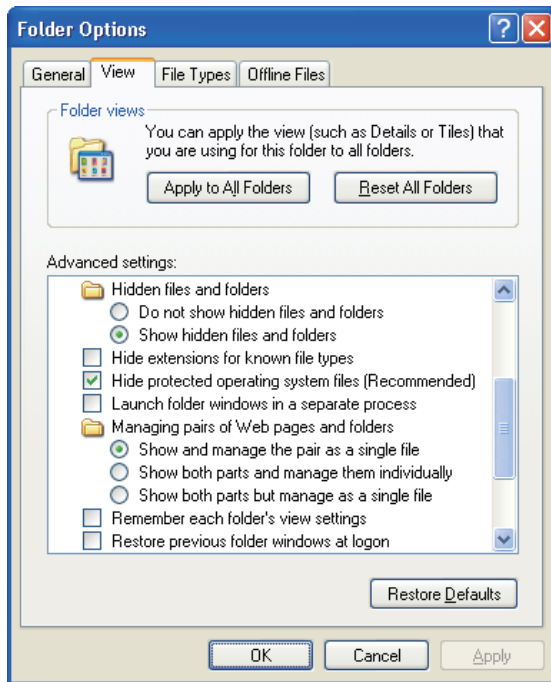
 GT Designer3 Version1 Screen Design Manual (Fundamentals)

(16) Hidden folders display

The [Document and Settings\ (User name)\ Local Settings] folder (Windows XP, Windows 2000) and the [Users\ (User name)\ AppData\ Local] folder (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.

3.3.2 Precautions for connecting to GX Simulator or GX Simulator2

(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 GX Simulator has been started from GX Developer or GX Works2 has been started from GX Simulator2

(a) When GX Simulator has been started from GX Developer or GX Works2 has been started from GX Simulator2
GX Simulator2 uses the GX Simulator started from GX Developer.

(b) When exiting GX Simulator or GX Simulator2
Not that if you exit from GX Developer and GX Simulator first, GT Simulator2 will result in a communication error.

(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 ACPUCPU (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].

POINT

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 the 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 Connecting to GX Simulator or GX Simulator2

POINT

(1) Devices unsupported by GX Simulator or GX Simulator2

The devices unsupported by GX Simulator or GX Simulator2 cannot be simulated.


Refer to the following manual for the device ranges supported by GX Simulator or GX Simulator2.

 GX Simulator Version□ Operating Manual

GX Works2 Version□ 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

■ 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
	Word device bit	Specified bits of the following word devices (Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)	Specified bits of the following word devices (Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)
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)

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)	AR000000 to AR147115 AR1000000 to AR1153515	-
	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	TIM0000 to TIM0255
	Counter contact (CNT)	CNT0000 to CNT4095	CNT0000 to CNT0255
	Word device bit	Specified bits of the following word devices (Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)	Specified bits of the following word devices (Except for data link relay, auxiliary memory relay, holding relay and internal auxiliary relay.)
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)	AR0000 to AR11535 AR10000 to AR11535	-
	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	DM0000 to DM8191
	Timer (current value) (TIM)	TIM0000 to TIM4095	TIM0000 to TIM0255
	Counter (current value) (CNT)	CNT0000 to CNT4095	CNT0000 to CNT0255
	Extended data memory (EM current bank)	EM00000 to EM32767	-
	Extended data memory (EM banks 0 to 13)	E000000 to E032767 . . EC1800000 to EC1832767	-

*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)

■ 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)	CR00000 to CR3915	CR00000 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	-
Word device bit	Specified bits of the following word devices (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, Temporary data memory, Index register, Digital trimmer.)	Specified bits of the following word devices (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, Temporary data memory, Index register, Digital trimmer.)	
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)	CR00000 to CR3900	CR00000 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)

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■ 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

■ SHARP PLC (SHARP JW)

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	..00000 to ..15777 ..20000 to ..75777	..00000 to ..15777	
	Timer (contact) (T)	T0000 to T1777	T0000 to T0377	
	Counter (contact) (C)	C0000 to C1777	C0000 to C0377	
	Word device bit	Specified bits of the following word devices	Specified bits of the following word devices	
Word device	Timer (current value) (T)	T0000 to T1777	T0000 to T0377	
	Counter (current value) (C)	C0000 to C1777	C0000 to C0377	
	Register (09 to E7)		09000 to 09776	09000 to 09776
			19000 to 19776	19000 to 19776
			29000 to 29776	29000 to 29776
			39000 to 39776	39000 to 39776
			49000 to 49776	49000 to 49776
			59000 to 59776	59000 to 59776
			69000 to 69776	69000 to 69776
			79000 to 79776	79000 to 79776
			89000 to 89776	89000 to 89776
			99000 to 99776	99000 to 99776
			E0000 to E0776	E0000 to E0776
			E1000 to E1776	E1000 to E1776
			E2000 to E2776	E2000 to E2776
			E3000 to E3776	E3000 to E3776
		E4000 to E4776	E4000 to E4776	
		E5000 to E5776	E5000 to E5776	
		E6000 to E6776	-	
		E7000 to E7776	E7450 to E7776	
File register (1 to 7)	1000000 to 1177776 2000000 to 2177776 3000000 to 3177776 4000000 to 4177776 5000000 to 5177776 6000000 to 6177776 7000000 to 7177776	-		
Bit device word	Conversion of the above bit devices to words (Except Timer and Counter)	Conversion of the above bit devices to words (Except Timer and Counter)		

*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

■ JTEKT PLC (JTEKT TOYOPUC-PC)

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 (X)	X000 to X7FF	X000 to X7FF
	Output (Y)	Y000 to Y7FF	Y000 to Y7FF
	Link relay (L)	L000 to L7FF	L000 to L7FF
	Internal relay (M)	M000 to M7FF	M000 to M7FF
	Keep relay (K)	K000 to K2FF	-
	Edge detection (P)	P000 to P1FF	-
	Timer (T)	T000 to T1FF	T000 to T1FF
	Counter (C)	C000 to C1FF	C000 to C1FF
	Special relay (V)	V000 to V0FF	-
	Extended input (EX)	EX000 to EX7FF	-
	Extended output (EY)	EY000 to EY7FF	-
	Extended internal relay (EM)	EM0000 to EM1FFF	-
	Extended keep-relay (EK)	EK000 to EKFFF	-
	Extended special relay (EV)	EV000 to EVFFF	-
	Extended timer (ET)	ET000 to ET7FF	-
	Extended counter (EC)	EC000 to EC7FF	-
	Extended link relay (EL)	EL0000 to EL1FFF	-
	Extended edge detection (EP)	EP000 to EPFFF	-
	Extended input 2 (GX)	GX0000 to GXFFFF	-
	Extended output 2 (GY)	GY0000 to GYFFFF	-
Extended internal relay (GM)	GM0000 to GMFFFF	-	
Word device bit	Specified bits of the following word devices (Except EB and TCS)	Specified bits of the following word devices (Except EB and TCS)	
Word device	Data register (D)	D0000 to D2FFF	D0000 to D2FFF
	Link register (R)	R0000 to R07FF	R0000 to R07FF
	Setup value register (N)	N0000 to N01FF	N0000 to N01FF
	Special register (S)	S0000 to S03FF	-
	File register (B)	B0000 to B1FFF	B0000 to B1FFF
	Extended present value register (EN)	EN0000 to EN07FF	-
	Extended setup value register (H)	H0000 to H07FF	-
	Extended special register (ES)	ES0000 to ES07FF	-
	Extended data register (U)	U0000 to U7FFF	-
	Extended buffer register (EB)	EB00000 to EB07FFF EB08000 to EB0FFFF EB10000 to EB17FFF EB18000 to EB1FFFF	-
	Setup value register (TCS)	TCS0000 to TCS01FF	-
	Bit device word	Conversion of the above bit devices to words	Conversion of the above bit devices to words

*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)

■ TOSHIBA PLC (TOSHIBA PROSEC T,V 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)	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
	Word device bit	Specified bits of the following word devices (Only for data register, link register and file register)	Specified bits of the following word devices (Only for data register, link register and file register)
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

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6	FUNCTIONS OF GT SIMULATOR3
7	DEVICE MONITOR
8	TROUBLE SHOOTING

■ 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

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	-
	Word device bit	Specified bits of the following word devices (Only for timer/counter and word internal output)	Specified bits of the following word devices (Only for timer/counter and word internal output)
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)


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	External input (X)	X000 to XFFF	X000 to XFFF
	External output (Y)	Y000 to YFFF	Y000 to YFFF
	Internal register (R)	R000 to RFFF	R000 to RFFF
	Keep relay (K)	K000 to KFFF	K000 to KFFF
	Extended internal register (M)	M000 to MFFF	M000 to MFFF
	Extended internal register (A)	A000 to AFFF	-
	On-delay timer (T)	T000 to T1FF	T000 to T1FF
	One-shot timer (U)	U000 to U0FF	-
	Up-down counter (C)	C00 to CFF	C00 to CFF
	Global link register (G)	G000 to GFFF	G000 to GFFF
	Event register (E)	E000 to EFFF	E000 to EFFF
	System register (S)	S000 to SBFF	S000 to S0FF
	Transfer register (J)	J000 to JFFF	-
	Receive register (Q)	Q000 to QFFF	-
Word device bit	Specified bit of the following 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.)	Specified bit of the following 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.)	

(Continued to next page)

Device name	Monitor applicable range for GOT *1	Available range for simulating with GT Simulator3 (The operable range on GX Simulator or GX Simulator2)
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	-

Word device

*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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■ FUJI FA PLC (Fuji Electric FA Components & Systems MICREX-F series)

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
	Word device bit	Specified bits of the following word device (except I/O relay, Auxiliary relay, Keep relay, Special relay, Annunciator relay, Differential relay, Link memory, Data memory, Timer, Counter.)	Specified bits of the following word device (except I/O relay, Auxiliary relay, Keep relay, Special relay, Annunciator relay, Differential relay, Link memory, Data memory, Timer, Counter.)
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)	W30: 0000 to W30: 4095	-
	User file (W31)	W31: 0000 to W31: 4095	
	•	•	
	User file (W108)	W108: 0000 to W108: 4095	-
	User file (W109)	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)

■ PANASONIC 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
Word device bit	Specified bits of the following word devices (Except for input relay, output relay, internal relay, special relay and link relay)	Specified bits of the following word devices (Except for input relay, output relay, internal relay, special relay and link relay)	
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

■ 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	-
	Word device bit	Specified bits of the following word devices	Specified bits of the following word devices
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
Bit device word	Conversion of the above bit devices to words (Except coil and input relay)	Conversion of the above bit devices to words (Except coil and input relay)	

*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
	Word device bit	Specified bits of the following word devices (Except for coil and input relay)	Specified bits of the following word devices (Except for coil and input relay)
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

(3) YASKAWA CP-9200 (H)

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 (OB)	OB000 to OB7FF	OB000 to OB7FF
	Input relay (IB)	IB000 to IB7FF	IB000 to IB7FF
	Word device bit	Specified bits of the following word devices	Specified bits of the following word devices
Word device	Input register (IW)	IW00 to IW7F	-
	Output register (OW)	OW00 to OW7F	-
	Data register (DW, ZD)	DW0 to DW2047	-
		ZD0 to ZD2047	ZD0 to ZD6
	Common register (MW)	MW0 to MW7694	-
	Bit device word	Conversion of the above bit devices to words	Conversion of the above bit devices to words

*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)

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 (OB)	OB0 to OB1023	OB0 to OB1023
	Input relay (IB)	IB0 to IB1023	IB0 to IB1023
	Word device bit	Specified bits of the following word devices	Specified bits of the following word devices
Word device	Input register (I)	I0 to I63	-
	Data register (M)	M0 to M2047	-
	Output register (O)	o0 to o63	-
	Bit device word	Conversion of the above bit devices to words	Conversion of the above bit devices to words

*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
	Word device bit	Specified bits of the following word devices (Except for timer (TP, TS) and counter (CP, CS))	Specified bits of the following word devices (Except for timer (TP, TS) and counter (CP, CS))
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
	Bit device word	Conversion of the above bit devices to words (Except for timer (TU) and counter (CU))	Conversion of the above bit devices to words (Except for timer (TU) and counter (CU))

*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)

(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
	Word device bit	Specified bits of the following word devices (Except TP, TS, CP, and CS)	Specified bits of the following word devices (Except TP, TS, CP, and CS)
	Word device	Timer (TP)	TP1 to TP3072
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	-
Bit device word		Conversion of the above bit devices to words (Except TU and CU)	Conversion of the above bit devices to words (Except TU and CU)

*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)

1 OVERVIEW
 2 SYSTEM CONFIGURATION
 3 SPECIFICATIONS
 4 SCREEN CONFIGURATION OF GT SIMULATOR3
 5 GT SIMULATOR3 OPERATING METHOD
 6 FUNCTIONS OF GT SIMULATOR3
 7 DEVICE MONITOR
 8 TROUBLE SHOOTING

■ ALLEN-BRADLEY PLC

(1) AB SLC500

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	Bit (B)	B3:0/0 to B3:255/15 B10:0/0 to B255:255/15	-
	Timer (timing bit) (T)	T4:0/14 (TT) to T4:255/14 (TT) T10:0/14 (TT) to T255:255/14 (TT)	-
	Timer (completion bit) (T)	T4:0/13 (DN) to T4:255/13 (DN) T10:0/13 (DN) to T255:255/13 (DN)	-
	Counter (up counter) (C)	C5:0/15 (CU) to C5:255/15 (CU) C10:0/15 (CU) to C255:255/15 (CU)	-
	Counter (down counter) (C)	C5:0/14 (CD) to C5:255/14 (CD) C10:0/14 (CD) to C255:255/14 (CD)	-
	Counter (completion bit) (C)	C5:0/13 (DN) to C5:255/13 (DN) C10:0/13 (DN) to C255:255/13 (DN)	-
	Integer (N)	N7:0 to N7:255 N10:0 to N255:255	-
Word device	Bit (B)	B3:0 to B3:255 B10:0 to B255:255	-
	Timer (set value) (T)	T4:0.1 (PRE) to T4:255.1 (PRE) T10:0.1 (PRE) to T255:255.1 (PRE)	-
	Timer (current value) (T)	T4:0.2 (ACC) to T4:255.2 (ACC) T10:0.2 (ACC) to T255:255.2 (ACC)	-
	Counter (set value) (C)	C5:0.1 (PRE) to C5:255.1 (PRE) C10:0.1 (PRE) to C255:255.1 (PRE)	-
	Counter (current value) (C)	C5:0.2 (ACC) to C5:255.2 (ACC) C10:0.2 (ACC) to C255:255.2 (ACC)	-
	Integer (N)	N7:0 to N7:255 N10:0 to N255:255	-

*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

(2) AB MicroLogix1000/1200/1500 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	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	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	-

*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)

■ 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
	Word device bit	Specified bits of the following word devices (Only for data register)	Specified bits of the following word devices (Only for data register)
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

(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

1

OVERVIEW

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SYSTEM CONFIGURATION

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SCREEN CONFIGURATION OF GT SIMULATOR3

5

GT SIMULATOR3 OPERATING METHOD

6

FUNCTIONS OF GT SIMULATOR3

7

DEVICE MONITOR

8

TROUBLE SHOOTING

■ GE FANUC PLC (GE Fanuc Automation 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

■ 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
	Word device bit	Specified bit of the following word devices	Specified bit of the following word devices
Word device	Data (byte) (D)	D0 to D99	D0 to D99
	Data (word) (W)	W0 to W49	W0 to W49
	EFl input (byte) (EI)	EI110 to EI233	EI110 to EI133
	EFl 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



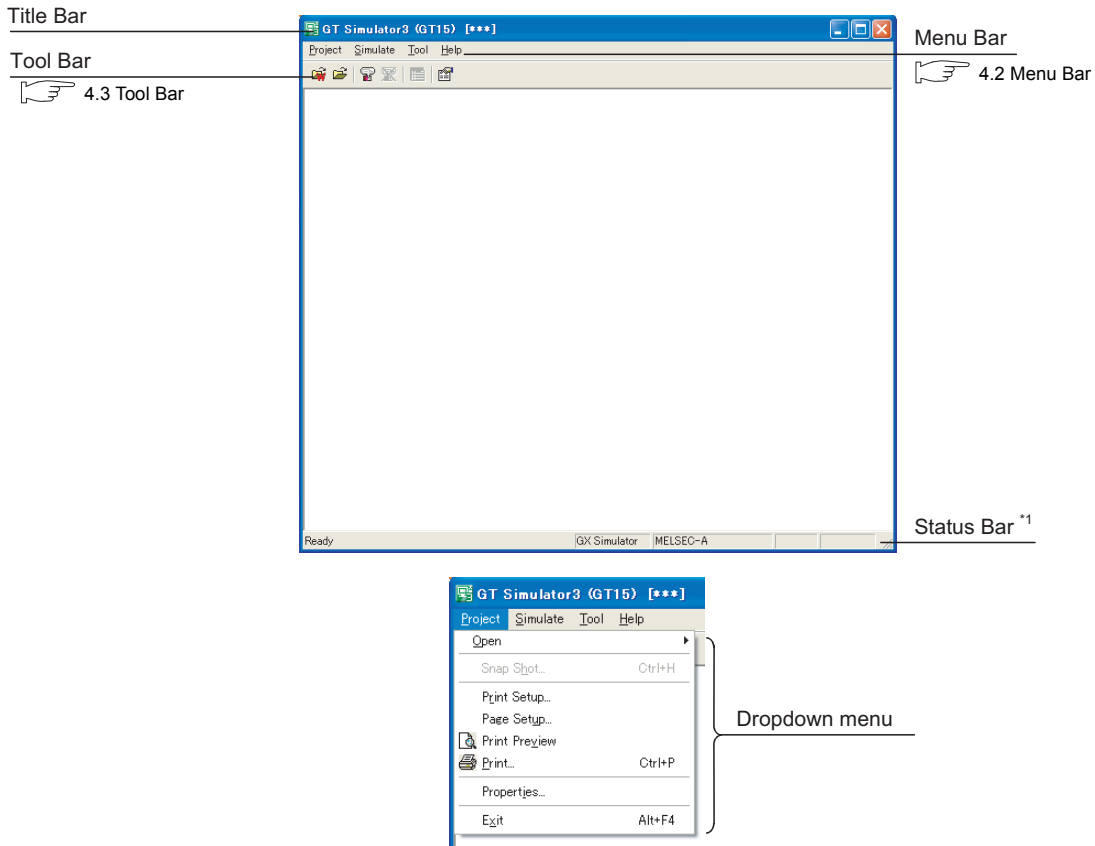
GT Designer2 Version□ Reference Manual

4. SCREEN CONFIGURATION OF GT SIMULATOR3

4.1 Screen Configuration and Basic Operation

4.1.1 Screen configuration

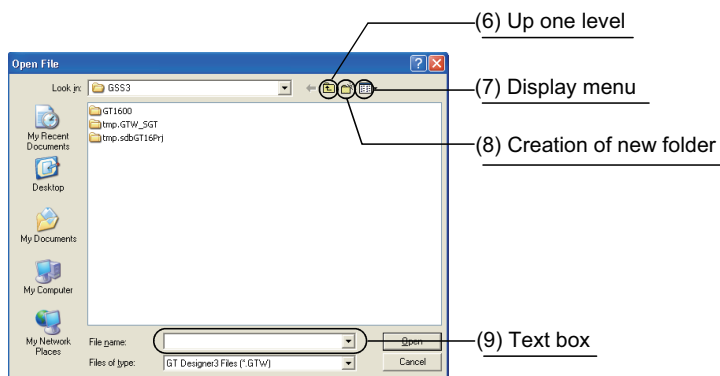
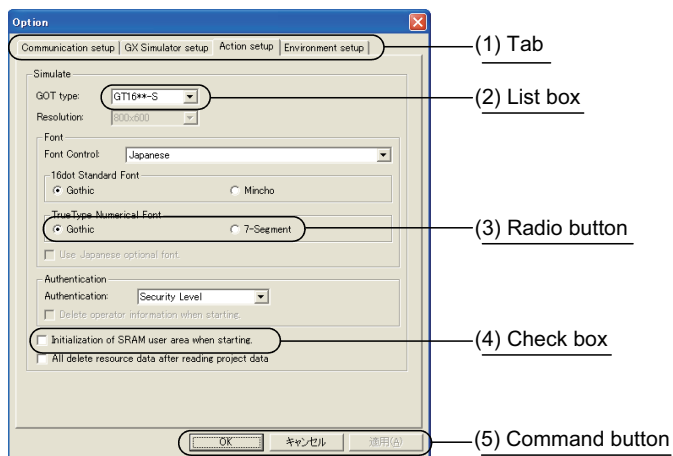
This section describes screen configuration.



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

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

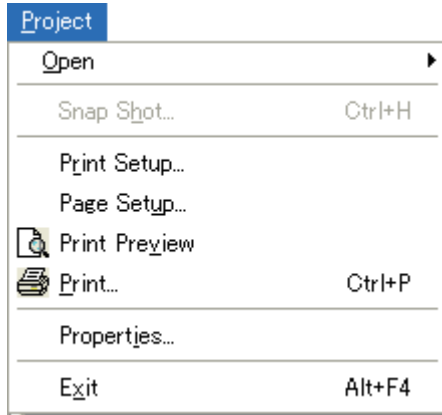
Enter a text from the keyboard.

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.

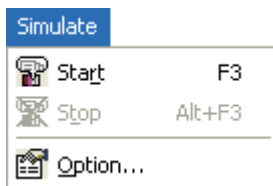
Project



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

- 5. GT SIMULATOR3 OPERATING METHOD
- 6. FUNCTIONS OF GT SIMULATOR3

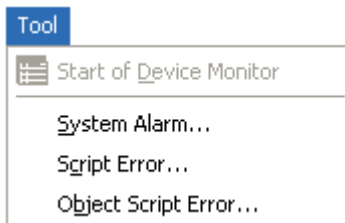
Simulate



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

- 5. GT SIMULATOR3 OPERATING METHOD

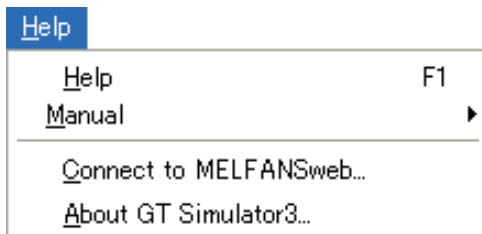
Tool



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





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.)

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.
Connect to MELFANSweb	Connects to the Mitsubishi Electric Factory Automation 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.

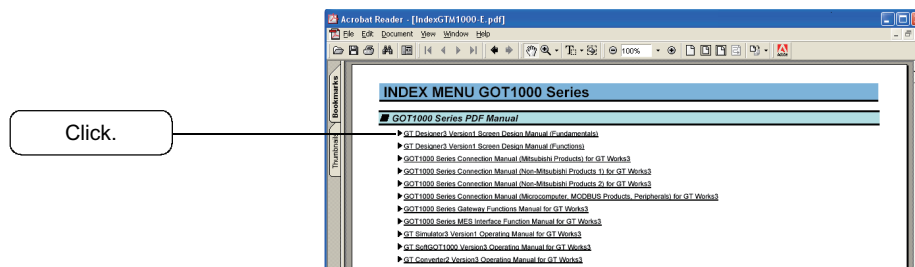
■ Displaying a PDF manual

POINT

Before viewing the PDF manual

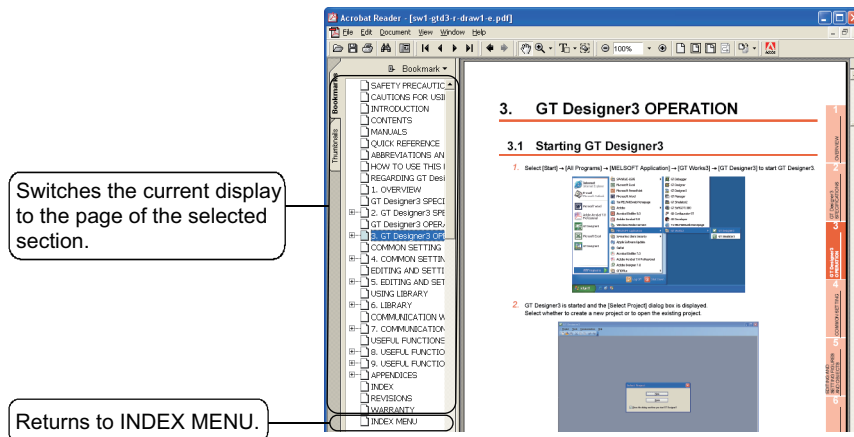
To view the PDF manual, GT Manual and Adobe® Reader® must be installed.

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



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

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



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

■ Confirming GT Simulator3 version

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



(Example: For Version 1.17T)

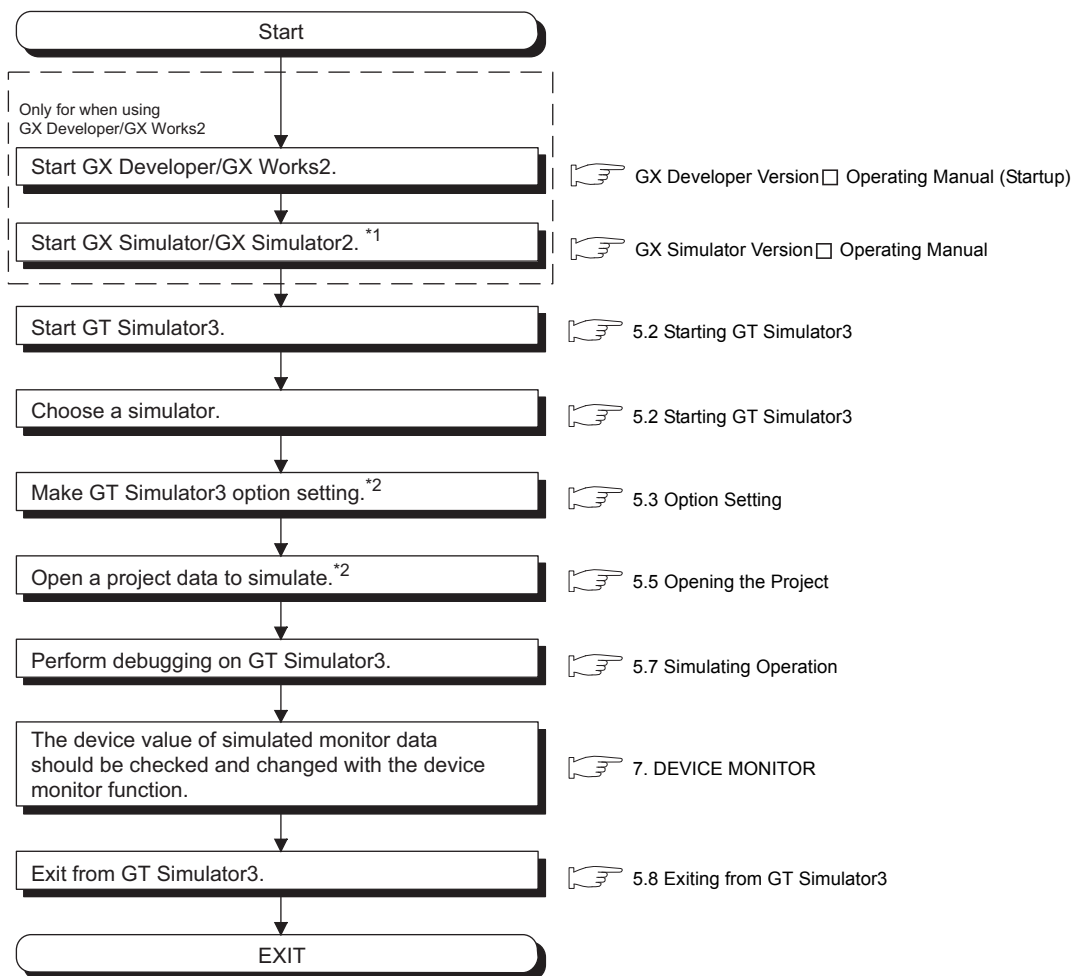
Item	Description
GT Simulator3	Displays GT Simulator3 version.
Name	Displays the name entered during GT Simulator3 installation.
Company	Displays the company name entered during GT Simulator3 installation.
Product ID	Displays the product ID entered during GT Simulator3 installation.
OK	Closes the About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

5. GT SIMULATOR3 OPERATING METHOD

5.1 Operating Procedure

The following describes the operating procedure of GT Simulator3.

■ When connecting GT Simulator2 and GX Simulator/GX Simulator2

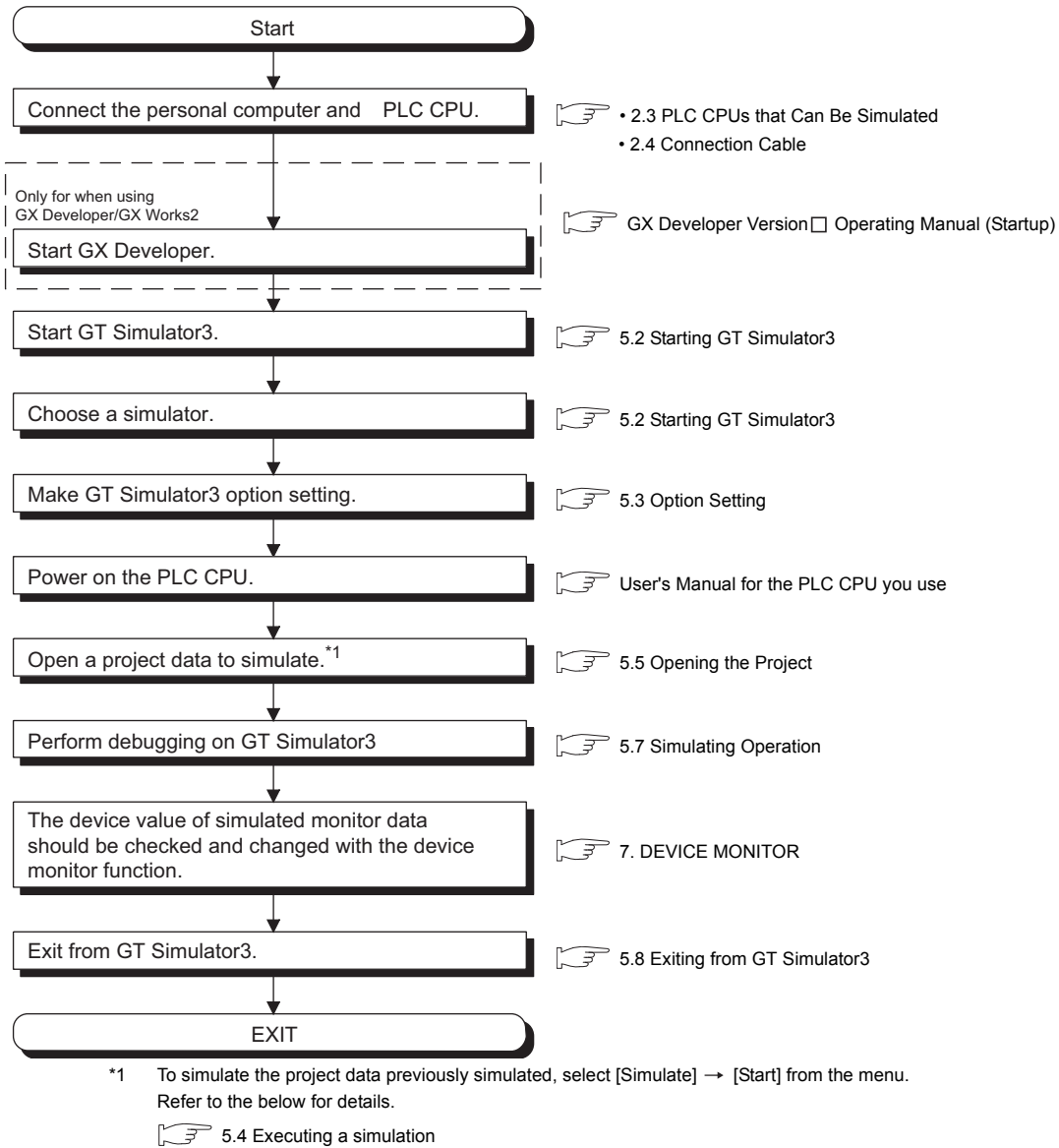


*1 In the case that GX Developer is not used, GX Simulator is automatically started when the simulation is executed on GT Simulator3.
GX Simulator2 doesn't start automatically when the simulation is executed with GT Simulator3. Please start it from GXWorks2 beforehand.

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

Hand icon pointing to the right: 5.4 Executing a simulation

■ When connecting GT Simulator3 and PLC CPU



POINT

About [Connection] of [Option]

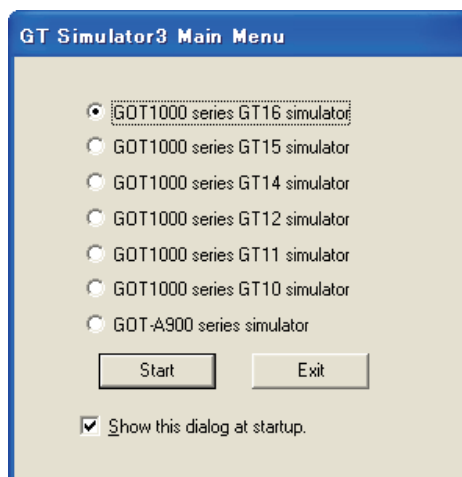
The setting of [Connection] is reset to [GX Simulator] (Default) after exiting GT Simulator3.

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.

1. Select [Start] → [Program] → [MELSOFT Application] → [GT Works3] → [GT Simulator3] of Microsoft® Windows®.
2. GT Simulator3 Main Menu dialog box is displayed. Set the following items and click the [Start] button.



Item	Description
GOT1000 series GT16 simulator	Select this item when starting [GOT1000 series GT16 simulator]. When simulating project data of GT16, select this item.
GOT1000 series GT15 simulator	Select this item when starting [GOT1000 series GT15 simulator]. When simulating project data of GT15, select this item.
GOT1000 series GT14 simulator	Select this item when starting [GOT1000 series GT14 simulator]. When simulating project data of GT14, select this item.
GOT1000 series GT12 simulator	Select this item when starting [GOT1000 series GT12 simulator]. When simulating project data of GT12, select this item.
GOT1000 series GT11 simulator	Select this item when starting [GOT1000 series GT11 simulator]. When simulating project data of GT11, select this item.
GOT1000 series GT10 simulator	Select this item when starting [GOT1000 series GT10 simulator]. When simulating project data of GT10, select this item.
GOT-A900 series 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.
	Starts GT Simulator3.
	Closes this dialog box without starting GT Simulator3.

3. 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 item, 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

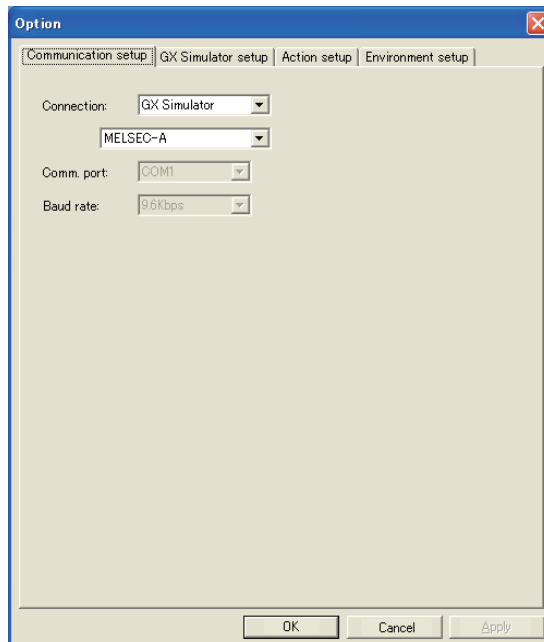
Setting [Option]

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.



Item	Description																																							
Connection	Selects a GT Simulator3 connection type. GX Simulator : Set when simulating with GX Simulator. GX Simulator2 : Set when simulating with GX Simulator2. CPU : Set when simulating with the PLC CPU connected by RS-232. USB : Set when simulating with the PLC CPU connected by USB.																																							
	Sets the CPU type used in GX Simulator/GX Simulator2 and the PLC CPU connected.																																							
	<table border="1"> <thead> <tr> <th>Connection</th> <th>CPU type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="5">GX Simulator</td> <td>MELSEC-A</td> <td>Set when use the following PLC CPU. • ACPU • Motion controller CPU (A series) • Third party PLC</td> </tr> <tr> <td>MELSEC-QnA</td> <td>Set when use QnACPU.</td> </tr> <tr> <td>MELSEC-Q</td> <td>Set when use QCPU (Q mode).</td> </tr> <tr> <td>MELSEC-Q(A-Mode)</td> <td>Set when use QCPU (A mode).</td> </tr> <tr> <td>MELSEC-FX</td> <td>Set when use FXCPU.</td> </tr> <tr> <td>GX Simulator2</td> <td>MELSEC</td> <td>Set when use the following PLC CPU. • QCPU (Q mode) • LCPU</td> </tr> <tr> <td rowspan="7">CPU</td> <td>MELSEC-A</td> <td>Set when use ACPU or motion controller CPU (A series).</td> </tr> <tr> <td>MELSEC-QnA</td> <td>Set when use QnACPU.</td> </tr> <tr> <td>MELSEC-Q</td> <td>Set when use QCPU (Q mode).</td> </tr> <tr> <td>MELSEC-Q(A-Mode)</td> <td>Set when use QCPU (A mode).</td> </tr> <tr> <td>MELSEC-L</td> <td>Set when using LCPU.</td> </tr> <tr> <td>MELSEC-FX</td> <td>Set when use FXCPU.</td> </tr> <tr> <td>MELDAS C6*</td> <td>Set when use MELDAS C6/C64.</td> </tr> <tr> <td>OMRON SYSMAC</td> <td>Set when use OMRON PLC.</td> </tr> <tr> <td rowspan="2">USB</td> <td>MELSEC-Q</td> <td>Set when use QCPU (Q mode).</td> </tr> <tr> <td>MELSEC-L</td> <td>Set when using LCPU.</td> </tr> </tbody> </table>	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	CPU	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-Q	Set when use QCPU (Q mode).	MELSEC-L	Set when using LCPU.
	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																																					
	CPU	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-Q	Set when use QCPU (Q mode).																																						
	MELSEC-L	Set when using LCPU.																																						
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]

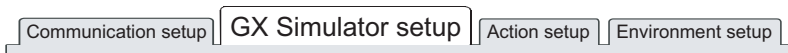
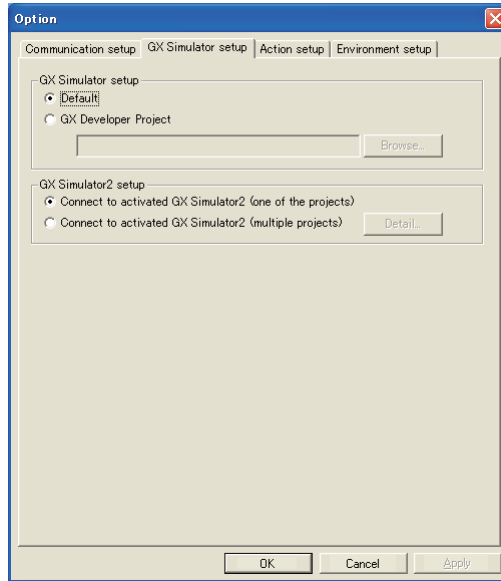
The setting of [Connection] is reset to [GX Simulator] (Default) after exiting GT Simulator3.

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.

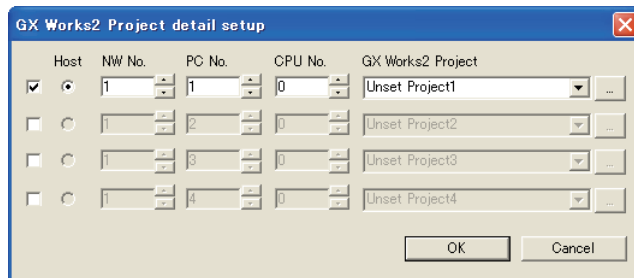
■ GX Simulator setup tab

Sets the programs used in GX Simulator and the connecting method to GX Simulator2.



Item	Description
GX Simulator setup	Set the sequence program to be used when simulating with GX Simulator. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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} .

*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.	Set the target CPU No., when configuring a multiple CPU system.
GX Works2 Project	Click the [...] button, and then select a GX Works2 project.

POINT

(1) Connection with GX Simulator2

Start GX Simulator2 in advance, when connecting to GX Simulator2.

(2) GX Developer Project

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

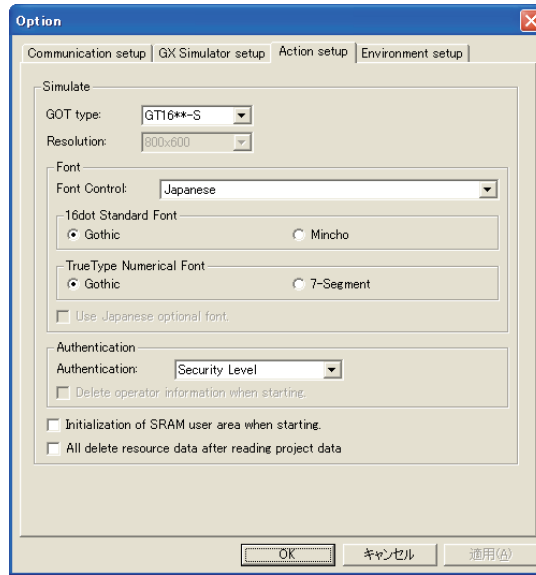
- Universal model QCPU: Q26UDHCPU
- QCPU: Q25HCPU
- QnACPU: Q4ACPU
- ACPU: A4UCPU
- FXCPU: FX2N(C) series

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.

■ Action setup tab

Sets GOT type, resolution, font and others.



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

(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 Simulator2 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. <ul style="list-style-type: none"> • 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\A,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 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
- Windows 2000: 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

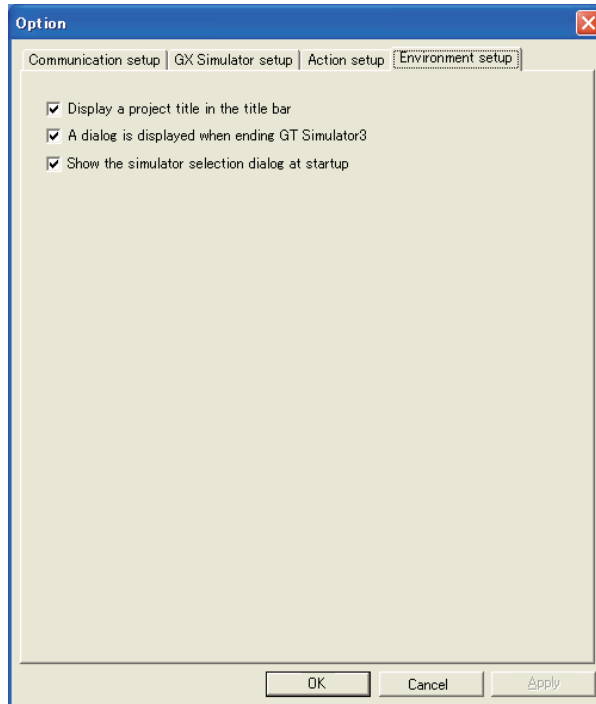
The changes on a recipe file (made by GT Designer3) will not be reflected (over written) if another recipe file of the same name already exists in the GT Simulator3.

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.

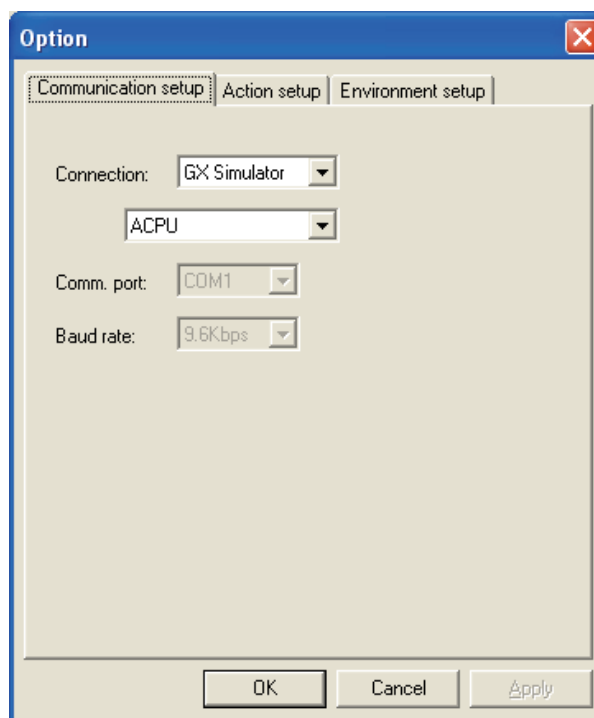


Item	Description
Display a project title in the title bar	Check this to display title of project data on the title bar.
A dialog is displayed when ending GT Simulator3	Check this to display the exit confirmation dialog box when exiting GT Simulator3.
Show the simulator selection dialog at startup	Check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

5.3.2 Setting items (GOT-A900 series simulator)

■ Communication setup tab

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



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.																									
	<table border="1"> <thead> <tr> <th>Connection</th> <th>CPU type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="5">GX Simulator</td> <td>ACPU</td> <td>Set when use the following PLC CPU. • ACPUCPU • Motion controller CPU (A series) • Third party PLC</td> </tr> <tr> <td>QnACPU, MELDAS C6*</td> <td>Set when use QnACPU or MELDAS C6/C64.</td> </tr> <tr> <td>QCPU</td> <td>Set when use QCPU (Q mode).</td> </tr> <tr> <td>QCPU-A</td> <td>Set when use QCPU (A mode).</td> </tr> <tr> <td>FX</td> <td>Set when use FXCPU.</td> </tr> <tr> <td rowspan="5">CPU</td> <td>ACPU</td> <td>Set when use ACPUCPU or motion controller CPU (A series).</td> </tr> <tr> <td>QnACPU, MELDAS C6*</td> <td>Set when use QnACPU or MELDAS C6/C64.</td> </tr> <tr> <td>QCPU</td> <td>Set when use QCPU (Q mode).</td> </tr> <tr> <td>QCPU-A</td> <td>Set when use QCPU (A mode).</td> </tr> <tr> <td>FX</td> <td>Set when use FXCPU.</td> </tr> </tbody> </table>	Connection	CPU type	Description	GX Simulator	ACPU	Set when use the following PLC CPU. • ACPUCPU • 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 ACPUCPU 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.
	Connection	CPU type	Description																							
	GX Simulator	ACPU	Set when use the following PLC CPU. • ACPUCPU • 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 ACPUCPU 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".

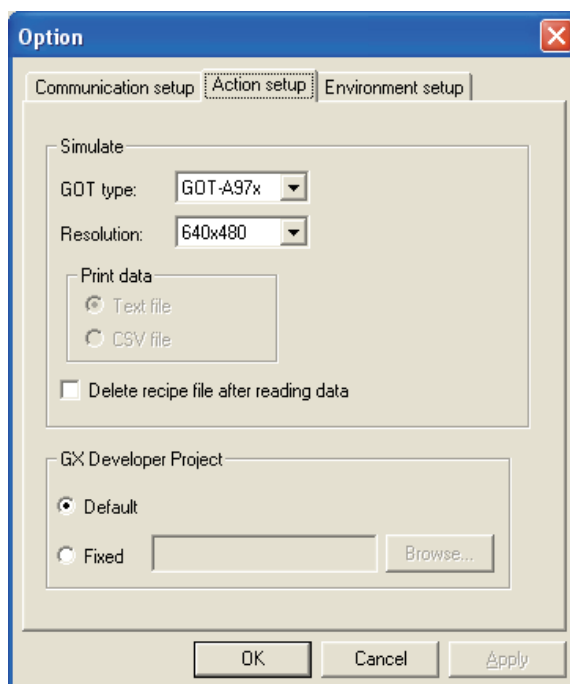
- For connecting to FXCPU.

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.

■ Action setup tab

Sets GOT type, resolution, print data and others.



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
- QnACPU : Q4ACPU
- ACPUCPU : 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.

(2) Recipe files

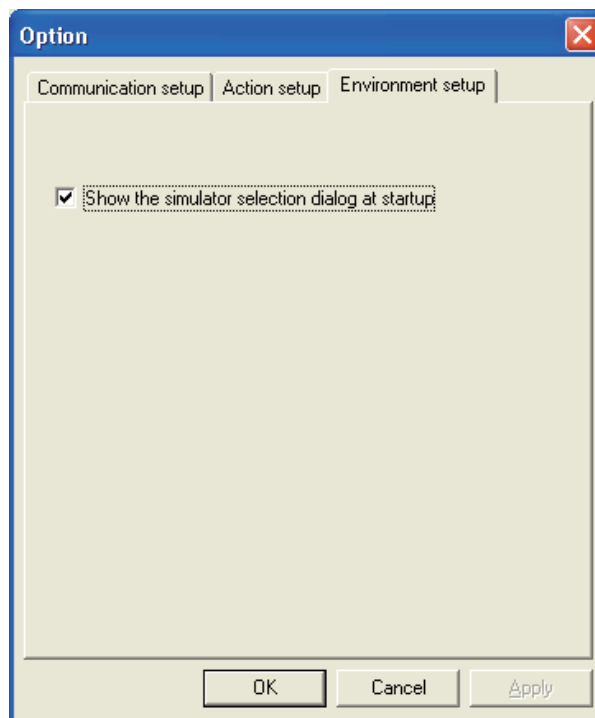
The changes on a recipe file (made by GT Designer2) will not be reflected (over written) if another recipe file of the same name already exists in the GT Simulator2.

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.




Communication setup | Action setup | Environment setup

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

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

- 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.

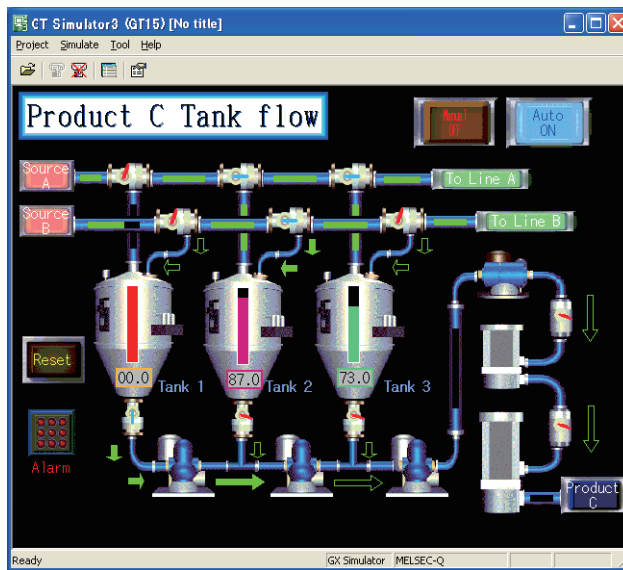


When connecting to GX Simulator




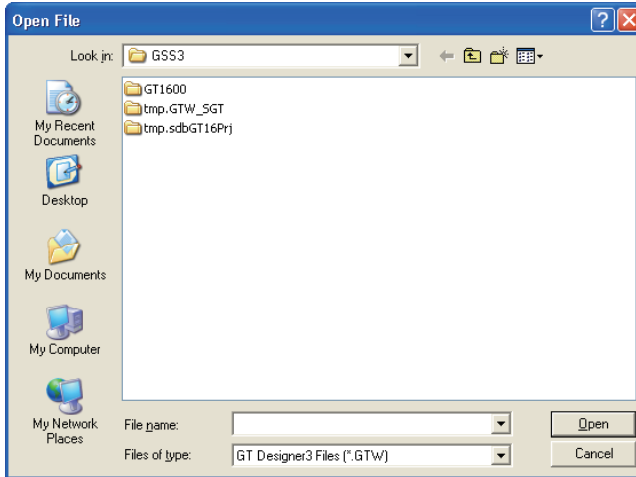
When connecting to CPU directly

- The simulation starts.



5.5.2 Open the GT Designer3 compressed file

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.

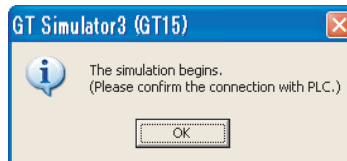


Item	Description
Look in	Selects the area where the project data is saved.
File name	Sets project data name for monitoring.
Files of type	Select the file format of the project data. GT Designer3 Files (*.GTW): GTW format

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.



When connecting to GX Simulator



When connecting to CPU directly

4. The simulation starts.



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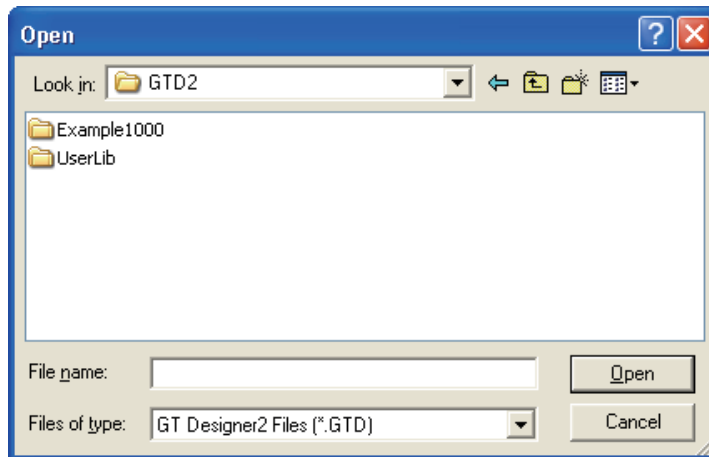
6 FUNCTIONS OF GT SIMULATOR3

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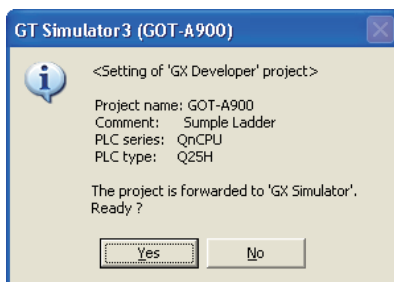
5.5.3 Open the GT Designer2 file

1. Perform either of the following operations.
 - Click  (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.



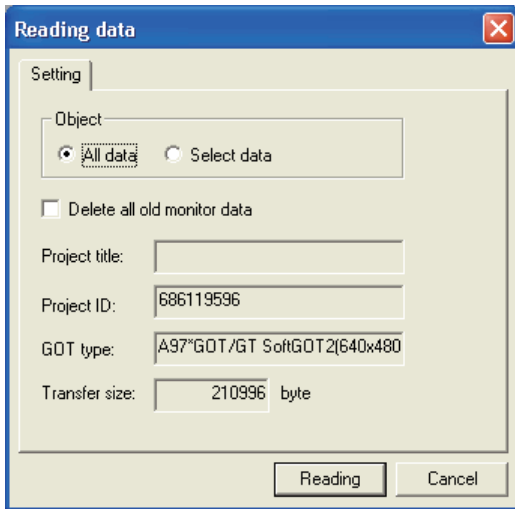
When connecting to GX Simulator



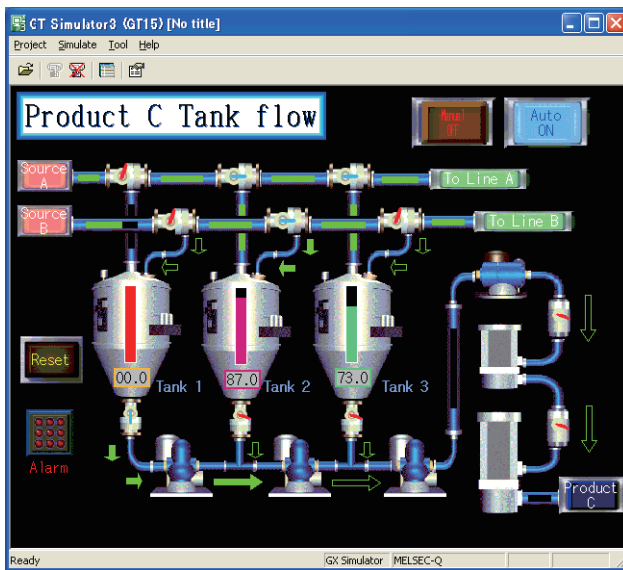
When connecting to CPU directly

- When using GOT-A900 series simulator, the [Reading data] dialog box is displayed. After setting each item, click the [Reading] button. Refer to the below for details.

5.6 Setting Reading Data (GOT-A900 Series Simulator)



- The simulation starts.



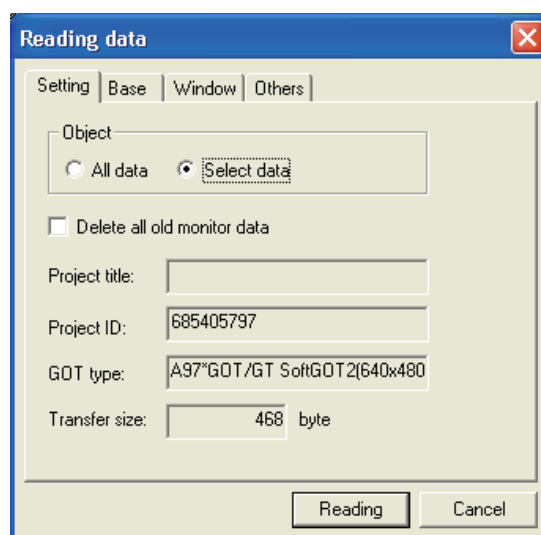
5.6 Setting Reading Data (GOT-A900 Series Simulator)



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

■ Setting tab

Monitor data to be read is set.

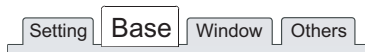
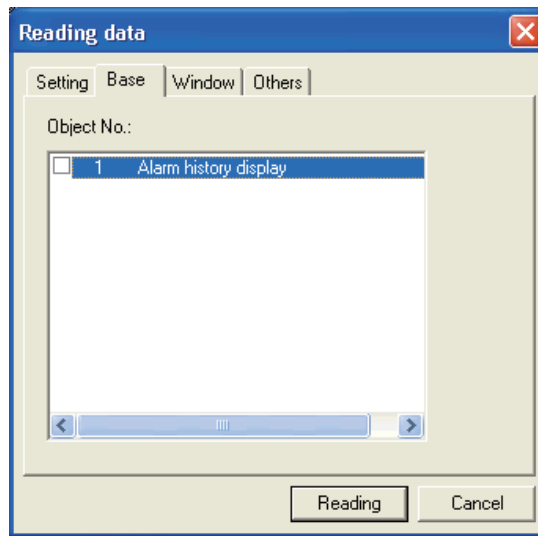



Item	Description
Object	Sets monitor data to be read. All data : Set when reading all data in monitor data. Select data : Set when reading a part of monitor data. Select data to be read on the Base, Window or Others tab.
Delete all old monitor data	Turn on the check box when reading the monitor data 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.
	Reads the monitor data and start the simulation.
	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.

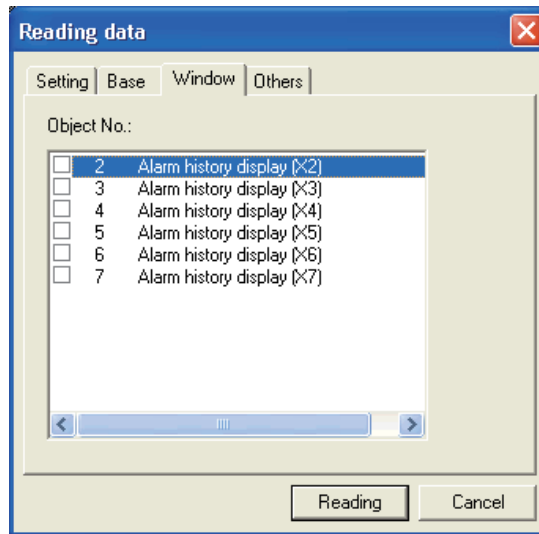




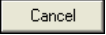
Item	Description
Object No.	The Screen No. and screen title of window screen are displayed. Check base screen to be read.
Reading	 ■Setting tab in this section)
Cancel	

■ Window tab

Sets window screen to be read.

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

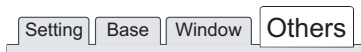
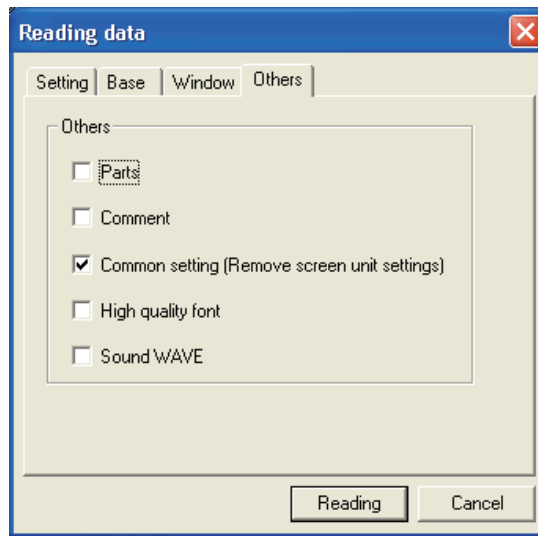



Item	Description
Object No.	The screen No. and screen title of window screen are displayed. Check window screen to be read.
	 ■Setting tab in this section)
	

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.

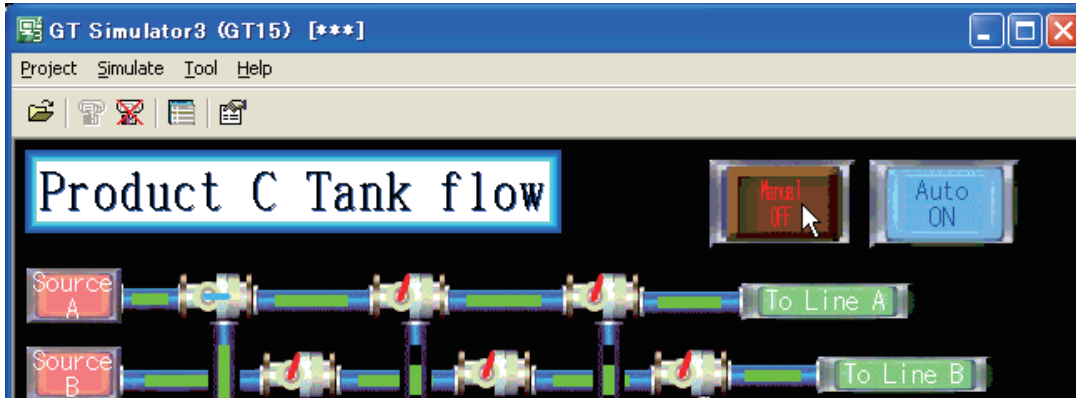


Item	Description
Others	<p>Checks item to be read.</p> <p>The Common setting is always read. ([Common setting (Remove screen unit settings)]) cannot be unchecked.)</p> <p>Parts : Checked when reading Parts data.</p> <p>Comment : Checked when reading Comment data.</p> <p>High quality font : Checked when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

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.

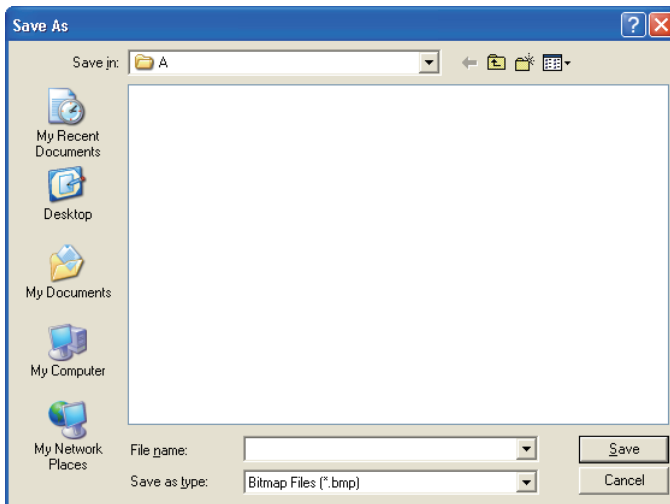
1. When using the Device Monitor, exit it.
☞ 7.4 Device Monitor Operation Method
2. Perform either of the following operations.
 - Click  (Close).
 - Select [Project] → [Exit] from the menu.
 - Select [Simulate] → [Exit] from the menu.
 - Click the  on the tool bar.
 - Right-click the mouse and select [Exit]
3. GT Simulator3 is exited.

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.



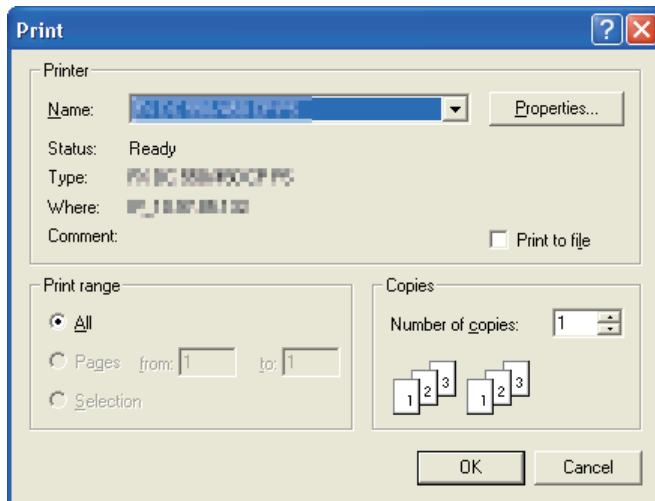
Item	Description
Save in	Selects the area where the file is saved.
File name	Selects the file name to be saved.
Save as type	<ul style="list-style-type: none">• GOT1000 Series simulator Saves into BMP(*.bmp) or JPEG (*.jpg) format file.• GOT-A900 Series simulator Saves into BMP(*.bmp) format file.

6.2 Print

The screen image being simulated is printed to a printer.

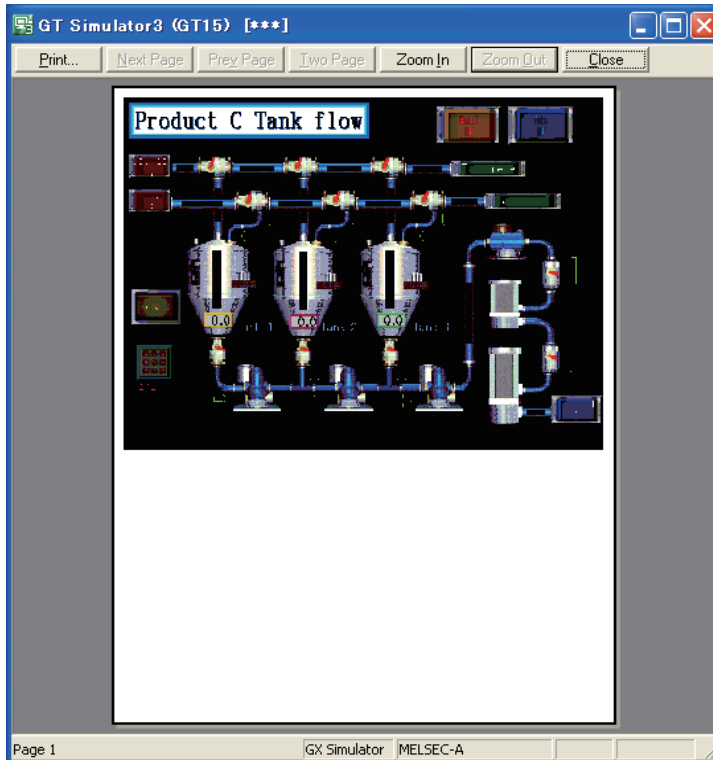
6.2.1 Printing

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.



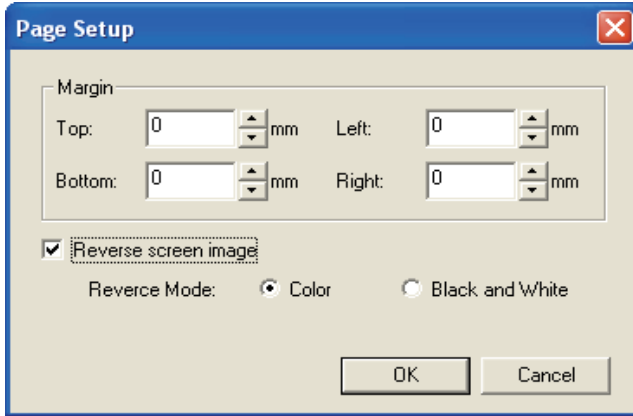
6.2.2 Performing print preview

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



6.2.3 Performing page setup

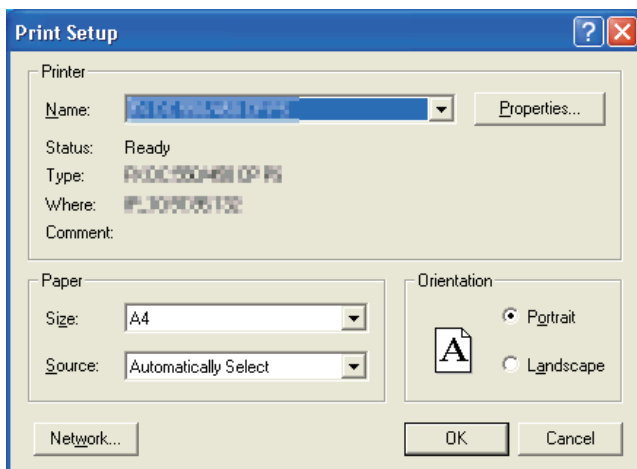
1. Perform the following operation.
 - Select [Project] → [Page Setup] from the menu.
2. [Page Setup] dialog box is displayed.
Set the following items and click the [OK] button.



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. <ul style="list-style-type: none"> • 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.

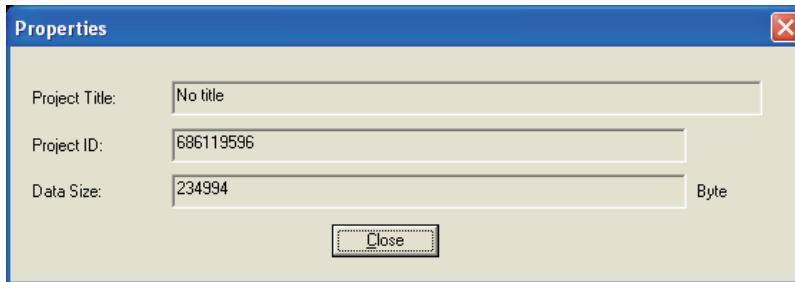


6.3 Property



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.



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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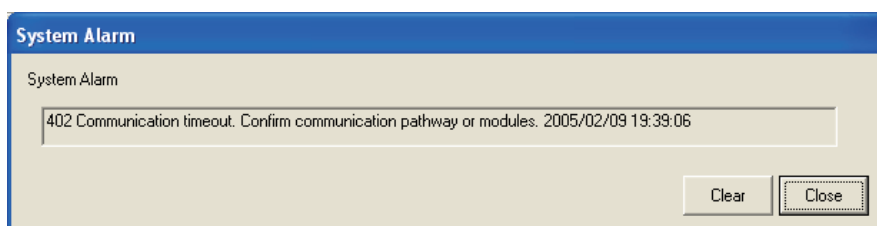
6.4 System Alarm




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.
	Displayed error message is cleared. However, it is redisplayed when the error keeps occurring.

*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.

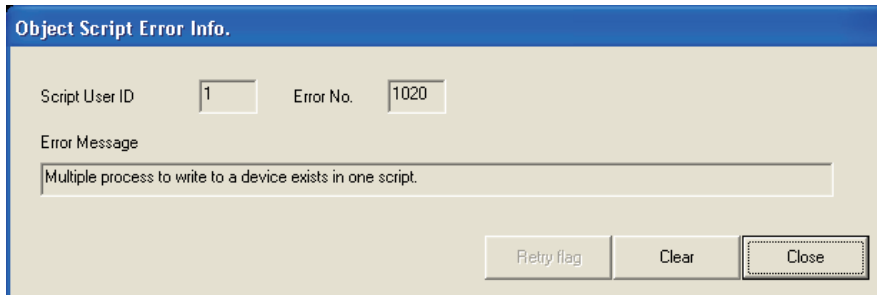
- Only the error detected by GOT is displayed on the system alarm dialog box.
Set the system alarm to project data for confirming error of PLC CPU and network.
- Error messages are displayed in English.
To display them in other languages, set system alarm in the project data.

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 occurring.

*1 Refer to the following manual for script function.

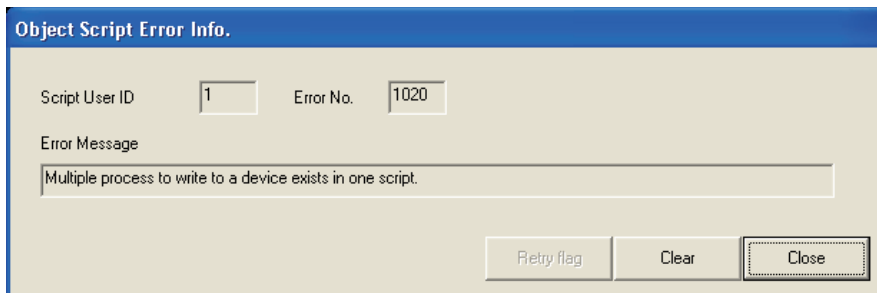
GT Designer3 Version1 Screen Design Manual (Functions)



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.



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.
	Object script is executed again.
	Displayed error message is cleared. However, it is redisplayed when the error keeps occurring.

*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)

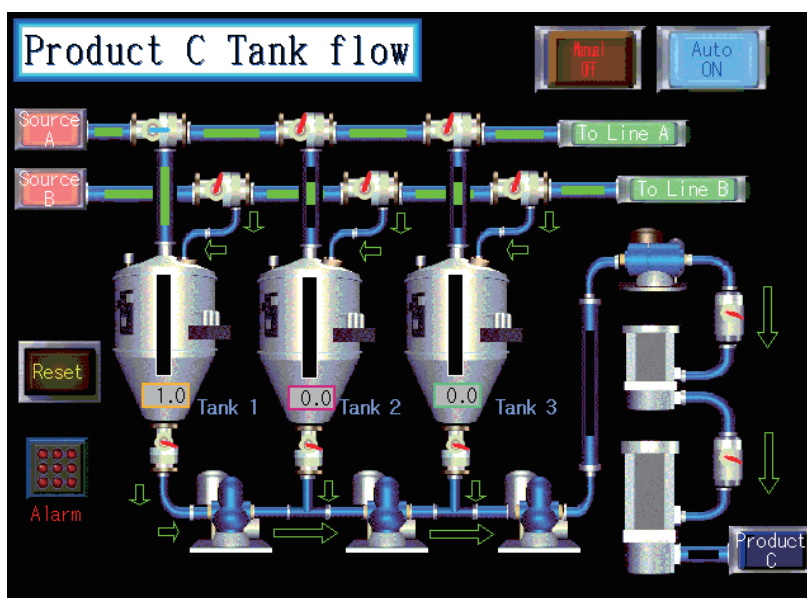
When selecting GT16**-X, GT15**-X (Resolution: 1024×768 dots), the GT Simulator3 screen can be displayed in full screen mode on a PC display.

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.)

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 debugging can be performed efficiently since the display can be checked on GT Simulator3 by this function.

The screenshot shows the LADDER LOGIC TEST TOOL interface. The main window displays a ladder logic diagram with a 'TouchSwitch, Lamp function' highlighted. The 'Device Monitor - [Base Screen]' window is open, showing a table of monitored devices. The table has the following columns: Object, Position, Device Kind, Device, Type, Value, and Change.

Object	Position	Device Kind	Device	Type	Value	Change
Numerical Display	25, 430	Monitor Device	0-FF D181	Word(16)	0000	Input
Lamp	514, 210	Monitor Device	0-FF GB2 51	Bit	0 OFF	
Lamp	514, 124	Monitor Device	0-FF GB2 52	Bit	0 OFF	
Lamp	515, 328	Monitor Device	0-FF GB2 50	Bit	0 OFF	
Lamp	99, 238	Monitor Device	0-FF M410	Bit	0 OFF	
Lamp	243, 239	Monitor Device	0-FF M186	Bit	0 OFF	
Lamp	100, 124	Monitor Device	0-FF M185	Bit	0 OFF	
Lamp	243, 125	Monitor Device	0-FF M185	Bit	0 OFF	
Touch Switch	388, 124	Write Device(Bit)	0-FF GB2 52	Bit	0 OFF	
Touch Switch	388, 210	Write Device(Bit)	0-FF GB2 51	Bit	0 OFF	
Touch Switch	387, 328	Write Device(Bit)	0-FF GB2 50	Bit	0 OFF	
Touch Switch	130, 355	Write Device(Word)	0-FF D181	Word(16)	0000	Input
Touch Switch	197, 355	Write Device(Word)	0-FF D181	Word(16)	0000	Input
Touch Switch	197, 355	Indirect Device	0-FF D181	Word(16)	0000	Input
Touch Switch	263, 355	Write Device(Word)	0-FF D181	Word(16)	0000	Input
Touch Switch	263, 355	Indirect Device	0-FF D181	Word(16)	0000	Input
Touch Switch	130, 412	Write Device(Word)	0-FF D181	Word(16)	0000	Input

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.

The screenshot shows the 'Device Monitor - [Base Screen]' window. The interface includes a menu bar with 'File(F)', 'Edit(E)', 'View(V)', and 'Window(W)'. Below the menu bar is a toolbar with icons for file operations and a dropdown menu set to 'Hexadecimal'. The main area is a table with columns: Object, Position, Device Kind, Device, Type, Value, and Change. The table lists various hardware components like Monitor Deivce, Lamp, and Touch Switch with their respective addresses and values. At the bottom, a status bar shows 'GX Simulator:Q25HCPU | Screen Action:DeviceMonitor <-> GT Simulator2 | Monitor Status: ON'.

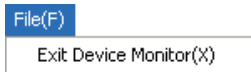
Object	Position	Device Kind	Device	Type	Value	Change
Comment	344, 360	Monitor Deivce	0-FF GD201	Word(16)	0000	Input
Comment	428, 360	Monitor Deivce	0-FF GD201	Word(16)	0000	Input
Comment	514, 360	Monitor Deivce	0-FF GD201	Word(16)	0000	Input
Comment	372, 164	Monitor Deivce	0-FF GD201	Word(16)	0000	Input
Lamp	64, 320	Monitor Deivce	0-FF X003 1	Bit	0	OFF
Touch Switch	224, 368	Write Device(Bit)	0-FF X003 1	Bit	0	OFF
Touch Switch	144, 320	Write Device(Bit)	0-FF X003 1	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 X003 1	Bit	0	OFF
Touch Switch	372, 224	Display Switching	0-FF GB1003	Bit	0	OFF

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7.3.2 Menu Bar

The commands assigned to the menu bar are described below.

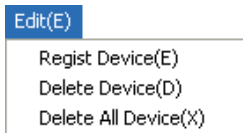
File



File menu includes the function to exit the Device Monitor.


 • 7.4 Device Monitor Operation Method

Edit

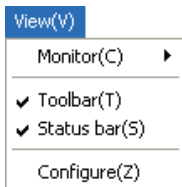


Edit menu includes the functions to register or delete devices in [Free Registration screen].


(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

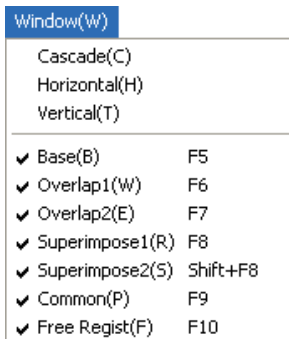
View




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



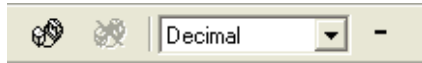
Window menu includes the functions such as aligning the Device Monitor screens and selecting display screens.


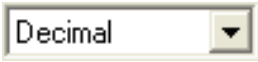



 • 7.3.4 Device Monitor screen
• 7.4 Device Monitor Operation Method

7.3.3 Tool Bar

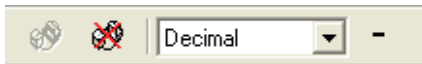
This section describes the tool bar.


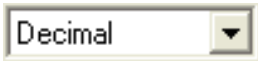



■ Before monitoring



Name	Description
	<p>Start Executes device monitoring.</p>
	<p>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] Make selection when handling the device value as signed binary value.</p>
	<p>With/Without a sign The [Changes of display of device value] can only be selected when [Decimal] is chosen.  7.3.4 (1) Display of [Value]</p>

■ While monitoring



Name	Description
	<p>Stop Stops device monitoring.</p>
	<p>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] Make selection when handling the device value as signed binary value.</p>
	<p>With/Without a sign The [Changes of display of device value] can only be selected when [Decimal] is chosen.  7.3.4 (1) Display of [Value]</p>

7.3.4 Device Monitor screen

This section describes the Device Monitor screen.

■ Device Monitor types

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

Object	Position	Device Kind	Device	Type	Value	Change
Comment	344, 360	Monitor Device	0-FF GD201	Word(16)	0000	Input
Comment	428, 360	Monitor Device	0-FF GD201	Word(16)	0000	Input
Comment	514, 360	Monitor Device	0-FF GD201	Word(16)	0000	Input
Comment	372, 164	Monitor Device	0-FF GD201	Word(16)	0000	Input
Lamp	64, 320	Monitor Device	0-FF X0031	Bit	0	OFF
Touch Switch	224, 368	Write Device	0-FF X0031	Bit	0	OFF
Touch Switch	144, 320	Write Device	0-FF X0031	Bit	0	OFF
Touch Switch	344, 352	Display Switching	0-FF C81000	Bit	0	OFF
Touch Switch	344, 352	Write Device	0-FF C81000	Bit	0	OFF
Touch Switch	428, 352	Display Switching	0-FF C81001	Bit	0	OFF
Touch Switch	428, 352	Write Device	0-FF C81001	Bit	0	OFF
Touch Switch	512, 352	Display Switching	0-FF C81002	Bit	0	OFF
Touch Switch	512, 352	Write Device	0-FF C81002	Bit	0	OFF
Touch Switch	384, 432	Write Device	0-FF GD200	Word(16)	0001	Input
Touch Switch	440, 432	Write Device	0-FF GD200	Word(16)	0001	Input
Touch Switch	496, 432	Write Device	0-FF GD200	Word(16)	0001	Input
Touch Switch	623, 0	Write Device	0-FF D100	Word(16)	0048	Input
Touch Switch	623, 0	Write Device	0-FF D101	Word(16)	0014	Input
Touch Switch	623, 0	Write Device	0-FF D102	Word(16)	0032	Input
Touch Switch	623, 0	Write Device	0-FF D103	Word(16)	000F	Input
Touch Switch	623, 0	Write Device	0-FF D104	Word(16)	0050	Input
Touch Switch	32, 156	Write Device	0-FF X0031	Bit	0	OFF
Touch Switch	372, 224	Display Switching	0-FF C81003	Bit	0	OFF

(Base Screen)

Object	Position	Device Kind	Device	Type	Value	Change
Bar	28, 15	Monitor Device	0-FF D100	Word(16)	0046	Input
Bar	28, 15	Monitor Device	0-FF D101	Word(16)	0014	Input
Bar	28, 15	Monitor Device	0-FF D102	Word(16)	0032	Input
Bar	28, 15	Monitor Device	0-FF D103	Word(16)	000F	Input
Bar	28, 15	Monitor Device	0-FF D104	Word(16)	0050	Input
Line	60, 15	Monitor Device	0-FF D100	Word(16)	0046	Input
Line	60, 15	Monitor Device	0-FF D101	Word(16)	0014	Input
Line	60, 15	Monitor Device	0-FF D102	Word(16)	0032	Input
Line	60, 15	Monitor Device	0-FF D103	Word(16)	000F	Input
Line	60, 15	Monitor Device	0-FF D104	Word(16)	0050	Input
Line	60, 15	Monitor Device	0-FF D110	Word(16)	0028	Input
Line	60, 15	Monitor Device	0-FF D111	Word(16)	0032	Input
Line	60, 15	Monitor Device	0-FF D112	Word(16)	0014	Input
Line	60, 15	Monitor Device	0-FF D113	Word(16)	0048	Input
Line	60, 15	Monitor Device	0-FF D114	Word(16)	001E	Input


(Window Screen)

Function	Device Kind	Device	Type	Value	Change
Language Switching	Language Switching	0-FF GD200	Word(16)	0001	Input
Project Script	Start Trigger Device	0-FF GD0 b4	Bit	1	ON
Project Script	Operator Device	0-FF GD200	Word(16)	0001	Input
Project Script	Operator Device	0-FF D114	Word(16)	001E	Input
Project Script	Operator Device	0-FF D113	Word(16)	0048	Input
Project Script	Operator Device	0-FF D112	Word(16)	0014	Input
Project Script	Operator Device	0-FF D111	Word(16)	0032	Input
Project Script	Operator Device	0-FF D110	Word(16)	0028	Input
Project Script	Operator Device	0-FF D104	Word(16)	0050	Input
Project Script	Operator Device	0-FF D103	Word(16)	000F	Input
Project Script	Operator Device	0-FF D102	Word(16)	0032	Input
Project Script	Operator Device	0-FF D101	Word(16)	0014	Input
Project Script	Operator Device	0-FF D100	Word(16)	0048	Input
Project Script	Operator Device	0-FF D22	Word(16)	0032	Input
Project Script	Operator Device	0-FF D21	Word(16)	0020	Input
Switching Screen/Switching Superimpose	Switching Screen	0-FF GD103	Word(16)	0001	Input
Switching Screen/Switching Overlap	Switching Screen	0-FF GD102	Word(16)	0000	Input
Switching Screen/Switching Overlap	Switching Screen	0-FF GD101	Word(16)	0001	Input
Switching Screen/Switching Base set	Switching Screen	0-FF GD100	Word(16)	0000	Input

(Common screen)

Register	Delete	Delete All	Device	Type	Value	Change
0-FF D0			Word(16)		0000	Input
0-FF D1			Word(16)		0032	Input
0-FF D2			Word(16)		0001	Input
0-FF D3			Word(16)		0000	Input
0-FF C810			Bit		1	ON
0-FF C811			Bit		0	OFF
0-FF GD0			Word(32)		00000000	Input
0-FF GD2			Word(32)		00092547	Input
0-FF GD4			Word(32)		00000032	Input
0-FF GD6			Word(32)		00000000	Input
0-FF M0			Bit		0	OFF
0-FF M1			Bit		1	ON
0-FF M2			Bit		1	ON
0-FF M3			Bit		0	OFF

(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

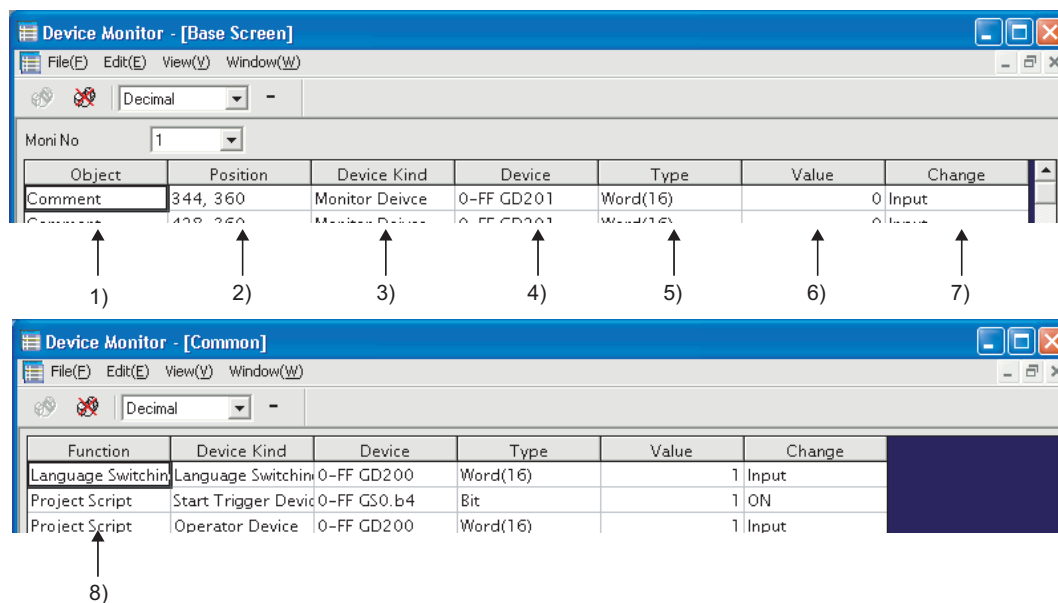
The Monitor Mode of Device Monitor and GT Simulator3 can be disabled from synchronizing.

For details, refer to the following.

 7.6.1 ■ Monitor Mode tab

■ 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.

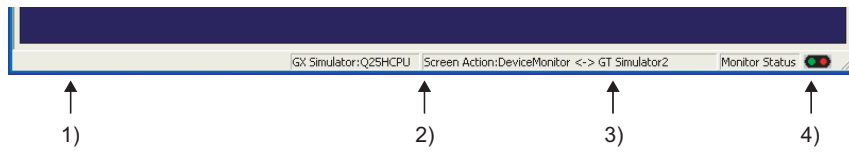
(1) Display of [Value]

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

Setting of [Changes of display of device 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 3777777777
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

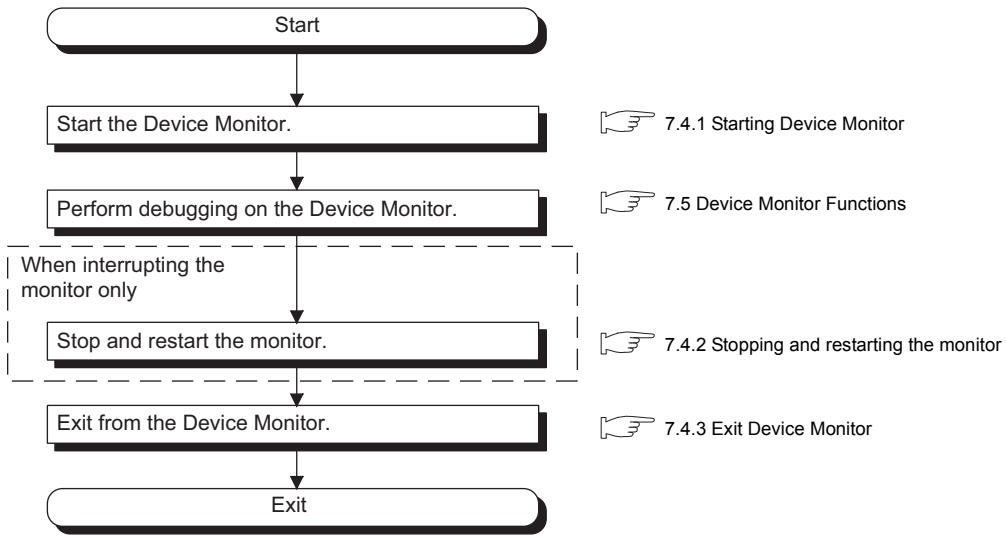
The status bar will be described below.




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.

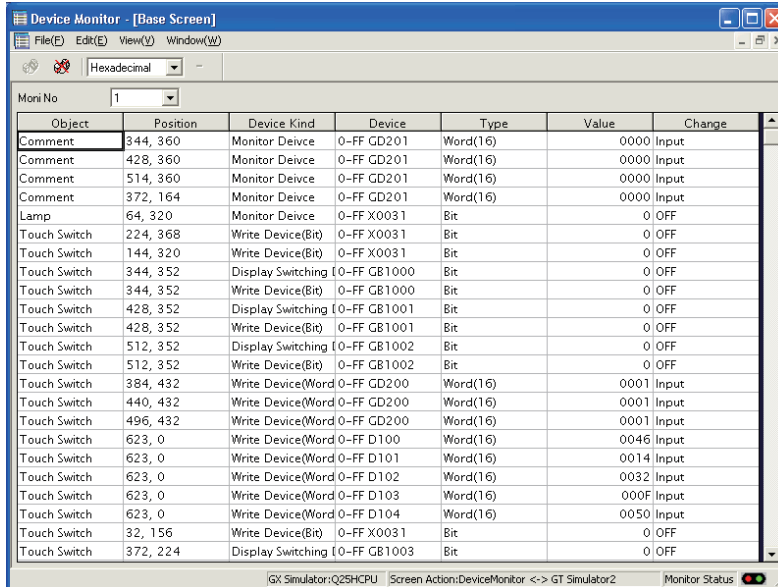
7.4 Device Monitor Operation Method

The device monitor operation method will be shown below.



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 Device	0-FF GD201	Word(16)	0000	Input
Comment	428, 360	Monitor Device	0-FF GD201	Word(16)	0000	Input
Comment	514, 360	Monitor Device	0-FF GD201	Word(16)	0000	Input
Comment	372, 164	Monitor Device	0-FF GD201	Word(16)	0000	Input
Lamp	64, 320	Monitor Device	0-FF X0031	Bit	0	OFF
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 G81000	Bit	0	OFF
Touch Switch	344, 352	Write Device(Bit)	0-FF G81000	Bit	0	OFF
Touch Switch	428, 352	Display Switching	0-FF G81001	Bit	0	OFF
Touch Switch	428, 352	Write Device(Bit)	0-FF G81001	Bit	0	OFF
Touch Switch	512, 352	Display Switching	0-FF G81002	Bit	0	OFF
Touch Switch	512, 352	Write Device(Bit)	0-FF G81002	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 G81003	Bit	0	OFF



POINT

Start of Device Monitor

Start the Device Monitor while simulating on GT Simulator3.

The Device Monitor cannot be started before executing or after stopping of the simulation on GT Simulator3.

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.

7.5 Device Monitor Functions

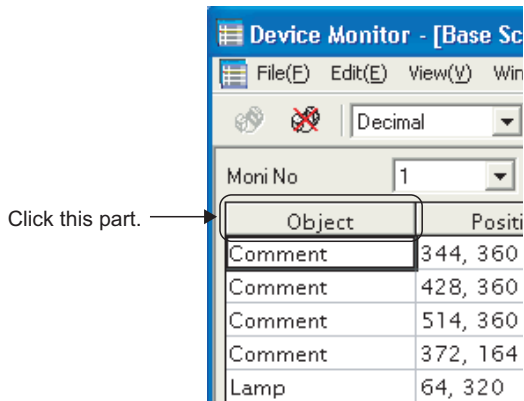
This section describes the device monitoring functions.

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.



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

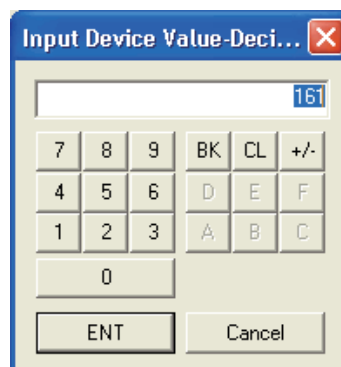
(3) When testing a word device with the mouse

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.)



(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].

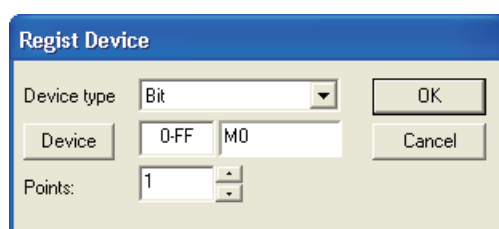
Value	Change
161	Input
0	OFF
0	OFF



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] → [Register 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.
	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]

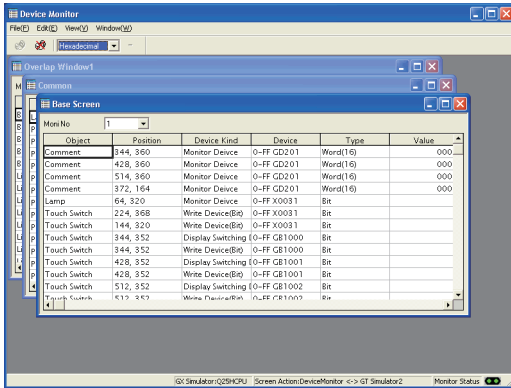
■ How to delete all devices

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].

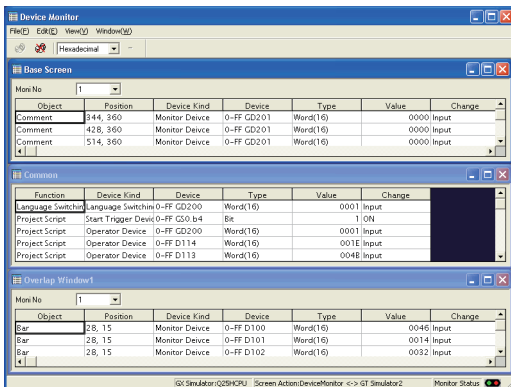
7.5.4 Displaying screens with cascade/tile

You can display all screens with cascade/tile.

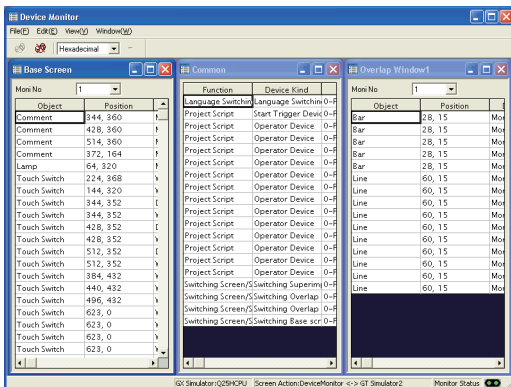
1. Select [Window] → [Cascade] / [Horizontal] / [Vertical] from the menu of the Device Monitor.
2. The screens are displayed as follows.
 - When selecting the [Cascade] from the menu



- When selecting the [Horizontal] from the menu



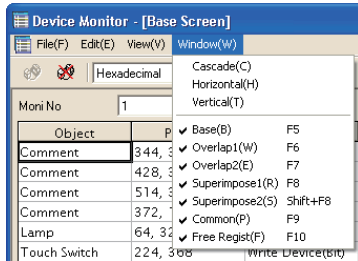
- When selecting the [Vertical] from the menu



7.5.5 Changing Device Monitor screen

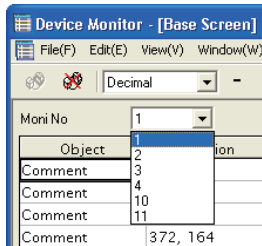
■ When changing the Device Monitor screen

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

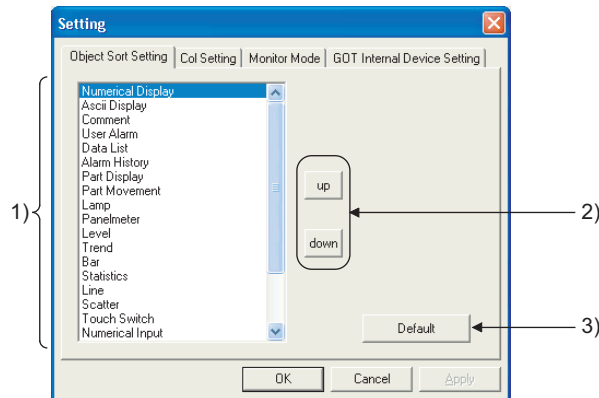
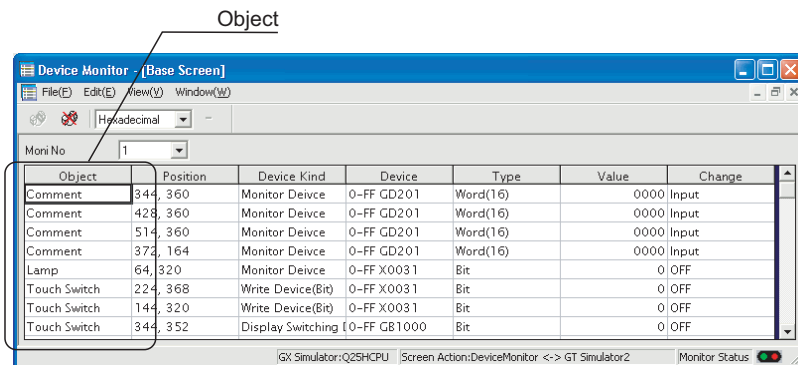
The display of the Device Monitor can be customized.

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.

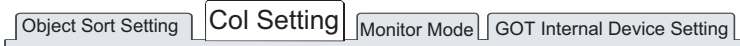
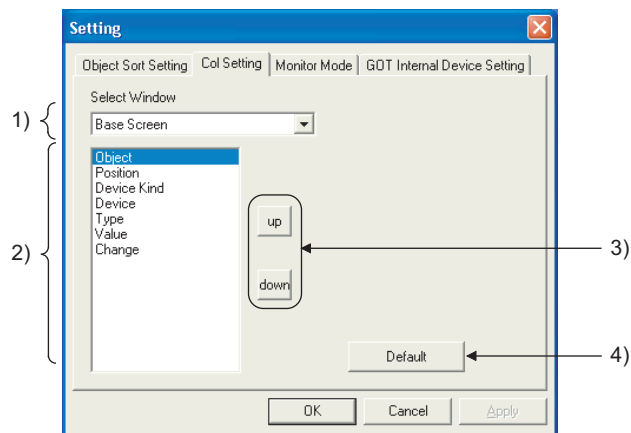
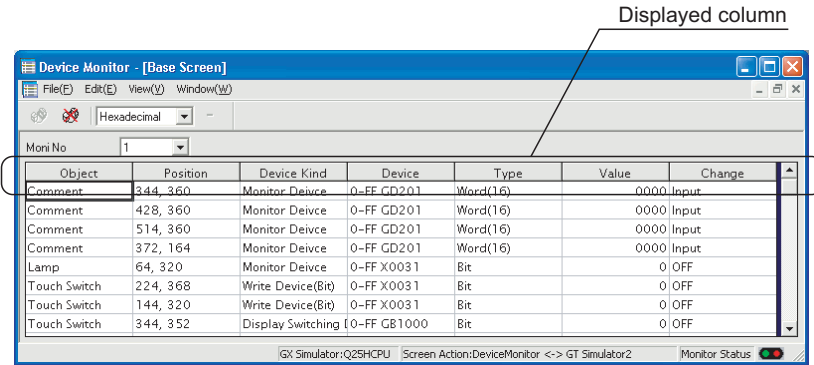


Object Sort Setting | Col Setting | Monitor Mode | GOT Internal Device Setting

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.

■ Col Setting tab

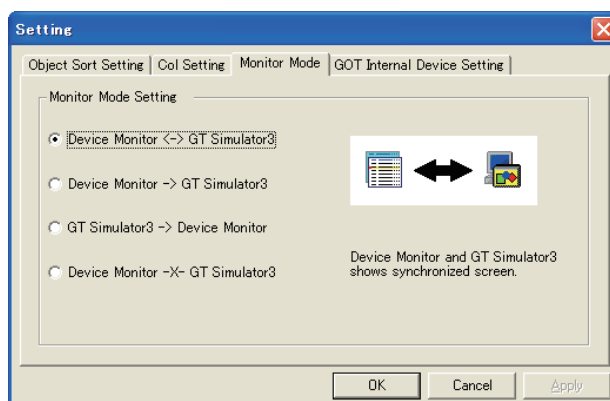
You can set the displayed column data order on the Base, Window, Common or Free Registration screen.



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.

■ 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	<p>Choose the screen switching pattern.</p> <ul style="list-style-type: none"> • 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

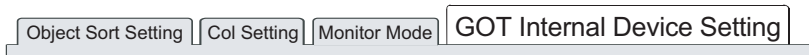
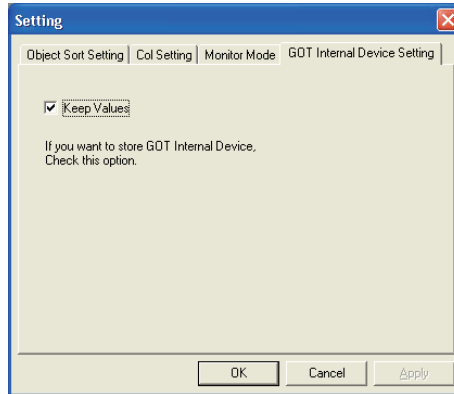
If you test device value without regarding of this setting, any changes are reflected on the Device Monitor and GT Simulator3.

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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Check whether the user logs in to Windows® XP, Windows Vista®, or Windows® 7 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®, or Windows® 7 is in use.
	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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 (2 different messages in all)	GX Simulator may be not installed correctly.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Close unnecessary applications. Check free hard disk space.
	GX Simulator may be not installed correctly.	After uninstalling GT Simulator, reinstall it.
Failed in the initialization of 'GX Simulator'. <ES: ****> ***** (32 different messages in all)	<ul style="list-style-type: none"> GT Simulator3, GX Simulator or GX Developer was not closed properly. Illegal process is running. 	<ul style="list-style-type: none"> 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 (2 different messages in all)	<ul style="list-style-type: none"> GT Simulator3, GX Simulator or GX Developer was not closed properly. Illegal process is running. 	<ul style="list-style-type: none"> 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 termination request. 'GX Simulator' is canceled. Please end 'GT Simulator3' at once and do the PC in Shutdown.	<ul style="list-style-type: none"> The GT Simulator3, GX Simulator or GX Developer was closed illegally last time. Illegal process is running. 	<ul style="list-style-type: none"> Restart GT Simulator3. After restarting the personal computer, restart GT Simulator3.
Fail in the Snap Shot.	<ul style="list-style-type: none"> The GT Simulator3 was closed illegally last time. Illegal process is running. 	<ul style="list-style-type: none"> 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: ****>	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Capacity of free disk. File access. 	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.
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.

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Error message	Definition and cause	Corrective action
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.	<ul style="list-style-type: none"> • GT Manual3 is not installed. • GT Manual3 is not installed correctly. 	After uninstalling GT Manual3, reinstall it.
Unsupported 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. <ul style="list-style-type: none"> • Please close user data if it is opened. • Check the file access privilege. 	Failed in erasing user data after loading screen data.	<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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 function 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.
Failed in reading. Please retry after checking the following. <ul style="list-style-type: none"> • 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.
	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Check whether the user logs in to Windows® XP, Windows Vista®, or Windows® 7 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®, or Windows® 7 is in use.
	<ul style="list-style-type: none"> • GT Simulator3 was not closed properly. • 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.


(Continued to next page)

Error message	Definition and cause	Corrective action
Project path of 'GX Developer' cannot be acquired. <cause> <ul style="list-style-type: none"> 'GT Simulator3' is not correctly installed. Unsupport PLC type is selected. Registry is destroyed. 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> GT Simulator3, GX Simulator or GX Developer was not closed properly. Illegal process is running. 	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> GT Simulator3, GX Simulator or GX Developer was not closed properly. Illegal process is running. 	<ul style="list-style-type: none"> 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.

(Continued to next page)


Error message	Definition and cause	Corrective action
There is no response from 'GX Simulator' for termination request. 'GX Simulator' is canceled. Please end 'GT Simulator3' at once and do the PC in Shutdown.	<ul style="list-style-type: none"> The GT Simulator3, GX Simulator or GX Developer was closed illegally last time. Illegal process is running. 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The GT Simulator3 was closed illegally last time. Illegal process is running. 	<ul style="list-style-type: none"> 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: ****>	<ul style="list-style-type: none"> Cable was disconnected. The cable was broken. 	After checking for the left causes, choose the button in the displayed dialog box.
	Transmission speed (Baud rate) is incorrect.	[Retry] Restarts communication.
	The PLC CPU type is different from that of the project setting.	[Cancel] After Cancel is selected, all communications will not be made. When performing simulation, restart GT Simulator3.
Check communication.	<ul style="list-style-type: none"> 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.

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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 privilege of the project data (e.g. a9gotp.got).
Manual file cannot be found. Please install manuals.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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).
	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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).
	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Please close recipe file if it is opened. Check the file access privilege. 	Failed in erasing user data after loading screen data.	<ul style="list-style-type: none"> 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.

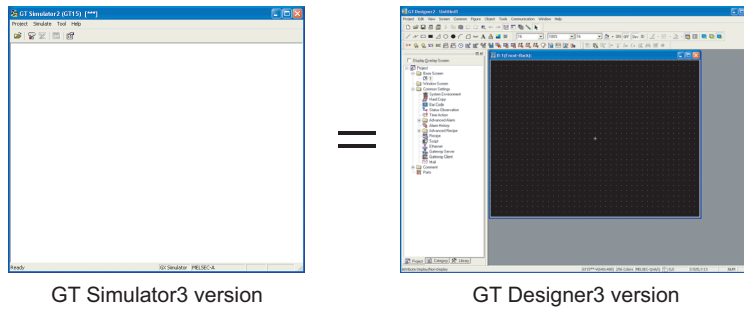
The same error messages are displayed as those of when GOT1000 series simulator is used.

 8.2 Error Message (GOT1000 series simulator)

APPENDICES

Appendix 1 Applicable Project Data

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



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

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

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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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Windows® 7 supported • Connection with Q50UDEHCPU and Q100UDEHCPU supported.
Jun., 2010	SH(NA)-080861ENG-D	Compatible with GT Simulator3 Version1.17T <ul style="list-style-type: none"> • Connection with LJ72GF15-T2 supported
Jan., 2011	SH(NA)-080861ENG-E	Compatible with GT Simulator3 Version1.23Z <ul style="list-style-type: none"> • Simulation of project data for GT10 supported • USB connection with FXCPU supported
Apr., 2011	SH(NA)-080861ENG-F	Compatible with GT Simulator3 Version1.28E <ul style="list-style-type: none"> • GT1655-V supported • GT Designer3 Help supported
Jul., 2011	SH(NA)-080861ENG-G	Compatible with GT Simulator3 Version1.31H <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Simulation of project data for GT14 supported • Description of simulating project data for GT12 added
Jan., 2012	SH(NA)-080861ENG-I	<ul style="list-style-type: none"> • Partial corrections
Apr., 2012	SH(NA)-080861ENG-J	Compatible with GT Simulator3 Version1.45X <ul style="list-style-type: none"> • Connection with FX3GC supported
Sep., 2012	SH(NA)-080861ENG-K	Compatible with GT Simulator3 Version1.58L <ul style="list-style-type: none"> • 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.

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Integrated FA Software

GT Simulator3 Version1

Operating Manual

for GT Works3

MODEL	SW1-GTSIM3-O-E
MODEL CODE	1D7MB1
SH(NA)-080861ENG-K(1209)MEE	

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