MITSUBISHI ELECTRIC

GRAPHIC OPERATION TERMINAL

GRAPHIC OPERATION TERMINAL
GOT1000

GT10

☞Colorful ☞Powerful ☞Simple

**A versatile range of graphic terminals
that fit to a diverse range of applications,
realizing affordability with basic functionality!**

Mitsubishi Electric Corporation Himeji Works is a factory certified for ISO14001
(standards for environmental management systems) and ISO9001(standards for
quality assurance management systems)

**Empowering
Industries**

GOT1000

Developed for the needs of industry !

GT10

A range of sizes, colors and connection methods to suit your needs.

Reasons why the GT10 series is becoming popular all over the world:

GOT1000 Functionality

- Connect directly to multiple servo amplifiers or inverters
- Enhanced alarm functions for alarm display, history and scrolling
- Easy to use device monitor, recipe function and clock function
- Multi-language switching
- Multi-unit connection (up to 16 units)
- Firmware updates available from the screen design software, GT Works3

✚ GT10 series

- Combining affordability with functionality
- Offering a range of screen colors
- Pre-installed OS for immediate use

3.7-inch GT1020 Super-Small Display

GT1020-LBD	Green Orange Red
GT1020-LBD2	Green Orange Red
GT1020-LBL	Green Orange Red
GT1020-LBDW	White Pink Red
GT1020-LBDW2	White Pink Red
GT1020-LBLW	White Pink Red

GT1020-LWD	Green Orange Red
GT1020-LWD2	Green Orange Red
GT1020-LWL	Green Orange Red
GT1020-LWDW	White Pink Red
GT1020-LWDW2	White Pink Red
GT1020-LWLW	White Pink Red

4.5-inch GT1030

GT1030-LBD	Green Orange Red
GT1030-LBD2	Green Orange Red
GT1030-LBL	Green Orange Red
GT1030-LBDW	White Pink Red
GT1030-LBDW2	White Pink Red
GT1030-LBLW	White Pink Red

Size	3.7-inch				4.5-inch	
Frame color	Black frame		White frame		Black frame	
Display colors	Green Orange Red	White Pink Red	Green Orange Red	White Pink Red	Green Orange Red	White Pink Red
Connection method RS-422 (24 VDC)	GT1020-LBD	GT1020-LBDW	GT1020-LWD	GT1020-LWDW	GT1030-LBD	GT1030-LBDW
RS-232 (24 VDC)	GT1020-LBD2	GT1020-LBDW2	GT1020-LWD2	GT1020-LWDW2	GT1030-LBD2	GT1030-LBDW2
RS-422 (5 VDC FX Series only)	GT1020-LBL	GT1020-LBLW	GT1020-LWL	GT1020-LWLW	GT1030-LBL	GT1030-LBLW

GT16,GT15,GT12,GT11-Taking display solutions to the next level!

GT11 model
Enhanced with basic functions for stand alone applications

GT12 model
Standard functions with built-in Ethernet

GT15 model
Wide range of uses packaged or in a network

GT16 model
With a variety of integrated functions, such as Ethernet and multimedia

5.7-inch
Flexible and Easy to Use

GT1050 ⚡ GT1055

GT1050-QBBD White/Blue 16 scales

GT1055-QSBD 256Colors

4.7-inch
Compact with Vivid Display

GT1040 ⚡ GT1045

GT1040-QBBD White/Blue 16 scales

GT1045-QSBD 256Colors

Wide Screen Display

GT10

GT1030-LWD	Green Orange Red
GT1030-LWD2	Green Orange Red
GT1030-LWL	Green Orange Red
GT1030-LWDW	White Pink Red
GT1030-LWDW2	White Pink Red
GT1030-LWLW	White Pink Red

NEW Easy Connection!

GT10-C□R4-8PC
Cable with terminal block connector for GT1020 and GT1030 (RS-422, Only for FX PLCs)

Serial Multi-drop Connection Unit

GT01-RS4-M

Maximum 16 GOT1000 series units
Maximum 500m connection length

page 8.>>>

White frame		4.7-inch		5.7-inch	
		Black frame		Black frame	
Green Orange Red	White Pink Red	White/Blue 16 scales	256Colors	White/Blue 16 scales	256Colors
GT1030-LWD	GT1030-LWDW	GT1040-QBBD	GT1045-QSBD	GT1050-QBBD	GT1055-QSBD
GT1030-LWD2	GT1030-LWDW2				
GT1030-LWL	GT1030-LWLW	-		-	

GT10

A versatile range of graphic terminals that fit to a diverse range of applications, realizing affordability with basic functionality!

5.7-inch

GT1050 / GT1055

256 Colors or White/Blue 16 scales

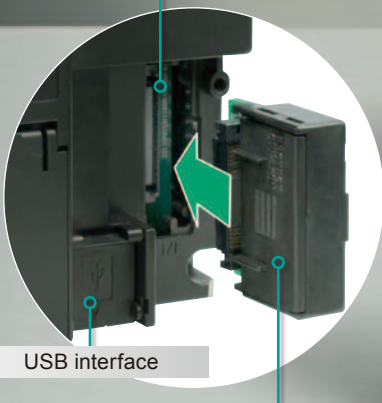A GOT that incorporates GT10 functionality on a GT11 size display

Featuring:

- Bright STN screen with backlight

- 2 model types: 256 colors model and 16 scales monochrome(white & blue) model

GT1050-QBBD
White / Blue 16 scales

Memory Board interface

USB interface

Data transfer Memory Board
GT10-50FMB

GT1055-QSBD
256 colors

	Screen Type	Screen Resolution	Backlight	Touch Switch	User Memory (Project Data)	Timer	Connection Port	Other functions
GT1050	5.7"	320 dots × 240 dots	STN White/Blue 16 scales	16×16 dots Matrix 50 /Screen	3 MB	Built-in	USB / RS-422 / RS-232	Transparent mode / Multi-unit connection / OS preinstalled / Versatile Layout
GT1055	5.7"	320 dots × 240 dots	STN 256 colors	16×16 dots Matrix 50 /Screen	3 MB	Built-in	USB / RS-422 / RS-232	Transparent mode / Multi-unit connection / OS preinstalled / Versatile Layout

GT1040 / GT1045

256 Colors or White/Blue 16 scales

4.7-inch

Same resolution as the 5.7" GT1050 / GT1055, but in a smaller package

Featuring:

- Bright STN screen with LED backlight

- 2 model types: 256 colors model and 16 scales monochrome (white & blue) model
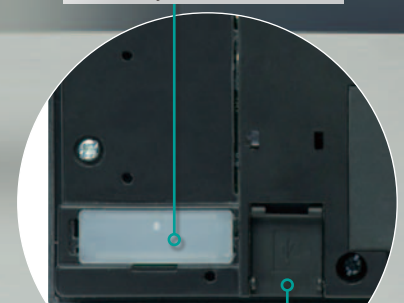
GT1040-QBBD
White / Blue 16 scales

GT1045-QSBD
256 colors

Memory Board interface

USB interface

Data transfer Memory Board
GT10-50FMB

	Screen Type	Screen Resolution	Backlight	Touch Switch	User Memory (Project Data)	Timer	Connection Port	Other functions
GT1040	4.7"	320 dots × 240 dots	STN White/Blue 16 scales	16×16 dots Matrix 50 /Screen	3 MB	Built-in	USB / RS-422 / RS-232	Transparent mode / Multi-unit connection / OS preinstalled / Versatile Layout
GT1045	4.7"	320 dots × 240 dots	STN 256 colors	16×16 dots Matrix 50 /Screen	3 MB	Built-in	USB / RS-422 / RS-232	Transparent mode / Multi-unit connection / OS preinstalled / Versatile Layout

5

GT10

A versatile range of graphic terminals that fit to a diverse range of applications, realizing affordability with basic functionality!

4.5-inch

GT1030

Green/Orange/Red Version or White/Pink/Red Backlight Options

Featuring:
- 3-color LED backlight that offers a bright display even under external illumination
- High resolution wide screen for intuitive screen designs

Black frame

GT1030-LBD
GT1030-LBD2
GT1030-LBL

GT1030-LBDW
GT1030-LBDW2
GT1030-LBLW

White frame

GT1030-LWD
GT1030-LWD2
GT1030-LWL

GT1030-LWDW
GT1030-LWDW2
GT1030-LWLW

Screen Type	Screen Resolution	Backlight LED-colors		Touch Switch	User Memory (Project Data)	Frame Color	Timer
GT1030 / 4.5"	288 dots × 96 dots	STN 3-colors Orange Green Red	STN 3-colors Pink White Red	16×16dots Matrix 50 /Screen	1.5MB	White Frame Black Frame	Built-in

Connection Port
RS-422
RS-232

Other functions
Transparent mode
Multi-unit connection
OS preinstalled
Versatile Layout

Main unit model name

G T 1 0 3 0 - L B D W 2

	LCD		Frame color		Power supply		Backlight color		Communication type
L	STN Monochrome	B	Black	D	24 VDC	-	Green/Orange/Red	-	RS-422
		W	White	L	5 VDC	W	White/Pink/Red	2	RS-232

● GT1020 and GT1030 5 VDC Types

The GT1020 and GT1030 both have 5V DC powered models available to connect to FX series PLCs. These GOTs receive both power and communications from one cable connected to the programming port of the FX PLC.

Power and **Communications** in **1 cable!**

No need for an additional power supply!

GOT1000

● 3-Color Backlight Screen for Vivid Data Visualization

- Offering screen colors that show the operating status of the application.
- Enabling specification of color and flashing of the backlight for each screen.
- Backlight control via the connected PLC*.

GT10 GT10 GT10 GT10 GT10 GT10

* Color switching and backlight setting to ON, OFF or flashing

GT1020

Green/Orange/Red Version or White/Pink/Red Backlight Options

Featuring:

- Ultra compact 3.7" Graphic Operator Terminal

- Analog touch screen for flexible screen layout

3.7-inch

Black frame

GT1020-LBD
GT1020-LBD2
GT1020-LBL

GT1020-LBDW
GT1020-LBDW2
GT1020-LBLW

White frame

GT1020-LWD
GT1020-LWD2
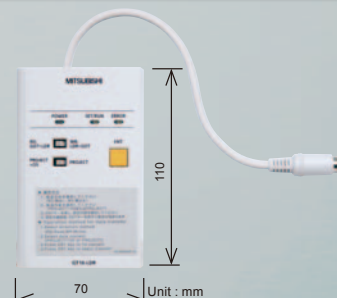GT1020-LWL

GT1020-LWDW
GT1020-LWDW2
GT1020-LWLW

Screen Type	Screen Resolution	Backlight LED-colors	Touch Switch	User Memory (Project Data)	Frame Color	Timer
GT1020 3.7"	160 dots × 64 dots	STN 3-colors Orange / Green Red — STN 3-colors Pink / White Red	2×2dots Analog 50 /Screen	512KB	White Frame Black Frame	Refer to PLC

Main unit model name   G T 1 0 2 0 - L B D W 2

	LCD
L	STN Monochrome

	Frame color
B	Black
W	White

	Power supply
D	24 VDC
L	5 VDC

	Backlight color
-	Green / Orange / Red
W	White / Pink / Red

	Communication type
-	RS-422
2	RS-232

Connection Port

RS-422
RS-232

Other functions

Transparent mode
Multi-unit connection
OS preinstalled
Versatile Layout

● GT10-LDR Memory Loader

-Has a compact design (70 × 110 mm), the GOT transfer cable can also be stored inside the body.

-Can write standard monitor OS, communication driver and project data.

-Can read project data and resource data.

-Offers a simple switch type operation, where the write-protect switch prevents erroneous reading.

- Does not require a power supply as power is supplied from the GOT or personal computer.

At the desk... — Standard monitor OS, communication driver project data, resource data*1 — **GT10-LDR** — Standard monitor OS, communication driver project data, resource data*2 — **...on location**

PC (GT Designer2)   **Read/Write**   USB cable (1 m) included

Read/Write   RS-232 transfer cable (0.2 m) built-in   GT1020/GT1030

110
70   Unit : mm

*1: The basic OS and communication driver can be written only, and resource data can only be read.
*2: Resource data can only be read.

GT10

The GT10 series can handle communication with various different devices. Now the GT10 series can connect to even more devices over even greater distances.

Multi-device connection and multi-

Servo adjustment

Parameter set
Alarm check
JOG operation
Monitoring

Mitsubishi AC Servo Amplifiers
up to 32 units at up to 500m
total connection lengnth

Monitoring
Parameter Set

Servo motor

[**Connectable Units**] MR-J2M-P8,☐DU MR-J2S-☐A,CP,CL MR-J3-☐ A,T
[**Software Versions**] GT Designer2 Ver. 2.93X or later, GT Works3

MODBUS/RTU communication now available

Modbus RTU master functionality is now included in GT10 series HMIs[1]. With this, up to 31 compatible Modbus devices such as inverters or temperature controllers can be connected to one GOT.

Maximum **1,200 m**[2]
Maximum **115.2 kbps**

Other Modbus device
Temp controller
Inverter

Max. **31** devices connect to **1 GOT!**

RS-232 or RS-485

Note: GT Works3 or GT Designer2 Ver. 2.96A or later is required for this functionality.
*1. Refer to the compatibility table for supported products in tech news article -0039
*2. Depending on the connected device and communication speed

| RS-485 Support Hardware Version | GT105☐: C or later, GT104☐: from first version, GT1030: B or later, GT1020: E or later |
| Software Version | GT Designer2 Ver. 2.93X or later, GT Works3 |

Multi-drop connection offers flexible system configuration

Want to increase the number of connected HMIs?
Lengthen the connection distance?

Serial Multi-drop Connection Unit

GT01-RS4-M

Main Panel

Mitsubishi PLCs
FX, A, QnA, Q series
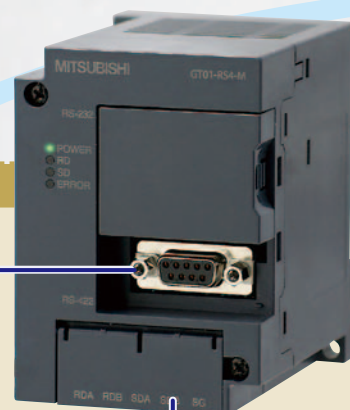
RS-422/RS-232   RS-485

Notice **To correspond with Multi-drop connectivity the GOT hardware has been updated.**

| RS-485 Support Hardware Version | GT105☐: C or later, GT104☐: from first version, GT1030: B or later, GT1020: E or later |
| Software Version | GT Designer2 Ver. 2.93X or later, GT Works3 |

Please refer to Technical news Himeji works -0039C for more details.

terminal GOT display options

GOTs allow easy set up of inverter and servo parameters, as well as convenient monitoring and control functions.
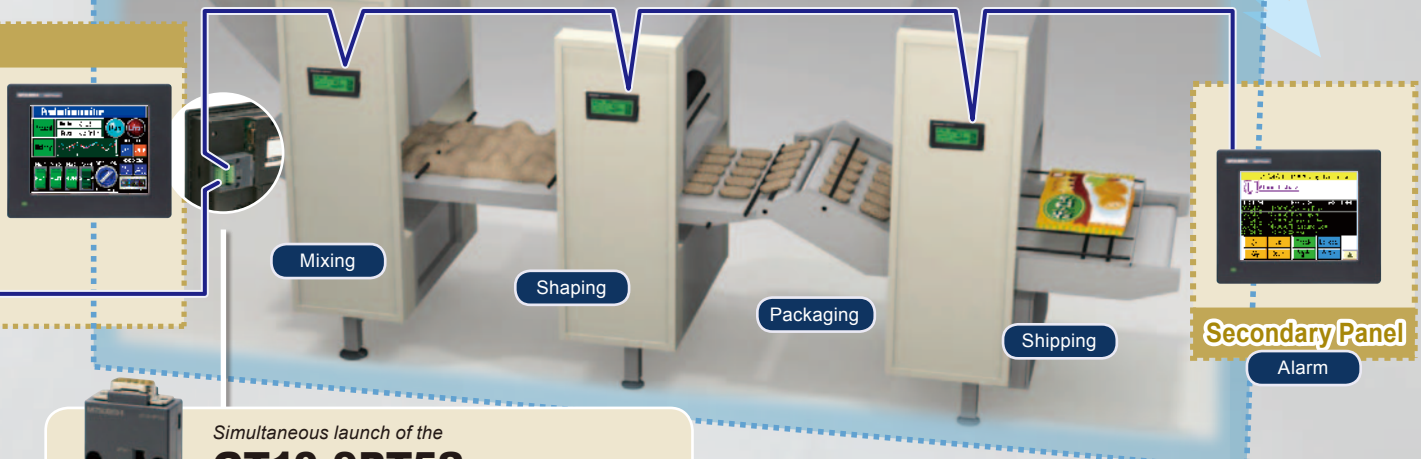
MONITORING

**Mitsubishi Inverters
up to 31*connectable
at up to 500m***
total connection lengnth
*using RS-485

Parameter set
Alarm check
Drive commands
Monitoring

Monitoring

Drive Commands

[Connectable Units] S500, A500, E500, F500, V500, A700, F700, E700, D700
[Software Versions] GT Designer2 Ver. 2.91V or later, GT Works3

Do both with this unit !

**Maximum
16 GOT1000 series units**
**Maximum
500m connection length**

Mixing

Shaping

Packaging

Shipping

Secondary Panel
Alarm

Simultaneous launch of the
GT10-9PT5S *Connection Adapter*
Enables easy wiring to the Multi-drop unit for
supported equipment:GT104□, GT105□, GT115□

GT10

To quickly transform the front end of your machine into a more user friendly and sophisticated interface.

MELSOFT

GOT1000 Screen Design Software
GT Works3

7points

to easily create new screens and transfer them to the GT10

Point 1 | **Work tree**

View the whole project, create a new screen, and add and delete screens – with ease.

Point 2 | **Property sheet**

A selected object or graphic's settings are displayed in a tree view. Set colors, devices, etc., on the property sheet without opening a dialog box. When selecting the same objects or graphics, change color, character size, etc., all at the same time.

Point 3 | **Temporary area**

Reduce workspace clutter by moving objects off the display area.
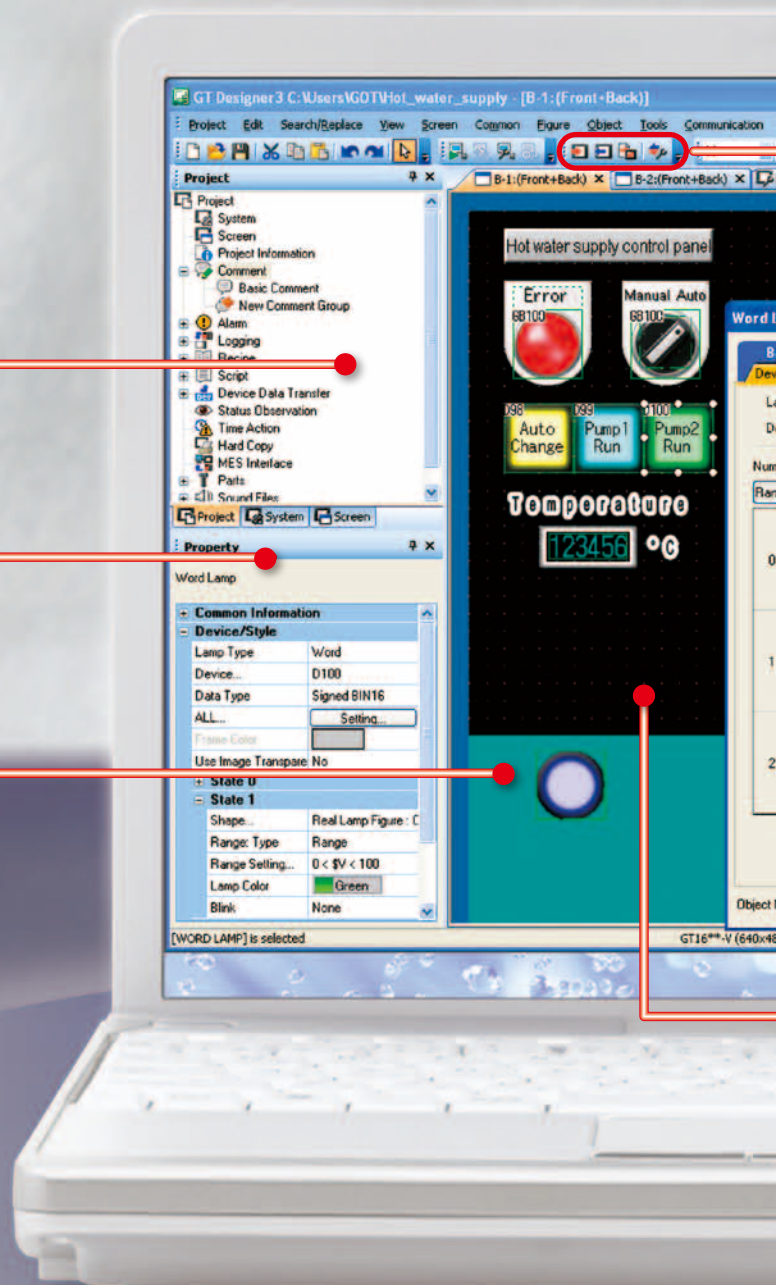
Visualization now offers much more than just what you see is what you get - This 3rd generation screen design software incorporates more user-friendly and customizable features to match users of all skill levels and provide the fastest, most intuitive method to create screen display programs we have ever created.
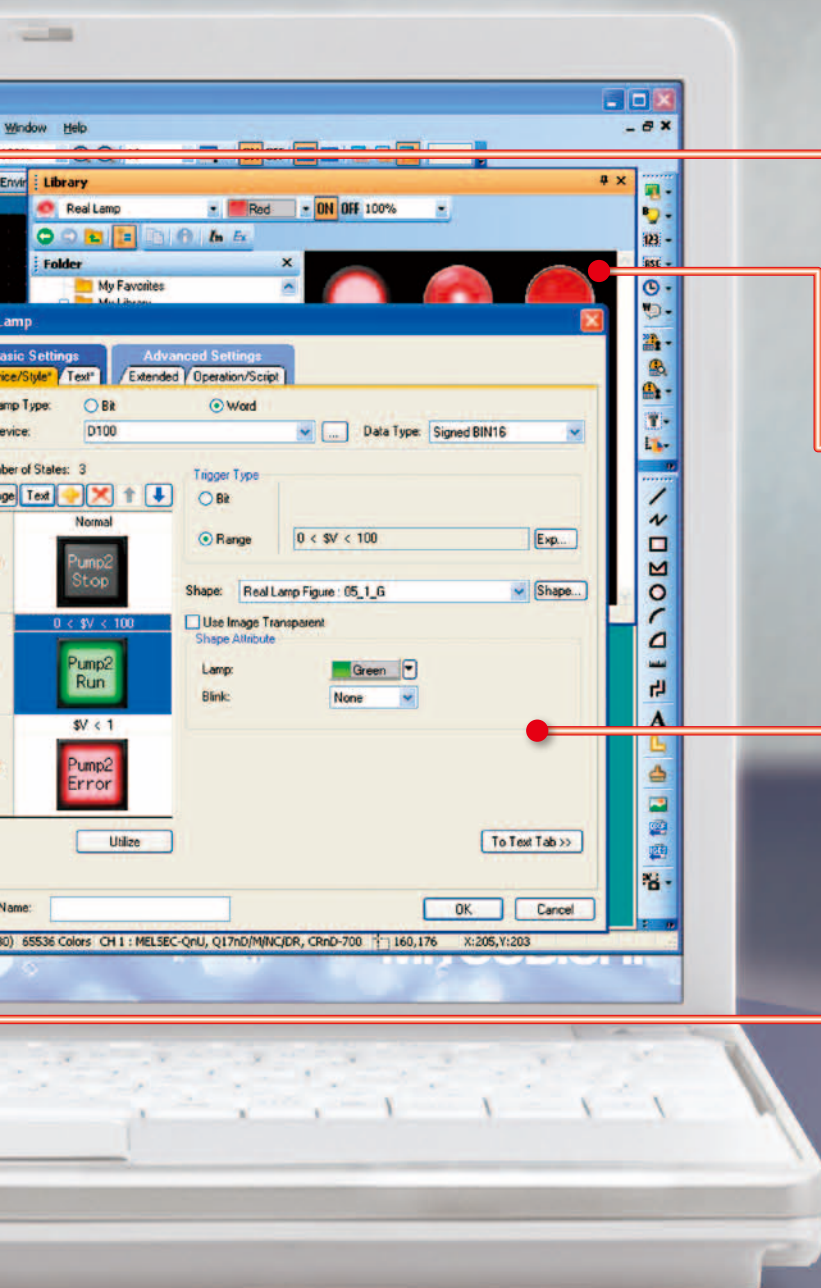
Point 4 Communication with the GOT

Communication settings and drivers are automatically selected and downloaded to the GOT with the project data.

Point 5 Library

Parts are easy to select. High resolution graphics and parts are easy to create and incorporate into projects.

Point 6 Dialog box

User friendly dialog boxes and object settings allow fast and intuitive design even for novice users.

Point 7 Editor "screen design area"

Navigate through multiple screens easily with a simple click of a tub. Designers can take advantage of numerous convenient and efficient development functions such as this.
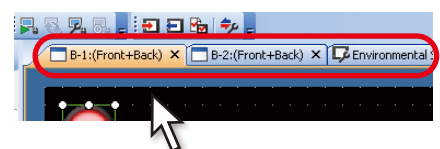
WHY GT10? 1 — Choose your font!

A variety of fonts are available including the standard type set and the windows type set. When windows fonts are selected, italic, underlined and underlined italic are also available.

WHY GT10? 2 — Device monitor function

You can monitor the ON/OFF status of bit devices and values of word devices in FX/Q/QnA/A Series PLCs, as well as change the timer and counter values.

GT1055

GT1020
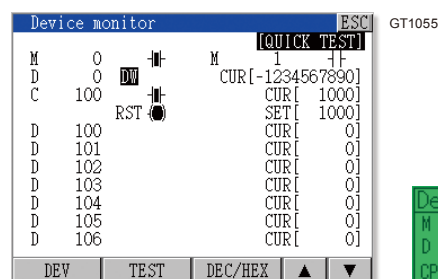
WHY GT10? 3 — Alarm function

The GOT offers alarm display, alarm history and alarm scroll functions to enable display setting for each window. Language switching for alarms is also available.

You can set alarm scroll, color and display position.

GT1055

GT1020
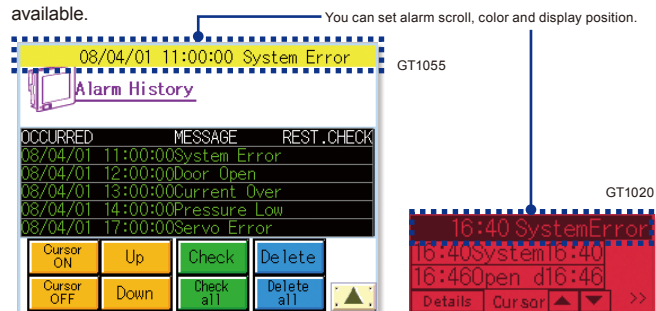
WHY GT10? 4 — Simple data setting using the recipe function

The GOT has a built-in memory for up to 4,000 points (corresponding to 16-bit word devices). Using this memory the GOT can transfer a range of values to and from the PLC.

Recipe function

Read

Write

Recipe 1		Recipe 2	
Cut size : large		Cut size : small	
D0	2000	D0	1000
D1	5000	D1	2500
D2	6000	D2	3000
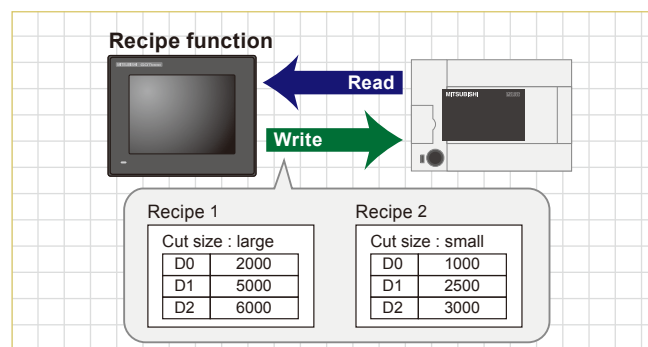
WHY GT10? 5 — Simple set-up of language switching windows

Language switching windows can be easily created allowing one language to be switched to another, for example English to Japanese.

Up to 10 languages can be switched per comment group. Window switching can take place not only for languages but also for different applications.

English   Japanese

WHY GT10? 6 — Preinstalled OS to enable immediate use

Pre-installed OS

The OS of the GOT is installed before shipment from the factory.

Communication driver

The communication driver mounted before shipment is provided for an FX Series PLC. To connect a Q/QnA/A Series PLC, microcomputer board or other supported PLC device you have to install the required communication driver available from GT Works3.

When using a GOT together with a FX PLC, all that is required is to download the project data.

PLC
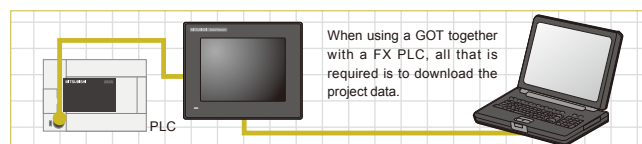
WHY GT10? 7 — Sequence program editor

Applicable models : GT1050 GT1055   GT1040 GT1045

You can edit sequence programs in list format of the FX PLC in the GOT. This function is convenient for simple program changes on site.

GT1055
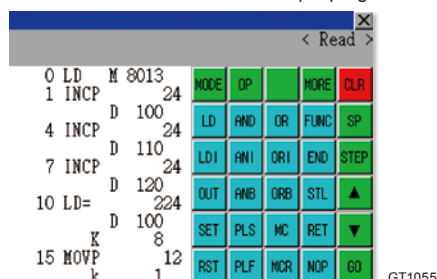
WHY GT10? 8 — Enhanced window functions

- 512 windows are available.
- The window overlay function is available.
- The window superimpose function is provided.

This window pops up on the base window.   This window is composed on the base window.
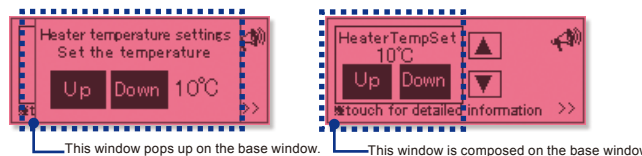
WHY GT10? 9 — Screen save function

The backlight ON/OFF setting achieves energy-saving whilst enabling the GOT to function. The GOT screen can be controlled from the PLC, allowing backlight and alarm windows to be controlled in the event of an error.

WHY GT10? 10

Multi-terminal connection*³

Up to two GT10 units can be connected to one PLC unit even if the screen sizes differ. Thus enabling greater flexibility with terminal positioning.
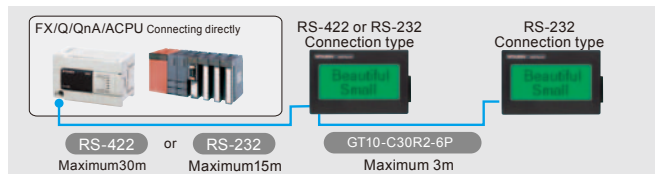
GT1050 GT1055 **GT1040 GT1045**

When RS-422 is used to connect the 1st unit*⁴

Cable
GT01-C30R2-9S

RS-422
Maximum30m

RS-232
Maximum15m

FX,A,QnA

When RS-232 is used to connect the 1st unit*⁴

Cable
Made by customer

RS-232
Maximum15m

RS-422
Maximum30m

FX,Q

GT1030 **GT1020**

FX/Q/QnA/ACPU Connecting directly

RS-422 or RS-232
Connection type

RS-232
Connection type

RS-422
Maximum30m

or

RS-232
Maximum15m

GT10-C30R2-6P
Maximum 3m

*3: The transparent function is not available when multiple units are connected. The USB interface is not available for connection of two units.

*4: Refer to the connection manual for applicable models, required interface and compatibility with serial communication units (computer link units). The maximum length varies depending on the connected equipment. Refer to the connection manual for details.

WHY GT10? 11

Transparent function connecting the PLC via the GOT

Through the personal computer communication connector at the rear of the GOT, users can debug, start and adjust sequence programs.

GT1050 GT1055 **GT1040 GT1045**

Communication port: 3 channels

Connection cable
GT01-C30R2-9S

RS-232
(PLC or PC connection)

RS-422

Memory board interface

Battery board iterface

FX/Q/QnACPU Connecting directly
Q/QnACPU Serial communication unit connection

Connection cable
GT09-C30USB-5P (3m)

Transparent Function

Connected to the PLC via the GOT (USB or RS-232)

GX Developer GX Works2
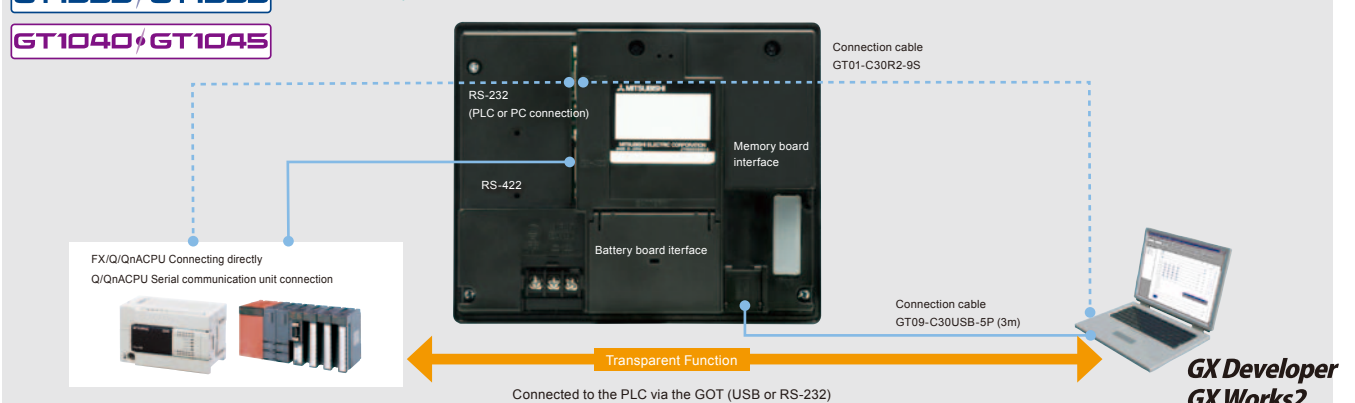
GT1030 **GT1020**

Communication port: 2 channels

RS-422(Removable type)
or
RS-232(Removable type)

Connection cable
RS-232:GT01-C30R2-6P(3m)
or
USB:GT10-RS2TUSB-5S
+GT09-C30USB-5P(3m)

FX/Q/QnACPU Connecting directly
Q/QnACPU Serial communication unit connection

Transparent Function

Connected to the PLC via the GOT (RS-232)

GX Developer GX Works2
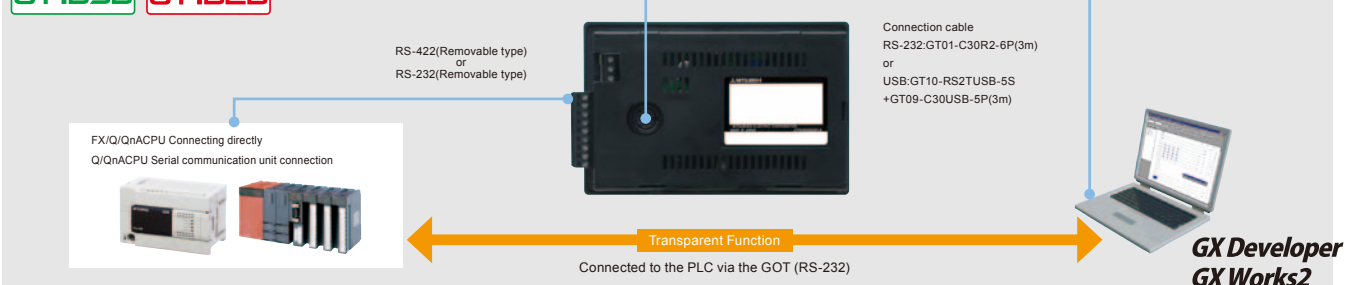
WHY GT10? 12

Versatile mounting

Both horizontal and vertical mounting is available for the GT10 Series causing minimum impact to the application design.

WHY GT10? 13

Connection to the bar code reader

The RS-232 connection port for personal computer can also be used to connect to a bar code reader.Data is automatically sent to specified address in the PLC.

GT1020 or GT1030 Configuration

PLC

DataRegister
D1000 | 1234

Bar code reader

RS-232

GT10-C02H-6PT9P
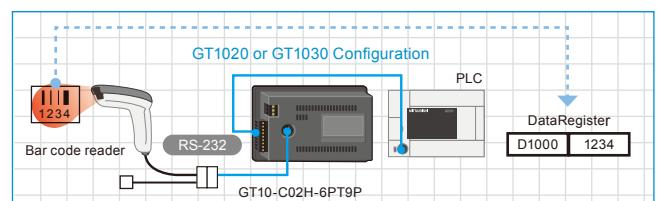
Function list

Functions		GT10	GT11	GT15/GT16
Main unit functions				
OS Pre-install	Boot OS installation	●	—	—
	OS installation	●	—	—
	Communication driver	● (onlyFX)*1	—	—
Font Pre-install	Japanese	●	—	—
	Chinese (Simplified)	—	—	—
	English	●	—	—
	Korean	—	—	—
Boot OS installation		—	●	●
OS installation		●	●	●
Start from CF card		—	—	●
Project data download/upload	Usable also on memory board	●*10	—	—
	Usable also on CF card	—	●	●
Resource data upload	Usable also on CF card	—	●	●
Transparent function		●	●	●
Multi-channel function(Max 4ch)		—	—	●
Gateway function		—	—	●*2
MES interface function(Option function board is required)		—	—	●*2
Multi-unit connection (MAX 2 unit)		●	●	—
Multi-drop connection (MAX 16 unit)		●	●	●
Modbus connection		●	●	●

Screen design		GT10	GT11	GT15/GT16
Specifications Base screen		●	●	●
Superimposed window display		●	●	●
Overlap window display		●	●	●
Dialog window display		—	●	●
Supported image data format	BMP image display	●	●	●
	JPEG image display	—	—	●
	DXF data	●	●	●
	IGES data	—	●	●
Fonts	Standard fonts(basic)*3	●	●	●
	Standard fonts(optional)*4	—	—	●
	High-quality font	●	●	●
	True Type font	●	●	●
	Windows® font	●	●	●
	Stroke basic font (extended)	—	—	●
	Stroke font (optional)	—	—	●
Common settings System language switcing	Japanese	●	●	●
	Chinese (Simplified)	●	●	●
	German	—	●	●
	English	●	●	●
	Korean	—	●	●
	Chinese (Traditional)	—	●	●
Parts (object + figure) layer function		—	●	●
Screen switching		●	●	●
Station No. switching		—	—	●
Multilingual support function		●	●	●
Password		●	●	●
System information		●	●	●
Connected device setting		●	●	●
Object settings Boot logo		●	●	●
Comment registration		●	●	●
Parts registration		●	●	●
Data operation function		●	●	●
Offset function		●	●	●
Security function	Security level authentication	●	●	●
	Operator authentication	—	—	●
Lamp display		●	●	●
Touch switch		●	●	●
Numeric display/input		●	●	●
Data list display		—	●	●
ASCII display/input		●	●	●
Kana-Kanji conversion function		—	—	●
Clock display		●	●	●
Comment display		●	●	●

Functions		GT10	GT11	GT15/GT16
Object settings Extended alarm monitoring/display		—	—	●*2
Alarm list display		●	●	●
Alarm history display		●	●*2	●*2
Floating alarm display		●	●	—
Parts display		●	●	●*2
Parts movement		—	●	●*2
Panel meter display		●	●	●
Level display		—	●	●
Graph	Trend graph	●	●	●
	Historical trend graph*5	—	—	●
	Line graph,Bar graph	●	●	●
	Statistical graph	●	●	●
	Scatter graph	—	●	●
Status observation function		●	●	●
Extended recipe function		—	—	●*2
Recipe function		●	●*2	●*2
Time action function		●	●	●
Report function	File saving in CF card	—	—	●
Hardcopy function	File saving in CF card	—	—	●
	Print out	—	—	●*6
Barcode function		●	●	●
RFID function		—	●	●
Others Vertical display		●	●	—
Sound output function*7		—	—	●
External input/output function*8		—	—	●
Operation panel function*8		—	—	●
Screen call function		●	●	●
Operation log function	File saving in CF card	—	—	●
Document display function (Option function board and CF card required)		—	—	●
Logging function		—	—	●
Script function	Project script	—	●	●
	Screen script	—	●	●
	Object script	—	—	●
Device data transfer function		—	—	●

Maintenance functions	GT10	GT11	GT15/GT16
Device monitor function	●	—	—
System monitor function	—	●	●
List editor for A	—	●*9	●
List editor for FX	●*10	●*11	●
Ladder monitor function	—	—	●
Intelligent unit monitor function	—	—	●*12
Q motion monitor function	—	—	●
Servo amplifier monitor function	—	—	●
Network monitor function	—	—	●
Backup/restoration function	—	—	●
Maintenance time notification function*13	—	—	●

*1:You have to install the required communication driver available from GT Works3
*2:CF cards are necessary conditions maybe
*3:Suported GT10:European(Japanese),GT11,GT15:European(Japanese,Chinese)
*4:Chinese (Simplified),Chinese (Traditional),Japanese
*5:Combination of logging function
*6:Printer unit is required
*7:Sound output unit is required
*8:External I/O unit is required
*9:The GT115□-Q□BDQ is not applicable
*10:Supported only by GT105□ / GT104□
*11:Only serial communication type
*12:Not supported by the GT155□-Q
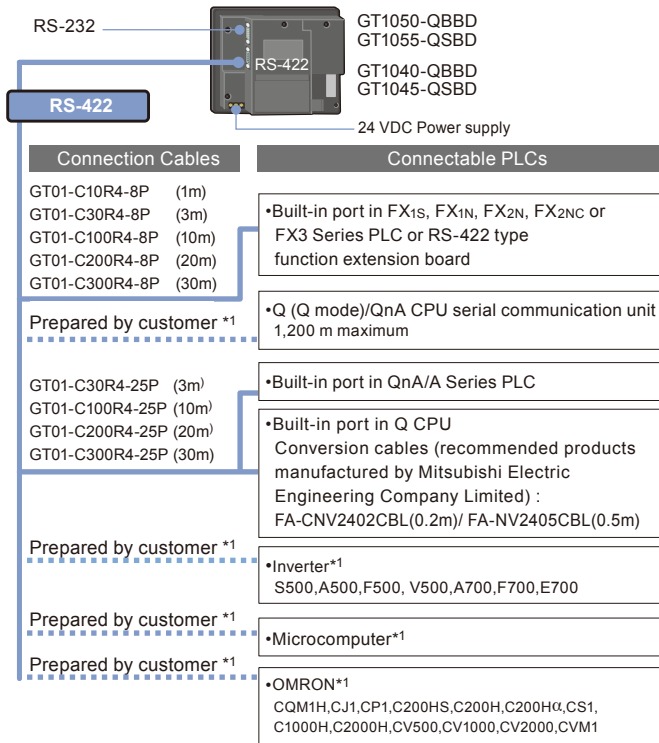*13:Battery is required

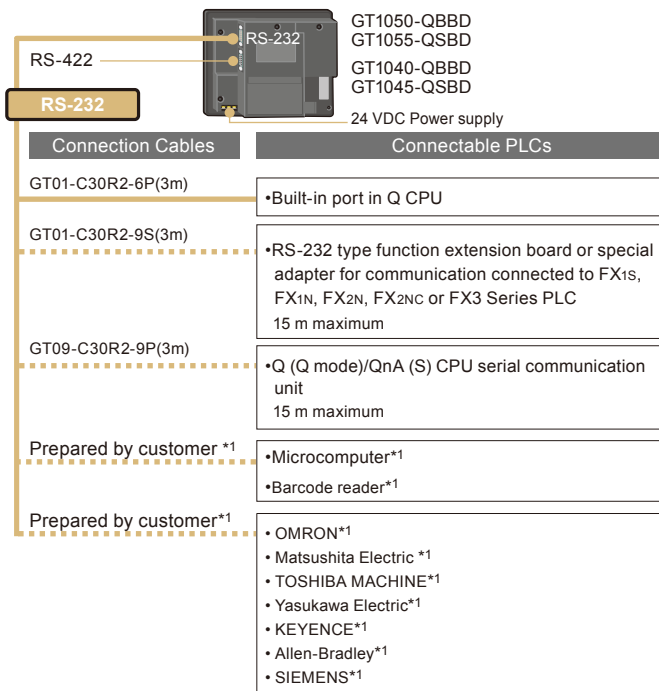For further details on using these features please refer to the manual.

System Configuration

GT1050 / GT1055 | GT1040 / GT1045
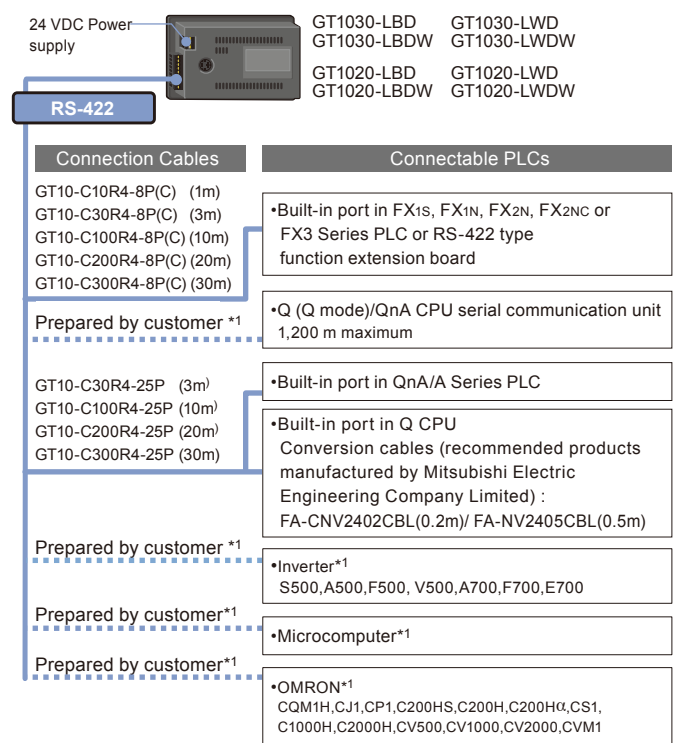
RS-422 (24 VDC Power supply)

RS-232

RS-422

RS-422
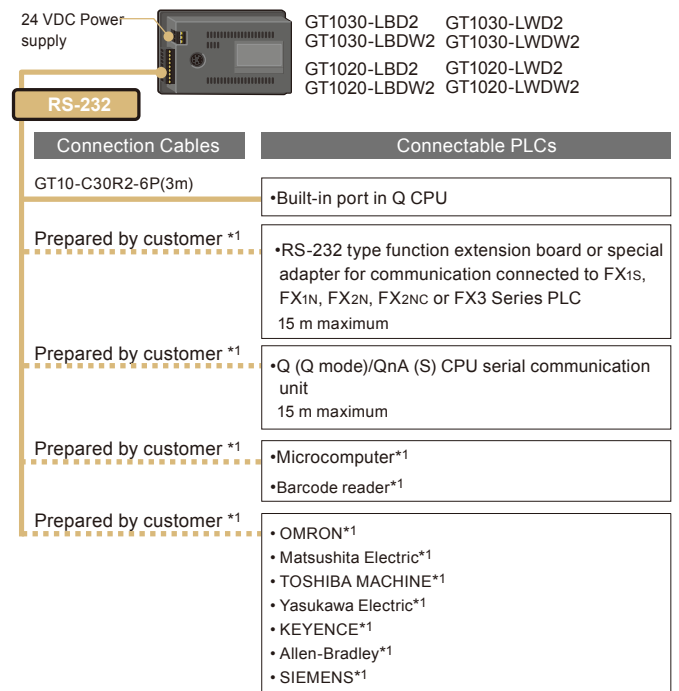
GT1050-QBBD
GT1055-QSBD

GT1040-QBBD
GT1045-QSBD

24 VDC Power supply

Connection Cables	Connectable PLCs
GT01-C10R4-8P (1m) GT01-C30R4-8P (3m) GT01-C100R4-8P (10m) GT01-C200R4-8P (20m) GT01-C300R4-8P (30m)	•Built-in port in FX1S, FX1N, FX2N, FX2NC or FX3 Series PLC or RS-422 type function extension board
Prepared by customer *1	•Q (Q mode)/QnA CPU serial communication unit 1,200 m maximum
GT01-C30R4-25P (3m) GT01-C100R4-25P (10m) GT01-C200R4-25P (20m) GT01-C300R4-25P (30m)	•Built-in port in QnA/A Series PLC
	•Built-in port in Q CPU Conversion cables (recommended products manufactured by Mitsubishi Electric Engineering Company Limited) : FA-CNV2402CBL(0.2m)/ FA-NV2405CBL(0.5m)
Prepared by customer *1	•Inverter*1 S500,A500,F500, V500,A700,F700,E700
Prepared by customer *1	•Microcomputer*1
Prepared by customer *1	•OMRON*1 CQM1H,CJ1,CP1,C200HS,C200H,C200Hα,CS1, C1000H,C2000H,CV500,CV1000,CV2000,CVM1

RS-232 (24 VDC Power supply)

RS-232

RS-422

RS-232

GT1050-QBBD
GT1055-QSBD

GT1040-QBBD
GT1045-QSBD

24 VDC Power supply

Connection Cables	Connectable PLCs
GT01-C30R2-6P(3m)	•Built-in port in Q CPU
GT01-C30R2-9S(3m)	•RS-232 type function extension board or special adapter for communication connected to FX1S, FX1N, FX2N, FX2NC or FX3 Series PLC 15 m maximum
GT09-C30R2-9P(3m)	•Q (Q mode)/QnA (S) CPU serial communication unit 15 m maximum
Prepared by customer *1	•Microcomputer*1 •Barcode reader*1
Prepared by customer *1	• OMRON*1 • Matsushita Electric *1 • TOSHIBA MACHINE*1 • Yasukawa Electric*1 • KEYENCE*1 • Allen-Bradley*1 • SIEMENS*1

*1: Please refer to the connection manual for details.

GT1030 | GT1020

RS-422 (24 VDC Power supply)

24 VDC Power supply

RS-422

GT1030-LBD   GT1030-LWD
GT1030-LBDW GT1030-LWDW

GT1020-LBD   GT1020-LWD
GT1020-LBDW GT1020-LWDW

Connection Cables	Connectable PLCs
GT10-C10R4-8P(C) (1m) GT10-C30R4-8P(C) (3m) GT10-C100R4-8P(C) (10m) GT10-C200R4-8P(C) (20m) GT10-C300R4-8P(C) (30m)	•Built-in port in FX1S, FX1N, FX2N, FX2NC or FX3 Series PLC or RS-422 type function extension board
Prepared by customer *1	•Q (Q mode)/QnA CPU serial communication unit 1,200 m maximum
GT10-C30R4-25P (3m) GT10-C100R4-25P (10m) GT10-C200R4-25P (20m) GT10-C300R4-25P (30m)	•Built-in port in QnA/A Series PLC
	•Built-in port in Q CPU Conversion cables (recommended products manufactured by Mitsubishi Electric Engineering Company Limited) : FA-CNV2402CBL(0.2m)/ FA-NV2405CBL(0.5m)
Prepared by customer *1	•Inverter*1 S500,A500,F500, V500,A700,F700,E700
Prepared by customer *1	•Microcomputer*1
Prepared by customer *1	•OMRON*1 CQM1H,CJ1,CP1,C200HS,C200H,C200Hα,CS1, C1000H,C2000H,CV500,CV1000,CV2000,CVM1

RS-232 (24 VDC Power supply)

24 VDC Power supply

RS-232

GT1030-LBD2   GT1030-LWD2
GT1030-LBDW2 GT1030-LWDW2

GT1020-LBD2   GT1020-LWD2
GT1020-LBDW2 GT1020-LWDW2

Connection Cables	Connectable PLCs
GT10-C30R2-6P(3m)	•Built-in port in Q CPU
Prepared by customer *1	•RS-232 type function extension board or special adapter for communication connected to FX1S, FX1N, FX2N, FX2NC or FX3 Series PLC 15 m maximum
Prepared by customer *1	•Q (Q mode)/QnA (S) CPU serial communication unit 15 m maximum
Prepared by customer *1	•Microcomputer*1 •Barcode reader*1
Prepared by customer *1	• OMRON*1 • Matsushita Electric *1 • TOSHIBA MACHINE*1 • Yasukawa Electric*1 • KEYENCE*1 • Allen-Bradley*1 • SIEMENS*1

GT1030 | GT1020

5 VDC Power supply by PLC

RS-422

5 VDC Power supply by PLC

RS-422

GT1020-LBL   GT1030-LBL
GT1020-LBLW   GT1030-LBLW
GT1020-LWL   GT1030-LWL
GT1020-LWLW   GT1030-LWLW

Connection Cables	Connectable PLCs
GT10-C10R4-8P(C) (1m) GT10-C30R4-8P(C) (3m)	•Built-in port in FX1S, FX1N, FX2N, FX2NC or FX3U Series PLC or RS-422 type function extension board

15

GT10 common specifications

General Specifications

Item	Specification					Item	Specification
Ambient operating temperature	Display area: 0 to +50ºC					Maximum voltage*5	500 VAC, 1 min (between all power terminals and ground)
	Excluding display area: 0 to +55ºC (horizontal layout) or 0 to +50ºC (vertical layout)					Insulation resistance*5	10 MΩ or more by 500 VDC insulation resistance tester (between all power terminals and ground)
Ambient storage temperature	-20 to +60ºC (Ambient operating/storage humidity*1 : 10 to 90% RH, no dew condensation)					Ambient atmosphere	Free from soot, corrosive gas, flammable gas, and high levels of conductive dusts
Vibration resistance		Frequency	Acceleration	Amplitude	Vibration testing repeated 10-times in the X, Y and Z planes.	Protective structure against environment	Equivalent to IP67f (JEM 1030) (front face) (This structure does not provide protection against all environmental conditions in your site.)
	Intermittent vibration	5 to 9 Hz		3.5mm		Grounding*5	Class D grounding (insulation resistance: 100Ω or less - When grounding is disabled, perform grounding to the panel.)
		9 to 150Hz	9.8m/s²			Others	Operating height above sea level*2 : 2,000 m or less, Installation location: Inside control panel, Over-voltage category*3 : II or lower, Pollution level*4 : II or lower, Cooling Method: Self-cooling
	Continuous vibration	5 to 9Hz		1.75mm			
		9 to 150Hz	4.9m/s²				
	In conformance to IEC 61131-2						
Impact resistance	In conformance to IEC 61131-2 (147 m/s², application period: 11ms, sine half-wave pulse, 3 times in each of X, Y and Z directions)						
Noise resistance	Noise voltage: 1,000 Vp-p, noise width: 1µs (Testing via a noise simulator whose noise frequency (range 30 to 100 Hz))						

*1 Wet bulb temperature: 39ºC or less
*2 Never use the GOT in an environment that is pressurized to an atmospheric pressure above the height of sea level as the GOT may mulfunction.
*3 The over-voltage category indicates the equipment is connected to a power distribution area between the public power distribution network and the machine site.
   Category II is applied to equipment supplied by a fixed power source where the resistance voltage is 2,500 V in equipment whose rating is 300V or less.
*4 This index indicates the level of conductive substances in the environment where the equipment is used.
   Level 2 is applied to environments where only non-conductive pollution is generated but temporary conductive states can occur through condensation of the environment.
*5 This cable cannot be used for GT1020-LBL(W).

GT1050/GT1055,GT1040/GT1045 specifications

Performance specifications

Item			GT1050-QBBD	GT1055-QSBD	GT1040-QBBD	GT1045-QSBD
Display area	Type		STN monochrome (white and blue) liquid crystal	STN color liquid crystal	STN monochrome (white and blue) liquid crystal	STN color liquid crystal
	Screen size/resolution		5.7-inch/QVGA:320W×240H dots		4.7-inch/QVGA:320W×240H dots	
	Display size (mm)		115(W)×86(H) (5.7-inch) horizontal display mode		96(W)×72(H) (4.7-inch) horizontal display mode	
	Number of displayed characters	For 16-dot font	40 half-width characters x 15 lines or 20 full-width characters x 15 lines when horizontal mounting			
		For 12-dot font	53 half-width characters x 20 lines or 26 full-width characters x 20 lines when horizontal mounting			
	View angle(in horizontal display mode)		Right/Left:45° UP:20°,Down:40°	Right/Left:55° UP:65°,Down:70°	Right/Left:45° UP:20°,Down:40°	Right/Left:50° UP:40°,Down:70°
	Contrast adjustment		16 step adjustment			
	Display colors		monochrome 16 scales	256 colors	monochrome 16 scales	256 colors
	Intensity		260[cd/m²]	380[cd/m²]	300[cd/m²]	150[cd/m²]
	Life		Approx.50,000hours (operating ambient temperature 25°C)			
Backlight (no replacement required)	Type		Cold-cathode fluorescent tube (not replaceable)		White LED (not needed)	
	Function		With backlight OFF detection function. Backlight off time and screen save time can be set.		Backlight off time and screen save time can be set.	
	Life		Approx.75,000 hours (Time for display intensity reaches 50% at operating ambient temperature of 25°C)		—	
Touch panel	Maximum number of touch keys		50 keys/screen (matrix consisting of 15 lines × 20 columns)			
	Minimum unit of touch key size		Min. 16 × 16 [dots] (per key)			
	Number of simultaneous touch points		Max. 2 points			
	Life		1,000,000 times or more			
Buzzer output (buzzer sound issued when a touch key is pressed)			Single tone (Long sound, short sound or no sound can be selected.)			
Memory	User memory		Built-in flash ROM [To store project data (3 MB or less), OS, alarm history and recipe data]			
	Life (number of times of writing)		100,000 times			
Battery			GT11-50BAT lithium type battery			
	Backed up data		Clock data, alarm history and recipe data			
	Life		Replacement cycle: 5 years (at ambient operating temperature of 25ºC)			
Built-in interface	RS-422 / RS-485	Type	RS-422 / RS-485, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps,Connector shape:D-sub 9-pin (female)			
		RS-485 Support hardware version	C or later		From first version	
		Application	Communication with connected devices			
	RS-232	Type	RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape:D-sub 9-pin (male)			
		Application	Communication with connected devices,connection to personal computer (project data upload/download, OS installation, transparent function)			
	USB	Type	USB (full speed: 12 Mbps), device 1ch, Connector shape:Mini-B(receptacle)			
		Application	Connection to personal computer (project data upload/download, OS installation, transparent function)			
	Memory board interface		GT10-50FMB (option)slot, Application:Data transfer			
Weight			0.7 [kg] (excl. fittings)		0.45 [kg] (excl. fittings)	
Applicable software package			GT Designer2 Version 2.101F or later, GT Works3 Version 1.10L or later			
Supply voltage			24 VDC(+10% to -15%),ripple voltage of 200mV or less			
Fuze (not replaceable)			1.0A			
Power consumption [ ]:with backlight off			9.36W or less (390mA/24 VDC) [4.32W or less (180mA/24 VDC)]	9.84W or less (410mA/24 VDC) [4.32W or less (180mA/24 VDC)]	3.6W or less (150mA/24 VDC) [2.9W or less (120mA/24 VDC)]	
Inrush current			15A or less (2ms, at max. load)			
Permissible instantaneous failure time			Up to 5ms			

About the accessible machinery (sequencer, a bar-code reader), please refer to a GOT1000 series connection manual.
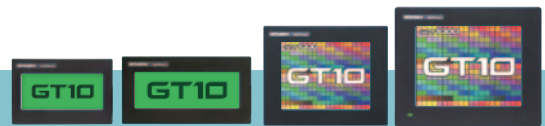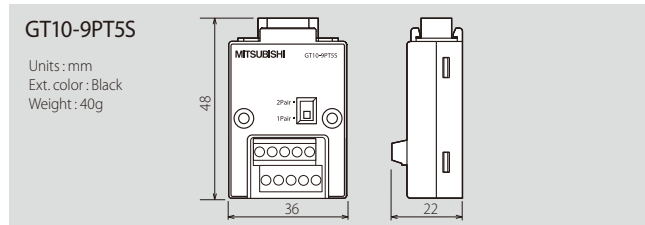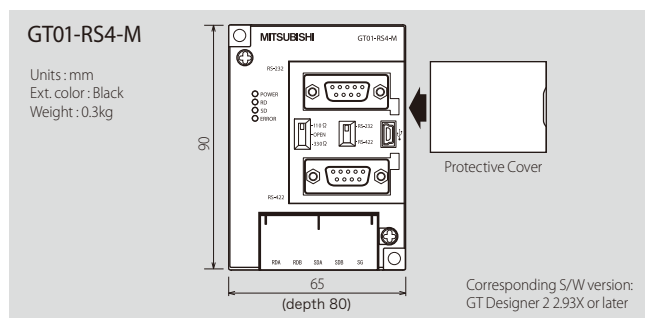
GT1030/GT1020 specifications

Performance specifications

Item		GT1030-★★★★★						GT1020-★★★★★					
		LBD / LWD	LBD2 / LWD2	LBL / LWL	LBDW / LWDW	LBDW2 / LWDW2	LBLW / LWLW	LBD / LWD	LBD2 / LWD2	LBL / LWL	LBDW / LWDW	LBDW2 / LWDW2	LBLW / LWLW
Display area	Type	STN monochrome (black and white) liquid crystal											
	Screen size/Resolution	4.5-inch/288 (W) x 96 (H) dots						3.7-inch/160 (W) x 64 (H) dots					
	Display size (mm)	109.42 (W) x 35.98 (H) (4.5-inch) in horizontal mounting						86.4 (W) x 34.5 (H) (3.7-inch) in horizontal mounting					
	Number of displayed haracters — For 16-dot font	36 half-width characters x 6 lines or 18 full-width characters x 6 lines when horizontal mounting						20 half-width characters x 4 lines or 10 full-width characters x 4 lines when horizontal mounting					
	For 12-dot font	48 half-width characters x 8 lines or 24 full-width characters x 8 lines when horizontal mounting						—					
	View angle	30 degrees leftward, 30 degrees rightward, 20 degrees upward and 30 degrees downward when horizontal mounting											
	Contrast adjustment	16 steps											
	Intensity	200[cd/m^2]			300[cd/m^2]			200[cd/m^2]			300[cd/m^2]		
	Life	Approx. 50,000 hours (Ambient operating temperature: 25°C), Guarantee: 1 year (time when contrast becomes 1/5 at ambient operating temperature of 25°C)											
Backlight (not requiring replacement)	Color	3-color LED (green, orange and red)			3-color LED (white, pink and red)			3-color LED (green, orange and red)			3-color LED (white, pink and red)		
	Brightness adjustment	8 steps						—					
	Function	Status (color and ON/flickering/OFF) can be controlled, and screen saving time can be set. Color and status of backlight can be controlled from PLC.											
Touch panel	Maximum number of touch keys	50/screen (matrix resistive film type, 18 x 6)						50/screen (analog resistive film type)					
	Minimum unit of touch key size	16 x 16 dots (per key)						2 x 2 dots (per key)					
	Simultaneous pressing (2 touch keys)	Permitted						Not permitted[*1]					
	Life	1,000,000 times or more (pressing force: 0.98 N or less)											
Buzzer output (buzzer sound issued when a touch key is pressed)		Single tone (Long sound, short sound or no sound.)											
Memory	User memory	Built-in flash ROM [To store project data (1.5 MB or less) and OS]						Built-in flash ROM [To store project data (512 kB or less), OS, alarm history and recipe data]					
	Life (number of times of writing)	100,000 times											
Battery		Built-in lithium battery GT11-50BAT to store clock data, alarm history and recipe data, replacement cycle: 5 years (at ambient operating temperature of 25°C)						—					
Built-in interface	For communication with PLC	Serial RS-422/RS-485	Serial RS-232	Serial RS-422	Serial RS-422/RS-485	Serial RS-232	Serial RS-422	Serial RS-422/RS-485	Serial RS-232	Serial RS-422	Serial RS-422/RS-485	Serial RS-232	Serial RS-422
		1ch, transmission speed: 115,200/57,600/38,400/19,200/9,600/4,800 bps, connector shape: 9-pin type connector terminal board											
	RS-485 Support hardware version	B or later						E or later					
	For communication with personal computer	RS-232 1ch, transmission speed: 115,200/57,600/38,400/19,200/9,600/4,800 bps, connector shape: 6-pin type mini DIN (female)											
Applicable software package		GT Designer2 Version 2.101F or later, GT Works3 Version 1.10L or later											
Supply voltage (24 V type has built-in fuse, and cannot be replaced.)		24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC	24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC	24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC	24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC	24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC	24 VDC (+10%, -15%) [Ripple voltage : 200 mV or less]	5 VDC (±5%) Supplied from PLC
Power consumption [ ]:With backlight off		2.2W or less (90mA / 24 VDC), [1.7W or less (70mA / 24 VDC)]	1.1W or less (220mA / 5 VDC), [0.6W or less (120mA / 5 VDC)]	2.2W or less (90mA/24 VDC), [1.7W or less (70mA / 24 VDC)]	1.1W or less (220mA / 5 VDC), [0.6W or less (120mA / 5 VDC)]	1.9W or less (80mA / 24 VDC), [1.2W or less (50mA / 24 VDC)]	1.1W or less (220mA / 5 VDC), [0.6W or less (120mA / 5 VDC)]	1.9W or less (80mA / 24 VDC), [1.2W or less (50mA / 24 VDC)]	1.1W or less (220mA / 5 VDC), [0.6W or less (120mA / 5 VDC)]				
Inrush current		18A or less (26.4 VDC) 1ms	—	18A or less (26.4 VDC) 1ms	—	13A or less (26.4 VDC) 1ms	—	13A or less (26.4 VDC) 1ms	—				
Permissible instantaneous failure time		Up to 5ms	—	Up to 5ms	—	Up to 5ms	—	Up to 5ms	—				

*1 If there is a key around the center of the pressed area when two or more keys are pressed, the key in the center may be activated.
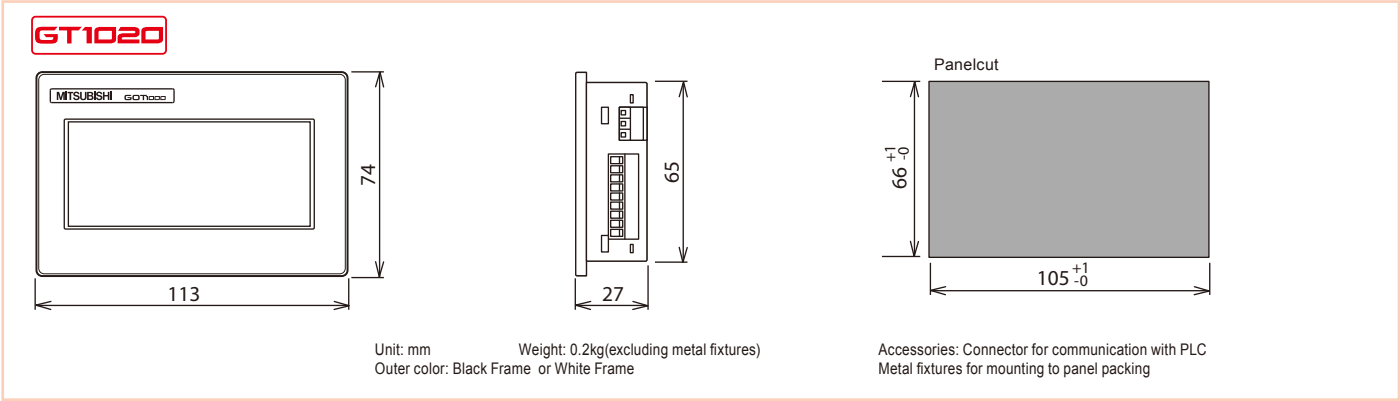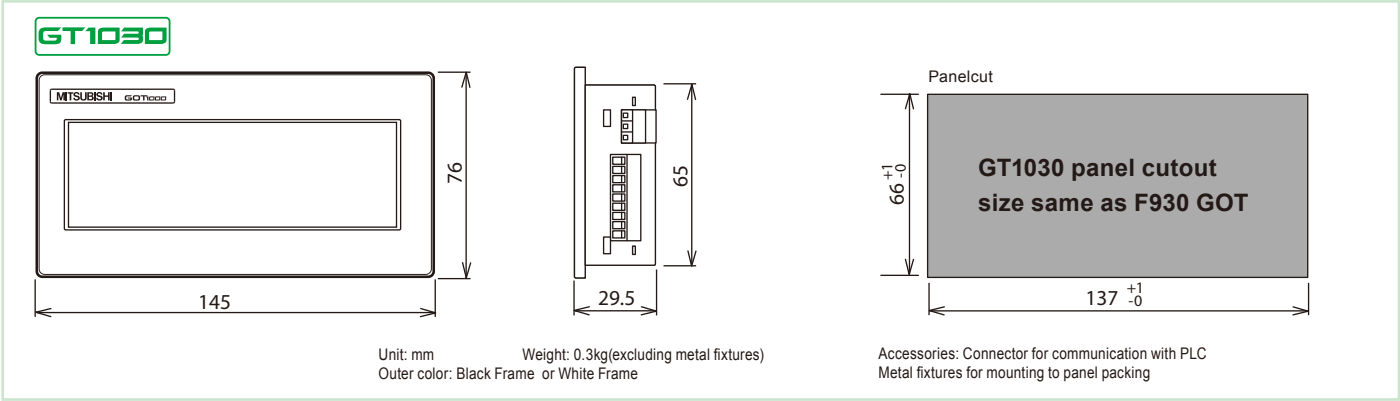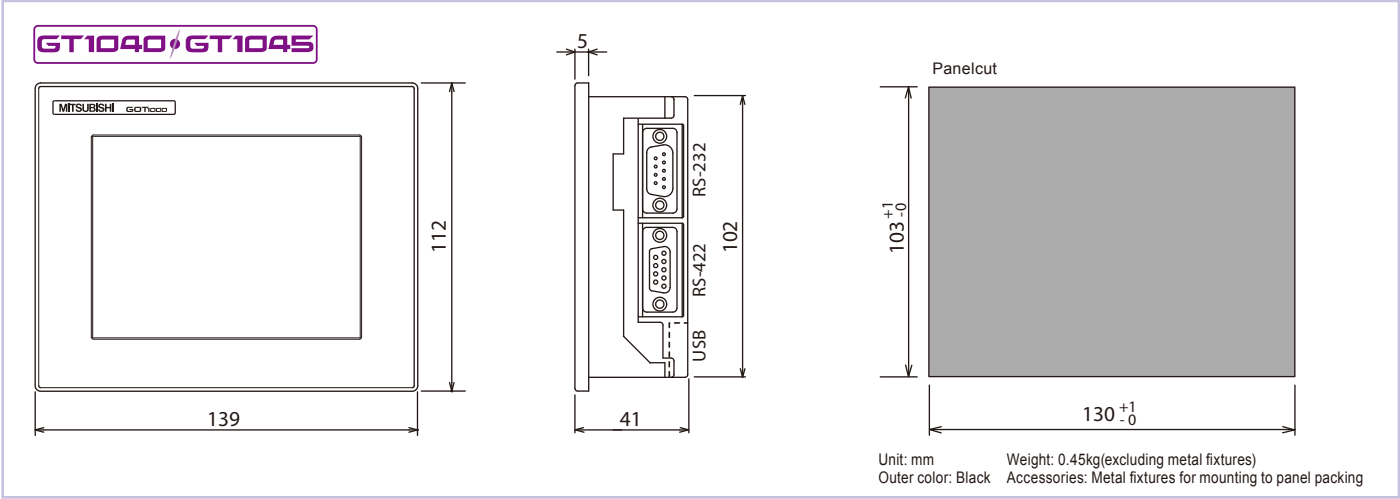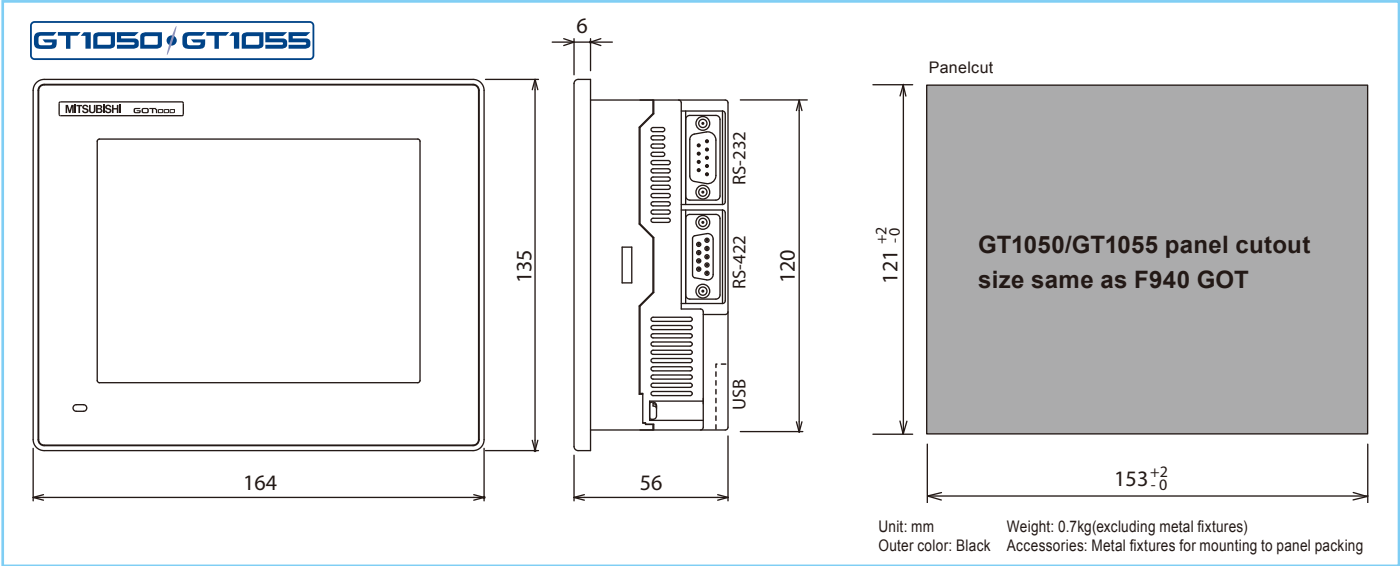
Serial Multi-drop Connection Unit specifications

External Dimensions

GT01-RS4-M

Units : mm
Ext. color : Black
Weight : 0.3kg

90
65
(depth 80)

Protective Cover

Corresponding S/W version: GT Designer 2 2.93X or later

GT10-9PT5S

Units : mm
Ext. color : Black
Weight : 40g

48
36
22

Performance specifications

Item		Specification
PLC Connection interface	Communication type	RS-422, RS-232 standard conformance 1ch (Simultaneous use impossible)
	Transmission speed	115.200 / 57.600 / 38.400 / 19.200 / 9.600 / 4.800 bps
	Compatible PLCs	MELSEC Series
	Connector shape	RS-422 D-sub 9 pin (female), RS-232 D-sub 9 pin (male)
GOT Connection interface	Communication type	Serial RS-485 standard conformance 1ch, internal terminal resistance
	Transmission channel type	Bidirectional half-duplex (1 pair wiring), Bidirectional full-duplex (2 pair wirings)
	Transmission speed	115.200 / 57.600 / 38.400 / 19.200 / 9.600 / 4.800 bps
	Communication length	500m (maximum for entire system)
	Connection number	Maximum 16 units
	Compatible GOTs	GOT1000 series are connectable.
	Connector shape	Terminal Block
PC connection interface		USB 2.0, Mini-B connector
Power supply / Supply voltage		24 VDC (+10%, -15%)
Fuse (not replaceable)		1A
Power consumption		3.36W or less (140mA /24 VDC)
Inrush current		14A or less (24.6 VDC, 1mA)
General specifications		Follows the GOT1000 series
Mounting method		DIN rail or screw mounting

Dimensions

GT1050 / GT1055

6

135

120

164

56

RS-232
RS-422
USB

Panelcut

121^{+2}_{-0}

153^{+2}_{-0}

GT1050/GT1055 panel cutout size same as F940 GOT

Unit: mm   Weight: 0.7kg(excluding metal fixtures)
Outer color: Black   Accessories: Metal fixtures for mounting to panel packing

GT1040 / GT1045

5

112

102

139

41

RS-232
RS-422
USB

Panelcut

103^{+1}_{-0}

130^{+1}_{-0}

Unit: mm   Weight: 0.45kg(excluding metal fixtures)
Outer color: Black   Accessories: Metal fixtures for mounting to panel packing

GT1030

76

65

145

29.5

Panelcut

66^{+1}_{-0}

137^{+1}_{-0}

GT1030 panel cutout size same as F930 GOT

Unit: mm   Weight: 0.3kg(excluding metal fixtures)
Outer color: Black Frame or White Frame

Accessories: Connector for communication with PLC
Metal fixtures for mounting to panel packing

GT1020

74

65

113

27

Panelcut

66^{+1}_{-0}

105^{+1}_{-0}

Unit: mm   Weight: 0.2kg(excluding metal fixtures)
Outer color: Black Frame or White Frame

Accessories: Connector for communication with PLC
Metal fixtures for mounting to panel packing

Main unit & Option parts

Division	Model name	Specification					CE		UL/cUL
	Type	Frame color	Display		Power supply	PLC connection/PC	EMC	LVD	
GT1050/GT1055 main unit	GT1055-QSBD	Black	5.7-inch (256 colors)		24 VDC	RS-422/RS-485, RS-232, USB	⊕	—	⊕
	GT1050-QBBD		5.7-inch (16 scales)			RS-422/RS-485, RS-232, USB	⊕	—	⊕
GT1040/GT1045 main unit	GT1045-QSBD		4.7-inch (256 colors)			RS-422/RS-485, RS-232, USB	⊕	—	⊕
	GT1040-QBBD		4.7-inch (16 scales)			RS-422/RS-485, RS-232, USB	⊕	—	⊕
Memory board	GT10-50FMB	For GT1050/GT1055,GT1040/GT1045					⊕	—	—
Connection cable	GT01-C10R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [1m]					—	—	—
	GT01-C30R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [3m]					—	—	—
	GT01-C100R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [10m]					—	—	—
	GT01-C200R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [20m]					—	—	—
	GT01-C300R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [30m]					—	—	—
	GT01-C30R4-25P	QnA/ACPU (D-SUB25 pin) direct connection RS-422 cable [3m]					—	—	—
	GT01-C100R4-25P	QnA/ACPU (D-SUB25 pin) direct connection RS-422 cable [10m]					—	—	—
	GT01-C200R4-25P	QnA/ACPU (D-SUB25 pin) direct connection RS-422 cable [20m]					—	—	—
	GT01-C300R4-25P	QnA/ACPU (D-SUB25 pin) direct connection RS-422 cable [30m]					—	—	—
	GT01-C30R2-6P	QCPU (MINI-DIN 6 pin) direct connection RS-232 cable [3m]					—	—	—
	GT01-C30R2-9S	FXCPUcommunication boards(D-SUB 9 pin) connection RS-232 cable[3m]					—	—	—
Data Transfer cable	GT01-C30R2-9S	PC (D-SUB 9 pin: female)<=>GOT (D-SUB 9 pin: female) connection RS-232 cable [3m]					—	—	—
	GT09-C30USB-5P	PC (USB-Atype)<=>GOT (USB-MINI-Btype) connection USB cable [3m]					—	—	—
GT1030 main unit	GT1030-LBD	Black	4.5-inch Monochrome (black/white)	3-colors (green/orange/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1030-LBD2					RS-232, RS-232	⊕	—	⊕
	GT1030-LBL				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1030-LBDW			3-colors (white/pink/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1030-LBDW2					RS-232, RS-232	⊕	—	⊕
	GT1030-LBLW				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1030-LWD	White	4.5-inch Monochrome (black/white)	3-colors (green/orange/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1030-LWD2					RS-232, RS-232	⊕	—	⊕
	GT1030-LWL				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1030-LWDW			3-colors (white/pink/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1030-LWDW2					RS-232, RS-232	⊕	—	⊕
	GT1030-LWLW				5 VDC	RS-422, RS-232	⊕	—	⊕
GT1020 main unit	GT1020-LBD	Black	3.7-inch Monochrome (black/white)	3-colors (green/orange/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1020-LBD2					RS-232, RS-232	⊕	—	⊕
	GT1020-LBL				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1020-LBDW			3-colors (white/pink/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1020-LBDW2					RS-232, RS-232	⊕	—	⊕
	GT1020-LBLW				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1020-LWD	White	3.7-inch Monochrome (black/white)	3-colors (green/orange/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1020-LWD2					RS-232, RS-232	⊕	—	⊕
	GT1020-LWL				5 VDC	RS-422, RS-232	⊕	—	⊕
	GT1020-LWDW			3-colors (white/pink/red)	24 VDC	RS-422/RS-485, RS-232	⊕	—	⊕
	GT1020-LWDW2					RS-232, RS-232	⊕	—	⊕
	GT1020-LWLW				5 VDC	RS-422, RS-232	⊕	—	⊕
Memory loader	GT10-LDR	For GT1030,GT1020 (Power supply not needed)					—	—	—
Connection cable	GT10-C10R4-8P	FXCPU (MINI-DIN 8 pin) direct connectionRS-422 cable [1m]					—	—	—
	GT10-C30R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [3m]					—	—	—
	GT10-C100R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [10m]					—	—	—
	GT10-C200R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [20m]					—	—	—
	GT10-C300R4-8P	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [30m]					—	—	—
	GT10-C10R4-8PC	FXCPU (MINI-DIN 8 pin) direct connectionRS-422 cable [1m] with connector					—	—	—
	GT10-C30R4-8PC	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [3m] with connector					—	—	—
	GT10-C100R4-8PC	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [10m] with connector					—	—	—
	GT10-C200R4-8PC	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [20m] with connector					—	—	—
	GT10-C300R4-8PC	FXCPU (MINI-DIN 8 pin) direct connection RS-422 cable [30m] with connector					—	—	—
	GT10-C30R4-25P	QnA/ACPU (D-SUB 25 pin) direct connection RS-422 cable [3m]					—	—	—
	GT10-C100R4-25P	QnA/ACPU (D-SUB 25 pin) direct connection RS-422 cable [10m]					—	—	—
	GT10-C200R4-25P	QnA/ACPU (D-SUB 25 pin) direct connection RS-422 cable [20m]					—	—	—
	GT10-C300R4-25P	QnA/ACPU (D-SUB 25 pin) direct connection RS-422 cable [30m]					—	—	—
	GT10-C30R2-6P	QCPU (MINI-DIN 6 pin) direct connection RS-232 cable [3m]					—	—	—
Serial Multi-drop connection unit	GT01-RS4-M	For PLC : RS-422 or RS-232, For PC : USB For GOT1000 : RS-485 (Maximum 16units & 500m length)					⊕	—	⊕
Connection adapter	GT10-9PT5S	For GT105□, GT104□. RS-485 Easy wiring adapter					—	—	——
Data Transfer cable	GT01-C30R2-6P	PC (D-SUB 9 pin: female)<=>GOT (MINI-DIN 6 pin: female) connection RS-232 cable [3m]					—	—	—
	RS-232/USB adapter	For GT1030,GT1020 (software:GT Designer2,GX Developer)					—	—	—
	GT10-RS2TUSB-5S	Sold separately USB cable:GT09-C30USB-5P [3m] (Mitsubishi Electric System Sarvis CO.LTD)							
USB port extension	GT10-C10USB-5S	For GT105□,GT104□. Waterproof USB extension port of panel mount type					—	—	—
Connection cable for Bar code	GT10-CO2H-6PT9P	Barcode reader (D-SUB 9 pin: female) GOT (MINI-DIN 6 pin: female) connection RS-232 cable [0.3m]					—	—	—

Options

| Division	Model name	Specifications		
Protective sheet	GT10-50PS□□	For GT1050 / GT1055.	5 sheets	□□ : GB(Antiglare), CB(Clear), GW(Antiglare [frame: white]), CW(Clear [frame: white])
	GT10-40PS□□	For GT1040 / GT1045.		
	GT10-30PS□□	For GT1030.		
	GT10-20PS□□	For GT1020.		
Oil resistant cover*	GT05-50PCO	For GT1050 /GT1055		
	GT10-30PCO	For GT1030.		
	GT10-20PCO	For GT1020.		
Manuals	GT10-U-E	GT10 User's Manual		
Battery	GT11-50BAT	Battery for backup of clock data,(Apare parts for GT1050,GT1055,GT1030)		

*:Check it the oil resistant cover can be used in the actual environment before use with the manual.

A tradition in refining excellence.

The ground breaking FX3 series is the 3rd generation of compact controller produced by Mitsubishi Electric. Coming from a heritage of pioneering compact controllers, the FX3 series continues to build on its cornerstone concepts: ease of use, flexibility, affordability, and customer confidence.
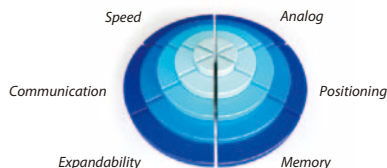
FX3G

A basic model of the 3rd generation compact PLC

Speed · Analog · Communication · Positioning · Expandability · Memory
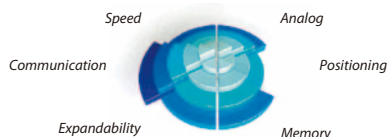
Controllable I/O: 14 - 256 points
(With CC-Link remote I/O's)
(Main Unit I/O: 14/24/40/60 points)

FX3U

Flagship model of the 3rd generation compact PLC

Speed · Analog · Communication · Positioning · Expandability · Memory

Controllable I/O: 16 - 384 points
(With CC-Link remote I/O's)
(Main Unit I/O: 16/32/48/64/80/128 points)

FX3UC

Slim fit model of the 3rd generation compact PLC

Speed · Analog · Communication · Positioning · Expandability · Memory
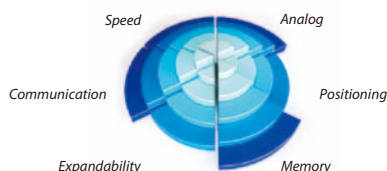
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(with CC-Link remote I/O's)
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