



colorful

smart

compact

fit

GRAPHIC OPERATION TERMINAL

GOT1000

NEW micro GOT

GT1020-LBD/GT1020-LBD2/GT1020-LBL

GOT1020 product explanation

Contents

- 1. GOT11 product range**
- 2. GT1020 Advantages**
- 3. Functionality**
- 4. Applications**

1. GOT1000 Series

GT1020-LBD
GT1020-LBD2
GT1020-LBL

3.7-inch

5.7-inch

8.4-inch to 15-inch

GT11

An entry-level HMI range that provides an array of easy-to-use functions for stand alone use



5.7-inch / 8.4-inch / 10.4-inch / 12.1-inch / 15-inch

GT15

A progressive HMI range for a wide range of stand alone and network applications

Performance and functionality

NEW



GT1020-LBD 24V DC
GT1020-LBD2 24V DC
GT1020-LBL 5V DC

160x64 Black and White 2 tones

3-color backlight



GT1155-QSBD 24V DC

QVGA 320x240 256 Colors



GT1155HS-QSBD 24V DC

QVGA 320x240 256 Colors

GT1150-QLBD 24V DC

QVGA 320x240 Black and White 16 tones

GT1150HS-QLBD 24V DC

QVGA 320x240 Black and White 16 tones

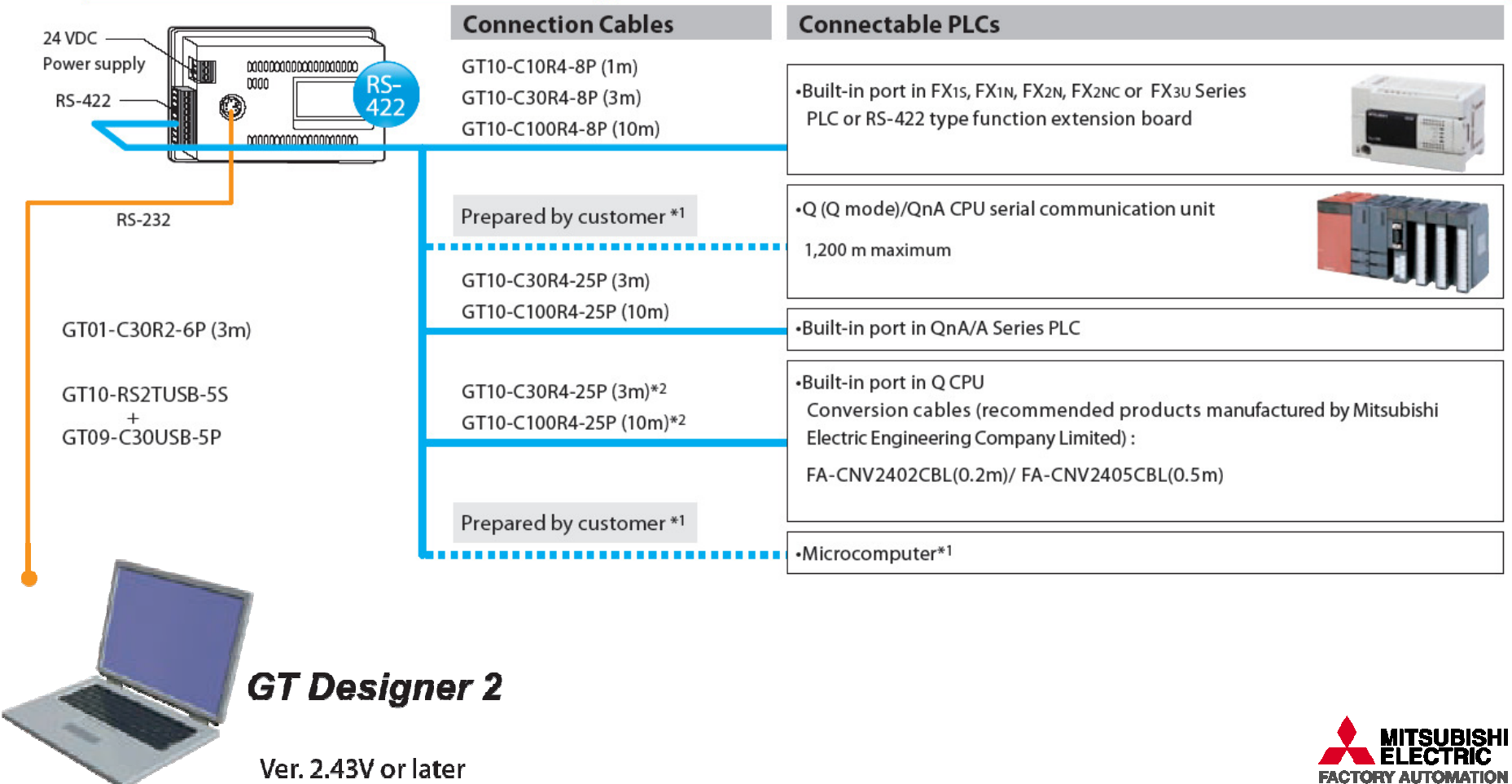
Panel size

A consistent concept of data visualization



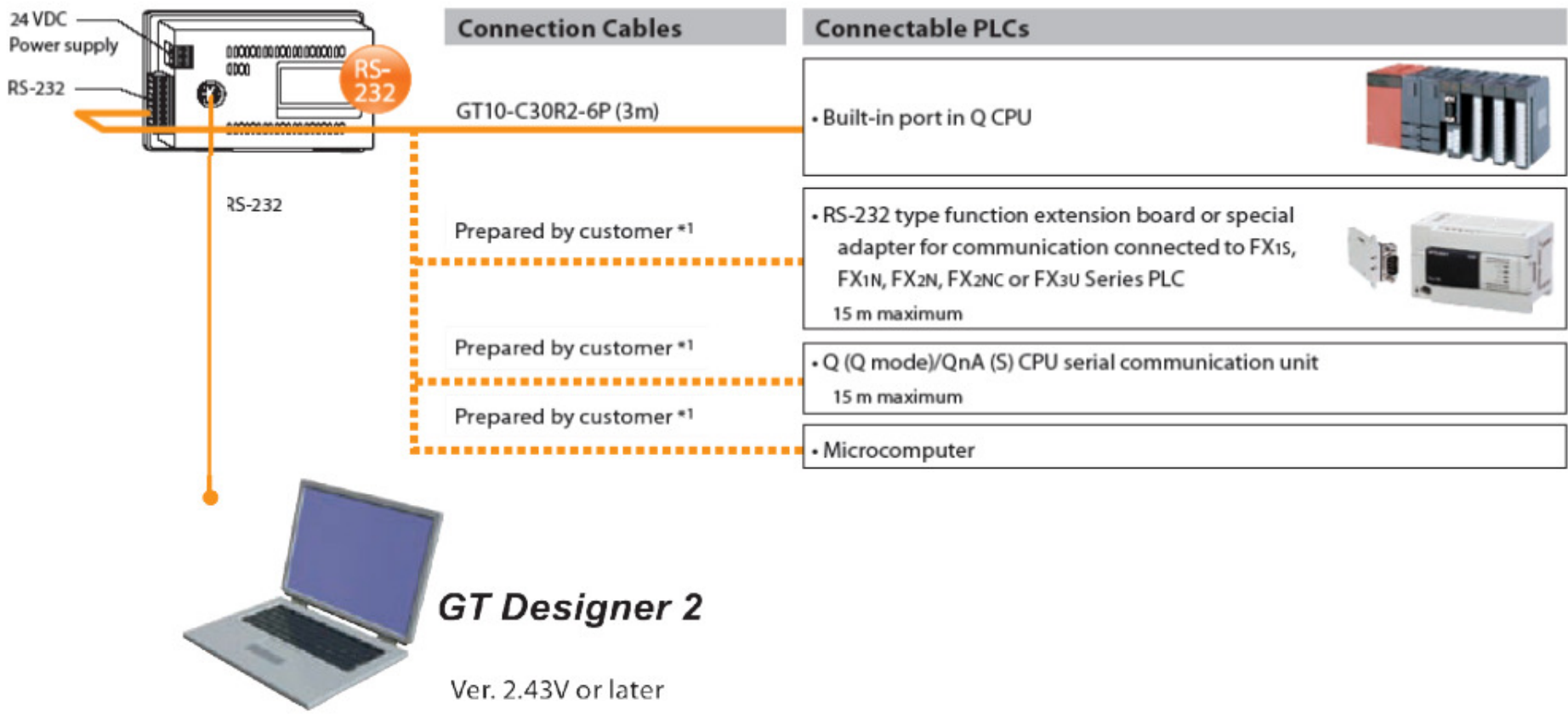
1-3. GT1020-LBD (RS-422) system configuration

GT1020-LBD (RS-422 Connection Type)



1-3. GT1020-LBD2 (RS-232) system configuration

GT1020-LBD2 (RS-232 Connection Type)



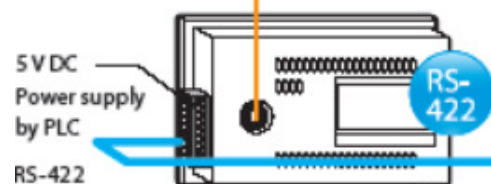
1-4. GT1020-LBL (RS-422) system configuration



GT Designer 2

Ver. 2.43V or later

GT1020-LBL (RS-422 Connection Type / 5V DC Power supply from FX series PLC)



Connection Cables

GT10-C10R4-8P (1m)
GT10-C30R4-8P (3m)

Connectable PLCs

•Built-in port in FX1S, FX1N, FX2N, FX2NC or FX3U Series
PLC or RS-422 type function extension board



2. GT1020 Advantages

Performance with flexibility.
The first choice for super-small HMI's.

4 features

FEATURE 1

Compact body with
high information
density

FEATURE 2

Flexible 3-color
LED backlight for
smart visualization

FEATURE 3

Highly flexible
screen layout

FEATURE 4

Wide range of
fonts and
languages



2-1. High Information Density



- Versatile state information with 3 color back light.
- 3.7" liquid crystal display with 160X64 dots allows pictures.
(200cd/m²)*¹ brightness offers clear imaging even in lighted environments.
- Minimal depth with 27mm and IP67 protected.

Featuring a bright 3.7-inch STN black-and-white liquid crystal display

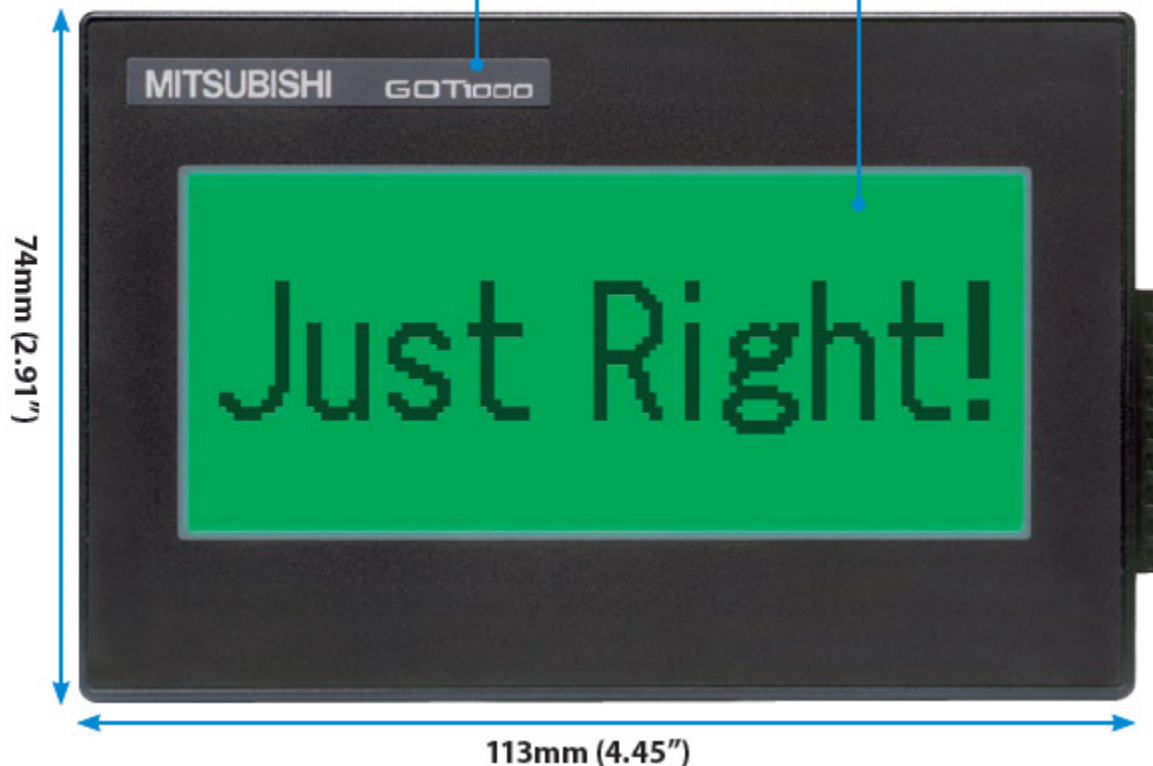
2-1. Compact Body

Full size

Logo label (removable)

Touch-screen display

◀ **160 dots wide** ▶



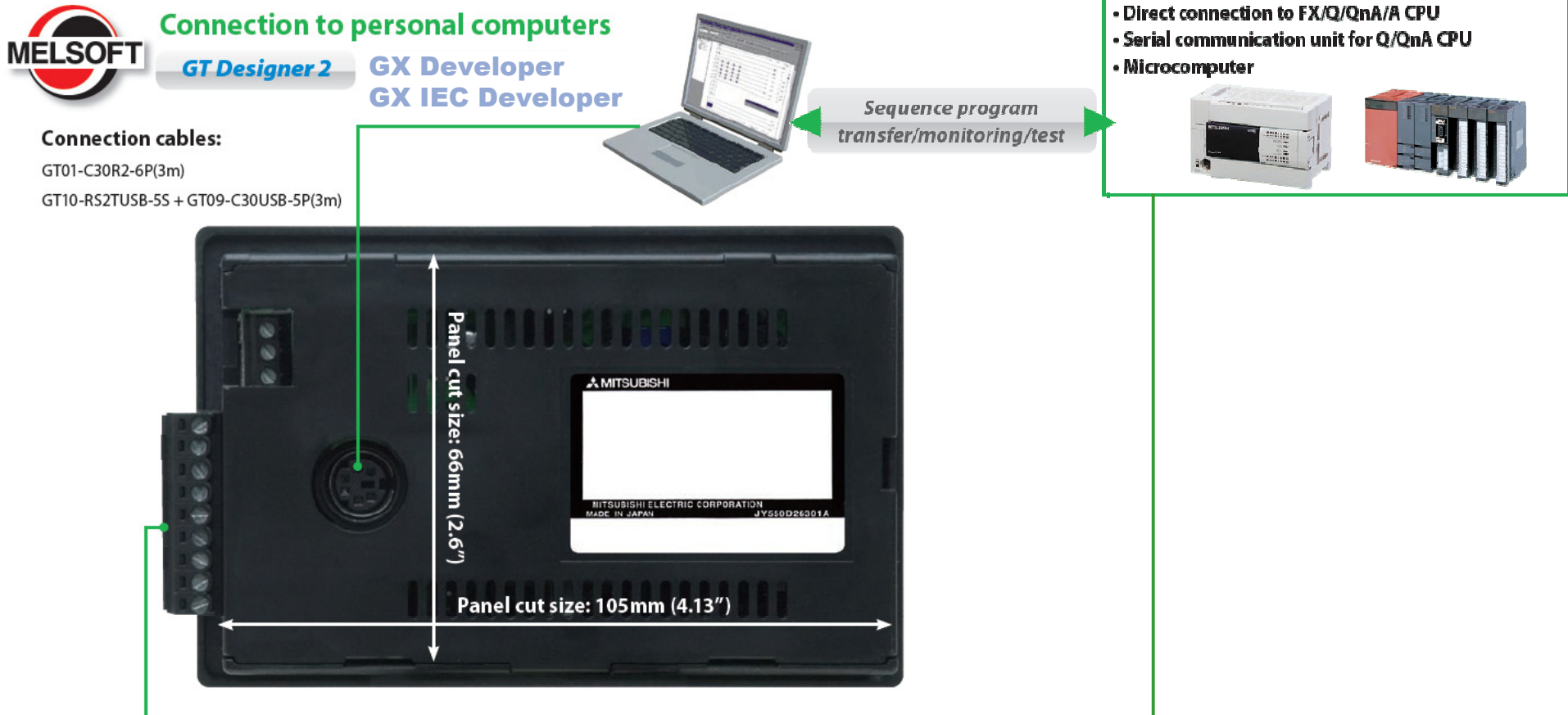
24 VDC
Power terminal

- GT1020-LBD
- GT1020-LBD2

Connector for
communication
with PLC (detachable)

- GT1020-LBD
RS-422 connector
- GT1020-LBD2
RS-232 connector
- GT1020-LBL
RS-422 connector
(5V DC Power terminal)

2-1. Compact Body

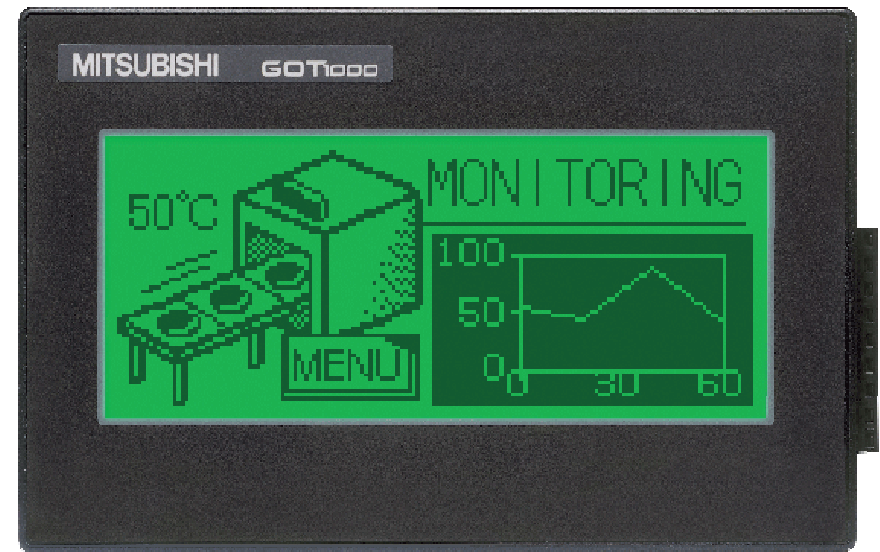


Straight Forward Connectivity

2-2. 3-Color Backlight

3 backlight color options **green/orange/red** are available

- Flashing screens and color options can be configured for each screen.
- System statuses from the PLC can change screen colors and turn the backlight ON and OFF as desired.



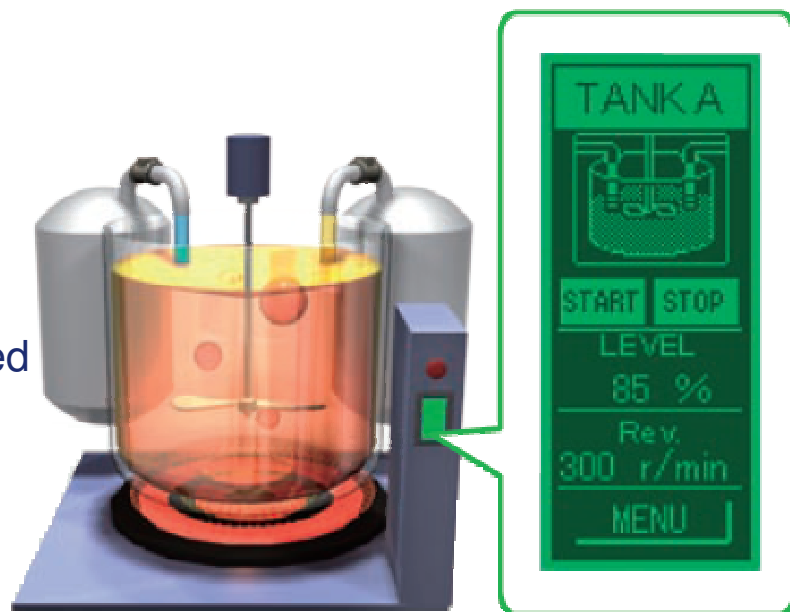
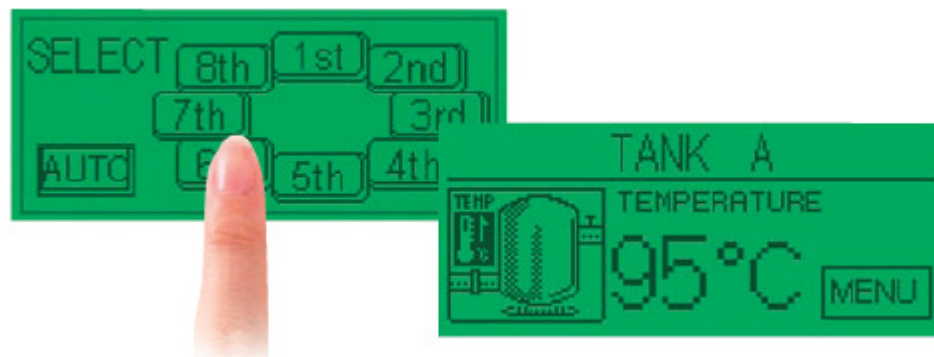
2-3. Flexible Screen Layout

Analog Touch Panel

High screen resolution allows touch keys to be placed with up to 1 pixel accuracy.

Flexible placement of parts

Touch keys and other objects can be freely placed to effectively utilize the limited display area.



Versatile Mounting
Horizontal and vertical mounting options are available.

- Minimum unit of touch key size: 2x2 dots
- Maximum number of touch keys: 50/screen

2-4. Selectable Character Sets

Characters from all over the world for people all over the world!
The GT1020 can display a number of languages for a variety of countries and areas.

Compatible with
Unicode 2.1



2-4. Choose Your Font!

A variety of fonts is available
 Fonts include the standard type set and the windows type set

When windows fonts are selected, *italic*, underlined and *underlined italic* are also available.

Font type	Size	Font name
Standard*	6 x 8 dots	Gothic/Mincho
	16 dots	
High quality	12 dots	Gothic/Mincho
	16 dots	
True type		Gothic/Mincho
Windows® type		All**

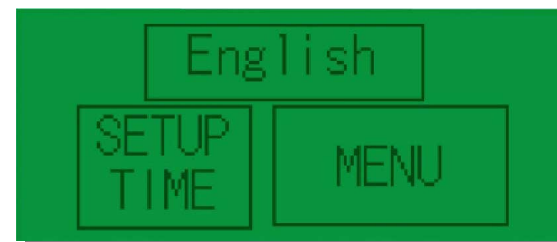
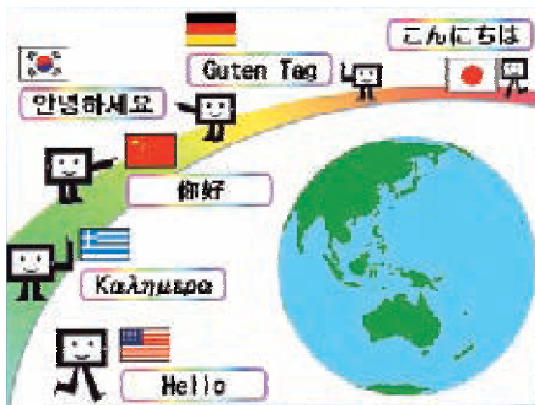
*Standard fonts cannot be changed
 **For windows fonts, restrictions apply.
 Please check manual for details.



2-4. Switch Base Languages

Easily switch between language settings
Language settings can be switched while sustaining the font style.

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



English



Japanese

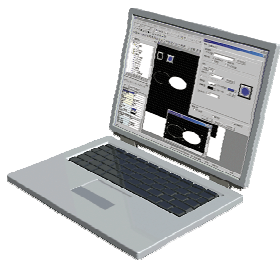
Accommodates production site globalization

2. Alternative Start-up Screen

Customized start-up screen

- An original start-up screen can be set with GT Designer2 to be displayed every time the GT1020 boots up.

Set a customized screen
with GT Designer2



Boot the
GT1020



* Bitmap images can be used

2. Transparent Mode

PC $\longleftrightarrow$ GOT $\longleftrightarrow$ PLC

- Through the personal computer communication connector*¹ at the rear of the GOT, users can debug, start and adjust PLC sequence programs.



*1 When two GT1020 units are connected, this connector is available to communicate with the second GT1020 unit.

2. GOT1000 Useful Features

Recipe function included as standard

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 the PLC.

Communication driver

- 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 or microcomputer board, you have to install the required communication driver available from GT Designer2 software.

Other

- Screen saving function and alarm function

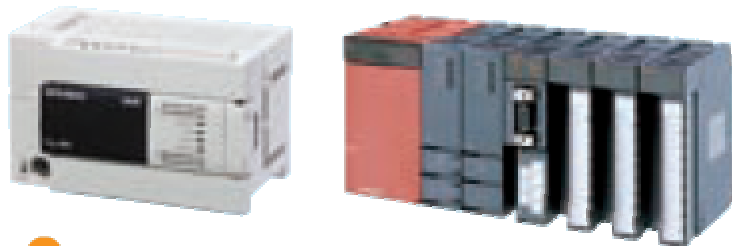


2. Multi-unit connection

High cost performance

- Two GT1020s can be connected using one cable only.

Direct connection to FX/Q/QnA/A CPU



1st unit

GT1020-LBD/LBD2



2nd unit

GT1020-LBD/LBD2



**RS422 or RS232
connection**

**RS232 connection,
3m max.**

* When two GT1020 units are connected, transparent functionality is disabled.

2. Trouble free

Maintenance Free

- **The GT1020 uses a LED backlight for high reliability that does not require replacement.**
- **The GT1020 is equipped with a Flash ROM, therefore it does not require a battery.**
- **An optional protective cover is available.**



2. Easy to Use Software

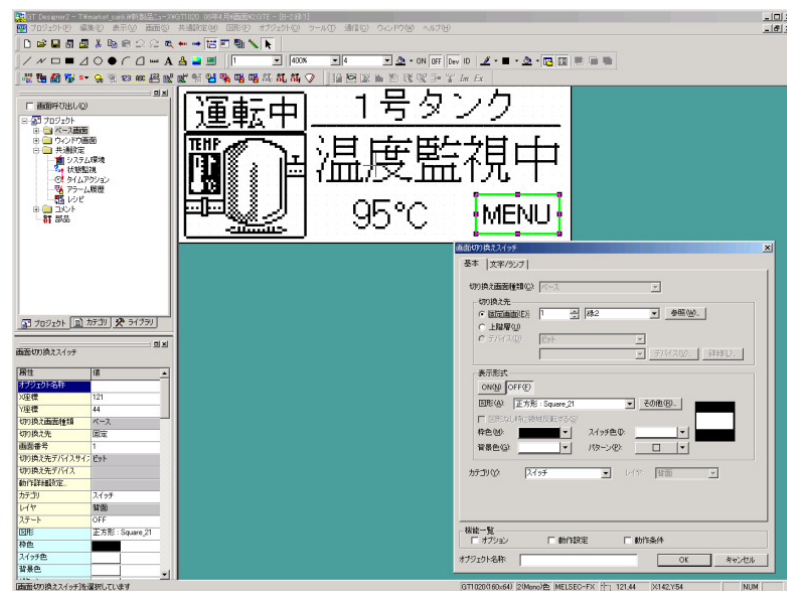
Automatic Startup Wizard Included

- GT Designer2 includes an automatic startup wizard to easily set up basic requirements.
- The GT1020 is compatible with GT Designer2 Ver.2.43V or later.



MELSOFT MITSUBISHI TOTAL FA SOLUTION

GT Designer2
統合画面開発ソフトウェア



3. Functionality

**GT1020-LBD
GT1020-LBD2
GT1020-LBL**

Features
• Screen : 1,024 base screens max + 3 key windows max • Font : Gothic (size: 6 x 8 dots or 16 dots), high quality, true type and Windows fonts • Screen switching function, screen call, language switching function, password protection, system information, connected equipment setting and startup logo
Figure drawing
Straight line, continuous straight line, rectangle, polygon, chamfered rectangle, circle, ellipse, circular arc, elliptical arc, circular sector, elliptical sector, scale display, painting and image type (BMP/DXF)
Object
Comment registration (basic comment and comment group), object registration, data calculation function, offset function, security function, lamp display, touch key, numerical display and input, ASCII display, clock display (linked to PLC clock), comment display, alarm list, alarm history, object display, panel meter, trend graph, line graph, bar graph, state monitoring function, recipe function (4,000 points) and time action function

4. Industrial Applications

GT1020-LBD
GT1020-LBD2
GT1020-LBL

GT1020 for the FA Industry

Standard control for basic applications
From small packaging machines, to the simple control needed in food and manufacturing industries, the GT1020 is a perfect fit.



FACTORY AUTOMATION



4. Universal Applications

GT1020-LBD
GT1020-LBD2
GT1020-LBL

GT1020 for many Industries

Wide range of possibilities

The flexibility of the GT1020 can be extended to universal applications, where end-users are not always factory workers.



The GT1020 could easily be used in hospitals, museums, training schools and airports.

UNIVERSAL APPLICATION

For improving public services, the GT1020 can be used in a range of public facilities.



Public Facilities



The GT1020 offers a convenient interface for customers and employees in the food service and retail industries.

Small, Flexible, and Easy to Use



GT1020