

GOT2000

Graphic Operation Terminal

GOT2000 - Designed to meet your industrial automation needs.

GT27 Model

5.7 inch 8.4 inch 10.4 inch 12.1 inch 15 inch

Advanced model with multi-touch gesture functions



GT25 Model

8.4 inch 10.4 inch 12.1 inch

High performance, cost efficient, mid-range model



GT23 Model

8.4 inch 10.4 inch

Unchallenged cost performance



GT21 Model

3.8 inch

Compact model with basic functions



Comparison table for major functions of GT21

Category	Function name	NEW	
		GT21	GT10
Screen design	Figure	●	●
	Logo text	●	●
	Touch switch	●	●
	Lamp	●	●
	Numerical display, Numerical input	●	●
	Text display, Text input	●	●
	Date display, Time display	●	●
	Comment display	●	●
	Parts display	● ^{*1}	●
	Parts movement	● ^{*2}	●
	Historical data list display	● ^{*3}	●
	Simple alarm display	●	●
	Alarm display (user)	● ^{*4}	● ⁺³
	Level	●	●
	Panel meter	●	●
Line graph	●	●	
Trend graph	●	●	
Bar graph	●	●	
Statistics bar graph	●	●	
Statistics pie graph	●	●	
Scatter graph	●	●	
Historical trend graph	● ^{*5}	●	
Logging	● ^{*6}	●	
Recipe	● ^{*7}	● ⁺⁴	
Device data transfer	●	●	
Trigger action	●	●	
Time action	●	●	
Functions performed in background of GOT	Hard copy	● ⁺¹⁰	●
	File output	● ⁺¹⁰	●
	Serial printer output	● ⁺¹⁰	●
Project/screen script	●	●	

Category	Function name	NEW		
		GT21	GT10	
Screen design	Barcode function	● ^{*5}	●	
	RFID function	● ^{*5}	●	
	Report function (Serial printer output)	● ^{*5}	●	
	Base screen	●	●	
	Overlap window	●	●	
	Superimpose window	●	●	
	Dialog window	●	●	
	Key window	●	●	
	Language switching	●	●	
	System information	●	●	
GOT functions	Operator authentication	● ^{*5}	●	
	Startup logo	●	●	
	FA transparent	●	●	
	Backup/Restore	● ^{*14}	●	
	Multi-channel function	2ch ^{*8}	●	
	Station No. switching	●	●	
	Vertical display	●	●	
	Device monitor	●	●	
	Debug functions	Barcode function	● ^{*5}	●
		RFID function	● ^{*5}	●
Report function (Serial printer output)		● ^{*5}	●	
Base screen		●	●	
Overlap window		●	●	
Superimpose window		●	●	
Dialog window		●	●	
Key window		●	●	
Language switching		●	●	
System information		●	●	

*1: The separately sold SD card unit (GT21-03SDCCD) and SD card are required.
 *2: The separately sold SD card unit (GT21-03SDCCD) and SD card may be required depending on usage.
 *3: Advanced alarms are not supported.
 *4: Advanced recipes are not supported.
 *5: Not supported in GT2103-PMBLS.
 Refer to each manual for the details of these and other functions.

Refer to the GOT2000 Series General Catalog for details.

L(NA)08270ENG

Graphic Operation Terminal

■ Power supply specifications
 (The general specifications are same as those of the GOT2000 Series. Refer to the GOT2000 Series General Catalog.)

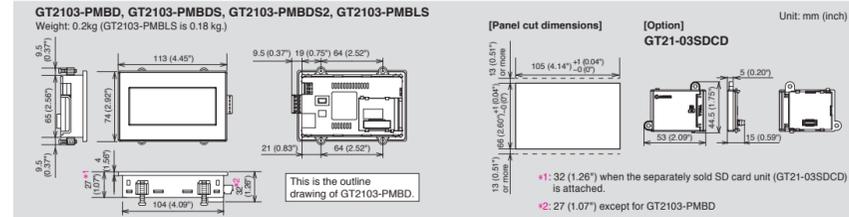
Item	Specifications			
	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS
Input power supply voltage	24 V DC (+10%, -15%)			
Power consumption	Under the maximum load	2.6 W or less	1.9 W or less	2.2 W or less
	At backlight off	2.0 W	1.3 W	1.6 W
Inrush current	30 A or less (1 ms, 25 °C, at the maximum load)			
Permissible instantaneous power failure time	Within 5 ms			

■ Performance specifications

Item	Specifications			
	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS
Display device	TFT monochrome display			
Screen size	3.8"			
Resolution	320 × 128 dots			
Display size	89.0 (3.51) (W) × 35.6 (1.41) (H) mm (inch)			
Displayed number of characters	16-dot standard font: 20 characters × 8 lines (two-byte characters)/ 12-dot standard font: 26 characters × 10 lines (two-byte characters)			
Display color	Monochrome (black and white) 32 scales			
Brightness Adjustment	32 levels			
Backlight	5 colors LED (white, green, pink, orange and red) (Not replaceable)			
Backlight life	Approx. 50000 h (operating ambient temperature: 25 °C, display intensity: 50%)			
Type	Analog resistive film			
Key size	Minimum 2 × 2 dots (per a key)			
Simultaneous press	Simultaneous press prohibited (only 1 point can be pressed)			
Life	1 million times or more (Operating force: 0.98 N or less)			
User memory capacity	Memory for storage (ROM): 3 MB			
Life (number of write times)	100000 times			
Built-in interface	RS-232 (rear face)	1 channel Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: MINI-DIN6-pin (female)		—
	RS-232 (side face)	1 channel Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: terminal block 9-pin		—
Built-in interface	RS-422/485	1 channel Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: terminal block 5-pin	1 channel Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: terminal block 9-pin	—
	RS-422	—	1 channel Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: terminal block 9-pin	—
Built-in interface	Ethernet	1 channel Data transfer method: 10BASE-T/100BASE-TX Connector shape: RJ-45 (modular jack)		—
	USB (Device)	1 channel Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B		—
Buzzer output	Single tone (tone length adjustable)			
Protective structure	Outside the enclosure: IP67F Inside the enclosure: IP2X			
Compatible software package	GT Works3 Version 1.112S or later		GT Works3 Version 1.119Z or later	

*1: It is necessary to mount the separately sold SD card unit (GT21-03SDCCD).

■ External dimensions



▲ Safety Warning

• To ensure proper use of the products in this document, please be sure to read the instruction manual prior to use.

Registration

- Ethernet is a registered trademark of Xerox Corporation in the United States.
- MODBUS is a registered trademark of Schneider Electric SA.
- The SD and SDHC logos are trademarks or registered trademarks of SD-3C, LLC.
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MITSUBISHI ELECTRIC CORPORATION

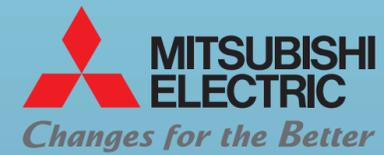
HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
<http://Global.MitsubishiElectric.com>

■ Product specifications

Product name	Model name	Contents, Specifications	
Main unit	GT2103-PMBD	3.8" TFT Monochrome LCD	Ethernet, RS-422/485
	GT2103-PMBDS	(black/white)	RS-232, RS-422/485
	GT2103-PMBDS2	32 gray scales	RS-232 × 2 ch
Protective sheet	GT2103-PMBLS	Surface treatment: anti-glare. Sheet color: transparent. USB environmental protection cover area: closed. Number of sheets included in a set: 5	RS-422 (dedicated for FX connection)
	GT21-03PSC-UC	Surface treatment: clear. Sheet color: transparent. USB environmental protection cover area: closed. Number of sheets included in a set: 5	—
RS-422 conversion cable	FA-CNV2402CBL	Between Q00CPU/L025CPU-(P) and RS-422 cable (GT01-CJ[R4-25P, GT10-CJ[R4-25P, GT21-CJ[R4-25P5])	0.2 m
	FA-CNV2405CBL	Between LEADP-R2 and RS-422 cable (GT01-CJ[R4-25P, GT10-CJ[R4-25P, GT21-CJ[R4-25P5])	0.5 m
RS-422 cable [Dedicated to the serial type]	GT10-C30R4-25P	Between Q00CPU/motion controller CPU (A series)/FXCPU and GOT	3 m
	GT10-C100R4-25P	Between RS-422 conversion cable (FA-CNV[C]BL) and GOT	10 m
	GT10-C200R4-25P	Between serial communication module and GOT	20 m
	GT10-C300R4-25P	Between peripheral connection module (AJ65BT-G4-S3) and GOT	30 m
	GT10-C10R4-8P	Between FXCPU and GOT	1 m
	GT10-C100R4-8P	Between FXCPU communication expansion board and GOT	10 m
	GT10-C200R4-8P	Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)	20 m
	GT10-C300R4-8P	Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)	30 m
	GT10-C10R4-8P*	Between FXCPU and GOT	1 m
	GT10-C100R4-8P*	Between FXCPU communication expansion board and GOT	10 m
RS-422 cable [Dedicated to the Ethernet type]	GT10-C10R4-8PC	Between FXCPU and GOT	1 m
	GT10-C30R4-8PC	Between FXCPU and GOT	3 m
	GT10-C100R4-8PC	Between FXCPU communication expansion board and GOT	10 m
	GT10-C200R4-8PC	Between peripheral connection module (AJ65BT-G4-S3) and GOT	20 m
	GT10-C300R4-8PC	Between peripheral connection module (AJ65BT-G4-S3) and GOT	30 m
	GT21-C30R4-25P5**	Between Q00CPU and GOT	3 m
	GT21-C100R4-25P5**	Between RS-422 conversion cable (FA-CNV[C]BL) and GOT	10 m
	GT21-C200R4-25P5**	Between serial communication module and GOT	20 m
	GT21-C300R4-25P5**	Between peripheral connection module (AJ65BT-G4-S3) and GOT	30 m
	GT21-C10R4-8P5	Between FXCPU and GOT	1 m
RS-422 connector conversion cable	GT10-C02H-9SC	Between PLC and GOT	0.2 m
	GT10-C02H-6PT9P**	Convert D-sub 9-pin to loose wire (connector terminal block 9-pin)	0.2 m
RS-232 cable [Dedicated to the serial type]	GT01-C30R2-6P**	Between Q1LCPU and GOT**	3 m
	GT10-C30R2-6P	Between GOT and GOT**	3 m
RS-232 connector conversion cable	GT10-C02H-6PT9P**	Between PLC and GOT	0.2 m
	GT10-C02H-6PT9P**	Convert D-sub 9-pin to MINI-DIN 6-pin	0.2 m
USB cable	GT09-C30USB-5P	Between personal computer (screen design software) and GOT	3 m
	GT10-C10EXUSB-5S	For extending a USB port of GOT into the control panel.	1 m
Panel-mounted USB Port Extension	GT01-RS4-M	For GOT multi-drop connection	—
	GT21-03SDCCD	For SD card mounting	—
Serial multi-drop connection unit	NZ1MEM-2GBSD	2 GB SD memory card for GOT	—
	NZ1MEM-4GBSD	4 GB SDHC memory card for GOT	—
	NZ1MEM-8GBSD	8 GB SDHC memory card for GOT	—
	NZ1MEM-16GBSD	16 GB SDHC memory card for GOT	—
SD card	GT10-20PCO	For 3.8"	—
	SH-081194ENG	GOT2000 Series User's Manual (Hardware)	Model code: 107MJ5

Refer to the connection manual for the details of connectable models.

- *1: GT2103-PMBD does not support direct connection to Q00CPU, Q00CPU, or Q01CPU.
 - *2: Cannot be used for FXnc, FXnc, FXnc-D/SS, or FX3g.
 - *3: This cable can be used if connected with the RS-232 connector conversion cable GT10-C02H-6PT9P.
 - *4: This cable is usable for GT2103-PMBDS/GT2103-PMBDS2 only.
 - *5: Only for GT2103-PMBDS2.
 - *6: GT2103-PMBD, GT2103-PMBLS are unusable.
- Actual screen may appear different from this leaflet.



Graphic Operation Terminal GOT2000 GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2 GT2103-PMBLS



Small screen, big possibilities.

5-color backlight

High resolution

GT2103

GT2103

Easily operated,
high resolution display
in a compact body!



Analog touch panel

IP67F

74 mm (2.92")

Actual size

113 mm (4.45")

Expanded lineup!!

Ethernet type **GT2103-PMBD**
RS-422 connection type **GT2103-PMBDS**
RS-232 connection type **GT2103-PMBDS2**
5 V DC power type **GT2103-PMBLS**

5-color backlight

Monochrome TFT LCD

Ethernet*1 built in

4 times higher resolution*2
320 x 128 dots

- Screen color can be changed according to the machine operation state!
- Backlight color can be controlled from the connected PLC!
- Ethernet*1 built into a compact body!
- Easy to see, high resolution compact LCD!
- The appropriate type for your equipment can be found from the expanded lineup!

Actual screen may appear different from this leaflet.

*1: Only in the Ethernet type model
*2: Compared to GT1020

High-definition LCD with changeable color backlight



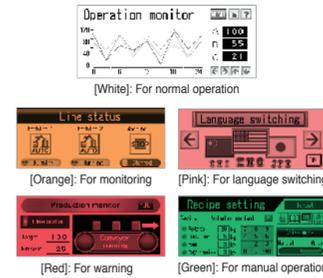
GT1020
Monochrome (black/white)
STN LCD

GT2103
Monochrome TFT LCD with
32 gray scales

GT2103 is equipped with an easy to see, compact high-resolution TFT LCD with 32 gray scales.

The intuitively understandable 5-color backlight offers choices of backlight color and backlight blink according to machine operation state.

The backlight can also be controlled from the connected PLC (screen color change and backlight ON/OFF/ blink).



Enhanced functionality with various connection ports



24 V DC power for the three models above.

USB device

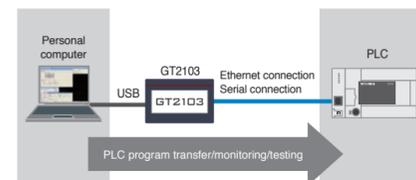
5 V DC power type
GT2103-PMBLS

Easy access to the PLC

FA transparent function

Remotely access PLC via GOT!

Connect PC to GOT and set up, program, and modify FA devices via GOT.



Option SD card unit is available!

[Compatible model]
GT2103-PMBD, GT2103-PMBDS,
GT2103-PMBDS2

SD cards can be used when the optional SD card unit is attached.
SD card unit **GT21-03SDCD**
Separate SD card is required.

GOT Screen Design Software
MELSOFT GT Works3+plus

Use GT Works3 Ver. 1.119Z or later for creating screens for the GT21 model.

Intuitive operations improve efficiency!

Easy replacement of GT1020 with GT2103!

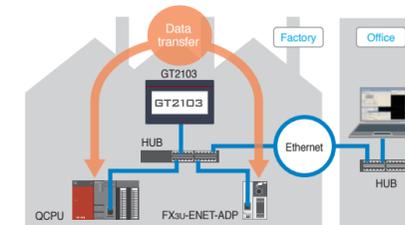
Note: System application installation is required for GT2103 series.

Ethernet for general-purpose connection

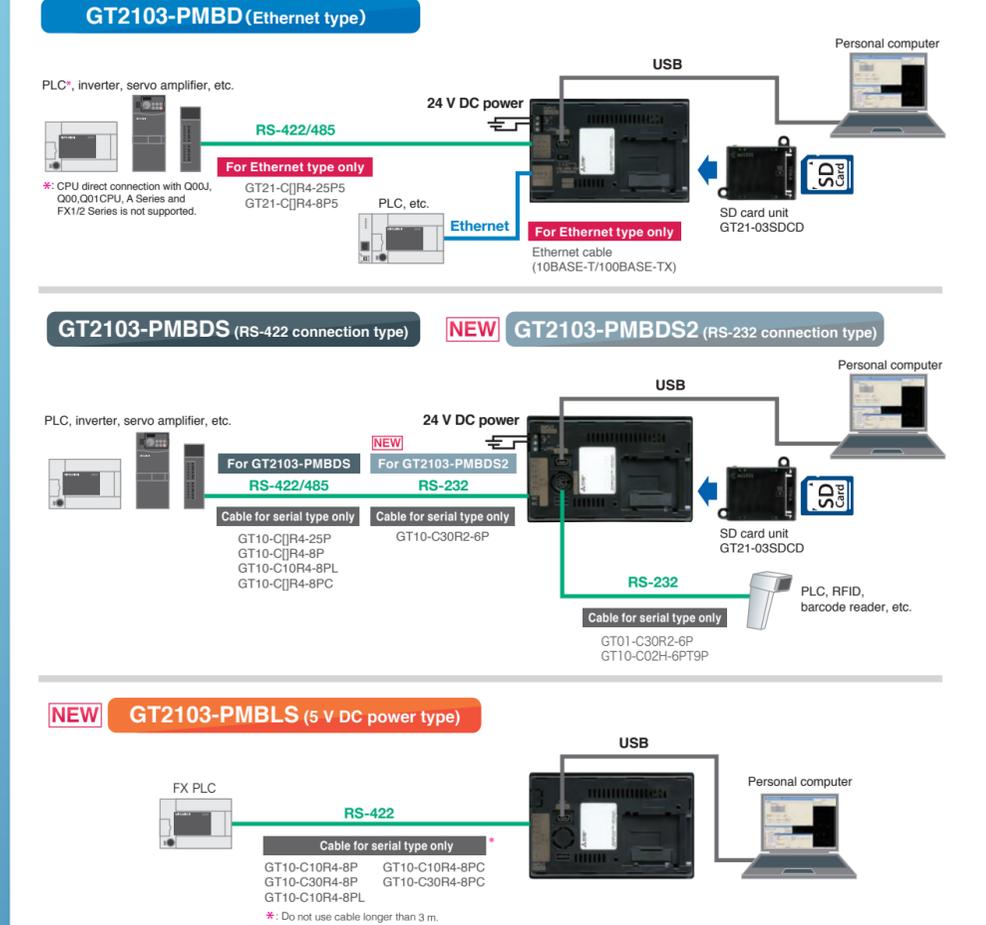
Multi-channel function

Control connected FA devices with GT2103!

Control 2 channels of FA devices with just 1 GOT. Data can also be transferred between connected FA devices with settings in GOT software GT Works3. Serial connection is also supported.



System configuration of GT21 model



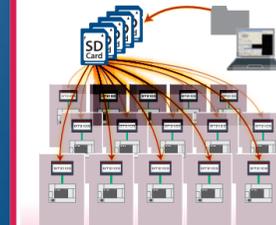
Option Recommended functions using an SD card

The separately sold SD card unit (GT21-03SDCD) is required.
GT2103-PMBLS (5 V DC power type) is not supported.

Startup from an SD card

Reduce setup time for mass produced machines!

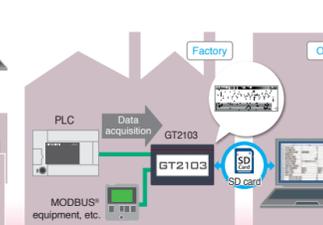
Store required data in SD card and boot from SD card to reduce setup time and maintenance. Screen data can also be transferred from SD card to GOT.



Logging function

Collect data from multiple FA devices with GT2103!

Uniformly manage data of FA devices connected to GOT. Data can be collected at any arbitrary timing, useful for analysis and feedback.



Backup/restore function

Back up important programs with GT2103!

Back up PLC program and parameters to SD card. In case of unexpected trouble, backed up programs can be instantly restored to PLC.

