GOT2000

Graphic Operation Terminal

GOT2000 - Designed to meet your industrial automation needs.

GT27 Model
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
GT2103-PMBD — Ethernet type
GT2103-PMBDS — Serial type

3.8 inch

Compact models with basic functions

Comparison table for major functions of GT21

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

Category		Function name	GT21	GT10
Screen design	Functions used with peripheral devices	Barcode function	●	●
		RFID function	●	—
		Report function (Serial printer output)	●	—
	GOT functions	Base screen	●	●
		Overlap window	●	●
		Superimpose window	●	●
		Dialog window	●	—
		Key window	●	●
		Language switching	●	●
		System information	●	●
		Operator authentication	●*2	—
		Startup logo	●	●
		FA transparent	●	●
		Backup/Restore	●*1	—
		Multi-channel function	2ch	—
		Station No. switching	●	—
		Vertical display	●	●
	Debug functions	Device monitor	●	●

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

Refer to the GOT2000 Series General Catalog for details.
L(NA)08270ENG
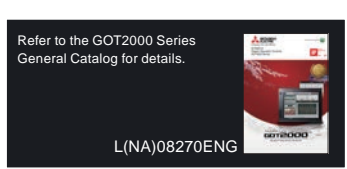
Graphic Operation Terminal

■Power supply specifications
(The general specifications are same as those of the GOT2000 Series. Refer to the GOT2000 Series General Catalog.)
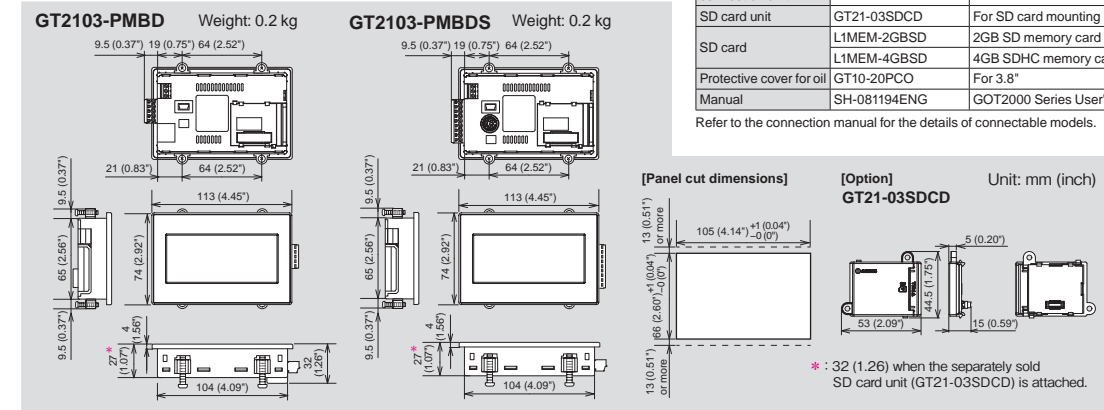
Item		Specifications	
		GT2103-PMBD	GT2103-PMBDS
Input power supply voltage		24V DC (+10%, -15%)	
Power consumption	Under the maximum load	2.6 W or less	1.9 W or less
	At backlight off	2.0 W	1.3 W
Inrush current		30 A or less (1 ms, 25°C, at the maximum load)	
Permissible instantaneous power failure time		Within 5 ms	

■Performance specifications

Item		Specifications	
		GT2103-PMBD	GT2103-PMBDS
Display section	Display device	TFT monochrome display	
	Screen size	3.8"	
	Resolution	320 x 128 dots	
	Display size	89.0 (3.51) (W) x 35.6 (1.41) (H) mm (inch)	
	Displayed number of characters	16-dot standard font: 20 characters x 8 lines (two-byte characters)	
		12-dot standard font: 26 characters x 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%)	
Touch panel	Type	Analog resistive film	
	Key size	Minimum 2 x 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	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-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
	Ethernet	1 channel Data transfer method: 10BASE-T/100BASE-TX Connector shape: RJ-45 (modular jack)	
	USB (Device)	1 ch Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B	
	SD card*1	1 channel SDHC card supported (max. 32 GB)	
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	

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

■External dimensions

GT2103-PMBD Weight: 0.2 kg

GT2103-PMBDS Weight: 0.2 kg

[Panel cut dimensions]

[Option] GT21-03SDCD   Unit: mm (inch)

* :32 (1.26) when the separately sold SD card unit (GT21-03SDCD) is attached.

■Product specifications

Product name	Model name	Contents, Specifications		
Main unit	GT2103-PMBD	3.8" TFT Monochrome LCD (black/white) 32 gray scales	Ethernet, RS-422/485	NEW
	GT2103-PMBDS		RS-232, RS-422/485	NEW
Protective sheet	GT10-03PSGC-UC	Surface treatment: anti-glare, Sheet color: transparent, USB environmental protection cover area: closed, Number of sheets included in a set: 5		NEW
	GT10-03PSCC-UC	Surface treatment: clear, Sheet color: transparent, USB environmental protection cover area: closed, Number of sheets included in a set: 5		NEW
RS-422 conversion cable	FA-CNV2402CBL	Between QCPU/L02SCPU(-P) and RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5)	0.2m	
	FA-CNV2405CBL	Between L6ADP-R2 and RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5) [MINI-DIN6 pin and D-sub 25-pin]	0.5m	
RS-422 cable [Dedicated to the serial type]	GT10-C30R4-25P	Between QnA/ACPU/motion controller CPU (A series)/FXCPU and GOT	3m	
	GT10-C100R4-25P	Between RS-422 conversion cable (FA-CNVDCBL) and GOT	10m	
	GT10-C200R4-25P	Between serial communication module and GOT	20m	
	GT10-C300R4-25P	Between peripheral connection module (AJ65BT-G4-S3) and GOT [Between D-sub 25-pin and loose wire (connector terminal block 9-pin)]	30m	
	GT10-C10R4-8P	Between FXCPU and GOT	1m	
	GT10-C30R4-8P		3m	
	GT10-C100R4-8P	Between FXCPU communication expansion board and GOT [Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)]	10m	
	GT10-C200R4-8P		20m	
	GT10-C300R4-8P		30m	
	GT10-C10R4-8PL*2	Between FXCPU and GOT Between FXCPU communication expansion board and GOT [Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)]	1m	
	GT10-C10R4-8PC		1m	
	GT10-C30R4-8PC	Between FXCPU and GOT	3m	
	GT10-C100R4-8PC	Between FXCPU communication expansion board and GOT	10m	
	GT10-C200R4-8PC	[Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)]	20m	
	GT10-C300R4-8PC		30m	
RS-422 cable [Dedicated to the Ethernet type]	GT21-C30R4-25P5*3	Between QnACPU and GOT	3m	NEW
	GT21-C100R4-25P5*3	Between RS-422 conversion cable (FA-CNVDCBL) and GOT	10m	NEW
	GT21-C200R4-25P5*3	Between serial communication module and GOT	20m	NEW
	GT21-C300R4-25P5*3	Between peripheral connection module (AJ65BT-G4-S3) and GOT [Between D-sub 25-pin and loose wire (connector terminal block 5-pin)]	30m	NEW
	GT21-C10R4-8P5	Between FXCPU and GOT	1m	NEW
	GT21-C30R4-8P5		3m	NEW
	GT21-C100R4-8P5	Between FXCPU communication expansion board and GOT	10m	NEW
	GT21-C200R4-8P5	[Between MINI-DIN 8-pin and loose wire (connector terminal block 9-pin)]	20m	NEW
	GT21-C300R4-8P5		30m	NEW
RS-422 connector conversion cable	GT10-C02H-9SC	Between PLC and GOT [Convert D-sub 9-pin to loose wire (connector terminal block 9-pin)]	0.2m	
RS-232 cable [Dedicated to the serial type]	GT01-C30R2-6P	Between Q/LCPU and GOT*1 Between L6ADP-R2 and GOT*1 Between GOT and personal computer (Can be used for the FA transparent function only. Cannot be used for the screen/OS data transfer.) [Between MINI-DIN 6-pin and D-sub 9-pin]	3m	
RS-232 connector conversion cable	GT10-C02H-6PT9P	Between PLC and GOT Between multiple connection GOT and GOT Between barcode reader, RFID, serial printer and GOT [Convert D-sub 9-pin to MINI-DIN 6-pin]	0.2m	
USB cable	GT09-C30USB-5P	Between personal computer (screen design software) and GOT [Between USB-A and USB Mini-B]	3m	
Panel-mounted USB Port Extension	GT10-C10EXUSB-5S	For extending a USB port of GOT into the control panel.	1m	
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection		
SD card unit	GT21-03SDCD	For SD card mounting		NEW
SD card	L1MEM-2GBSD	2GB SD memory card for GOT		
	L1MEM-4GBSD	4GB SDHC memory card for GOT		
Protective cover for oil	GT10-20PCO	For 3.8"		
Manual	SH-081194ENG	GOT2000 Series User's Manual (Hardware)		

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

*1: GT2103-PMBD does not support direct connection to Q00JCPU, Q00CPU, or Q01CPU.
*2: Cannot be used for FXiNc, FX2Nc, FX3Uc-D/DSS, or FX3G.
*3: This cable can be used if connected with the RS-232 connector conversion cable GT10-C02H-6PT9P.

MITSUBISHI ELECTRIC
Changes for the Better
for a greener tomorrow
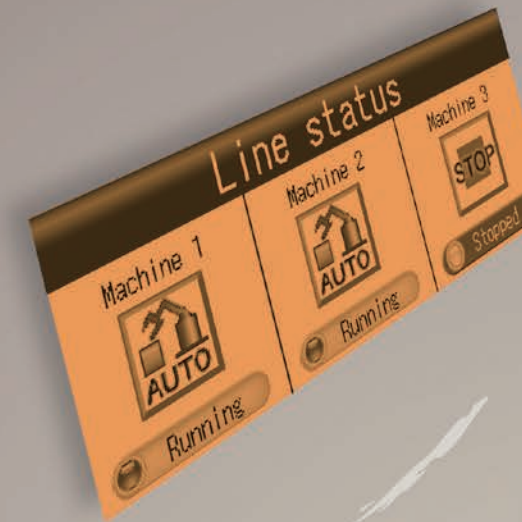
Graphic Operation Terminal

GOT2000

GT2103-PMBD
GT2103-PMBDS

Small screen, big possibilities.

5-color backlight
High resolution

GT2103

3.8in GT2103 released!
High resolution TFT
5 color backlight
Monochrome 32 shades

GT2103

Easily operated, high resolution display in a compact body!

Production monitor MENU
Line status
Target 100
Preset
Conveyer running

Language switching
ENG
OK

Line status
Machine 1 Machine 2 Machine 3
AUTO AUTO STOP
Running

Recipe setting logout
Recipe Potato salad
Potato 20 kg 7 8 9
Cucumber 5 kg 4 5 6
Ham 3 kg 1 2 3
Drive mode
Manual Auto
HELP

MITSUBISHI ELECTRIC GOT2000
3.8in GT2103 released!
High resolution TFT
5 color backlight
Monochrome 32 shades
GOT2000

- Analog touch panel
- IP67F

113mm
74mm
Actual size

Ethernet type GT2103-PMBD   **Serial type** GT2103-PMBDS

- **5-color backlight**
- **Monochrome TFT LCD**
- **Ethernet*1 built in**
- **4 times** higher resolution*2 **320 × 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!

High-definition LCD with changeable color backlight

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).

MITSUBISHI GOT1000   GOT2000
GT1020   GT2103

Same compact type, but so much clearer!

[Backlight color and screen example]
Language switching
Line status
Production monitor
Recipe setting
[Pink]: For language switching
[Orange]: For monitoring
[Red]: For warning
Operation monitor
[Green]: For manual operation
[White]: For normal operation

GT1020
Monochrome (black/white)
STN LCD

GT2103
Monochrome TFT LCD with 32 gray scales
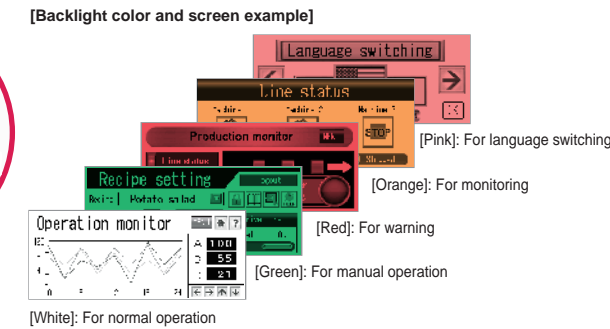
Enhanced functionality with various connection ports

Ethernet type
GT2103-PMBD
- USB device
- 24V DC power
- RS-422/485 port
- Ethernet port

Interface for SD card unit

Serial type
GT2103-PMBDS
- USB device
- 24V DC power
- RS-422/485 port
- RS-232 port

Interface for SD card unit

GOT Screen Design Software
MELSOFT GT Works3 +plus

Use GT Works3 Ver. 1.112S or later for creating screens for the GT21 model.
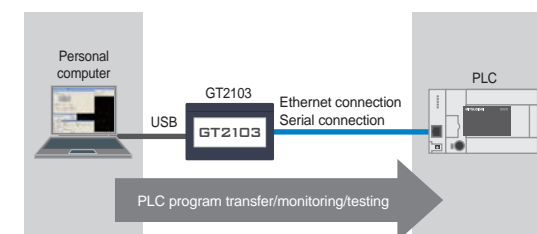
Intuitive operations improve efficiency!   **Easy replacement of GT1020 with GT2103!**

⚠ Note: System application installation required for GT2103 series

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.

Personal computer
USB
GT2103
Ethernet connection
Serial connection
PLC
PLC program transfer/monitoring/testing

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.

Data transfer
Factory
Office
GT2103
HUB
Ethernet
HUB
QCPU
FX3U-ENET-ADP
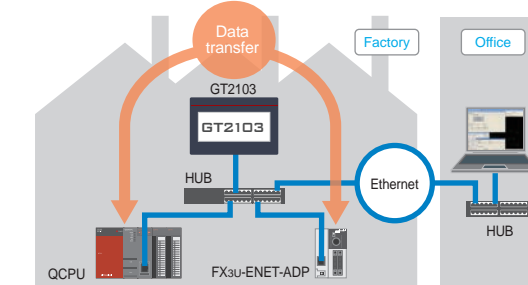
SD card unit is available!

Option

SD cards can be used when the optional SD card unit is attached.

ACCESS SD

SD card unit GT21-03SDCD
Separate SD card is required

System configuration of GT21 model

GT2103-PMBD (Ethernet type)   **GT2103-PMBDS (Serial type)**

Personal computer

USB   USB

24V DC power   24V DC power

SD card unit GT21-03SDCD   SD card unit GT21-03SDCD

Ethernet
PLC, etc.

RS-232
PLC, RFID, barcode reader, etc.

For Ethernet type only
Ethernet cable (10BASE-T/100BASE-TX)

For serial type only
GT01-C30R2-6P
GT10-C02H-6PT9P

PLC*, inverter, servo amplifier, etc.   PLC, inverter, servo amplifier, etc.

RS-422/485   **RS-422/485**

For Ethernet type only
NEW GT21-C□R4-25P5
NEW GT21-C□R4-8P5

For serial type only
GT10-C□R4-25P
GT10-C□R4-8P
GT10-C10R4-8PL
GT10-C□R4-8PC

*: CPU direct connection with Q00J, Q00, Q01CPU, A Series and FX1/2 Series is not supported.

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

Recommended functions using an SD card

Option

The separately sold SD card unit (GT21-03SDCD) is required.

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.

PLC
Data acquisition
GT2103
MODBUS® equipment, etc.
Factory
Office
SD card

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.

PLC
Restore
Backup
GT2103
Factory
SD card