SENSOR OPTIONS

WIRE-SAVING UNITS

WIRE-SAVING

STATIC CONTROL

LASER MARKERS PLC / TERMINALS

ENERGY CONSUMPTION VISUAL/2ATION COMPONENTS FA COMPONENTS MACHINE VISION SYSTEMS UV CURING SYSTEMS

ENDOSCOPE

SYSTEMS MEASUREMENT SENSORS

SIMPLE

Programmable Display **GT series**





Features

- Cool body shape with a QVGA LCD
- Three-color backlight, which allows for checking the machine status at a site (GT02/GT05M/GT05G/GT12)
- High operability achieved by the customizable screen layout
- USB/miniUSB interface and SD/SDHC memory card slot (GT02/GT05/GT12/ GT32)
- Sound output and Ethernet connection (GT32T1)

Applications

Control panels of equipment/machines

Look, listen and touch. Programmable displays capable of more vivid expressions

SPECIFICATIONS

panasonic-electric-works.net/sunx

		GT02	GT02L	GT12	GT05M	GT05G	GT05S	
Rated voltage		5 V DC/24 V DC	5 V DC	24 V DC	24 V DC		24 V DC	
Display	Screen size	3.8 inch	3.7 inch	4.6 inch	3.5 inch		3.5 inch	
	Display type	STN monoc	hrome LCD	STN monochrome LCD	STN monochrome LCD		STN color LCD	
	Display color	2 colors (black/white)	1 color (black)	2 colors (black/white)	2 colors (black/white)		4,096 colors	
	Resolution	240(W) × 96(H)	160(W) × 64(H)	320(W) × 120(H)	320(W)	× 240(H)	320(W) × 240(H)	
	Backlight	GT02G: 3-color LED (green/orange/red) GT02M: 3-color LED (white/red/pink) GT02L: White LED				3-color LED (green/orange/red)	White LED	
	Displayable characters	216 characters	160 characters	384 characters	768 characters		768 characters	
	Memory capacity (F-ROM)	2 Mbyte		2 Mbyte	2 Mbyte		12 Mbyte	
External interface	Serial port	RS232C/RS422 (RS485)		RS232C/RS422 (RS485)	RS232C/RS422 (RS485)		RS232C/RS422 (RS485)	
	USB port	🔿 (mini)		🔿 (mini)	0		0	
	Ethernet							
	SD/SDHC memory card	(Note)		0	0		0	
	Sound output							

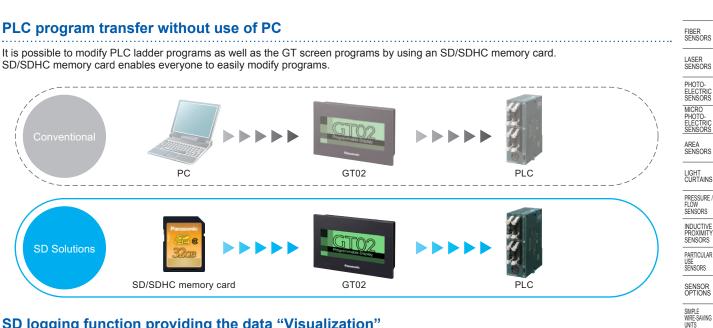
Classification

Programmabi Displa

GT series

		GT21C	GT32M	GT32T0	GT32T1 (Advanced function)	: Applicable
	Rated voltage	24 V DC	24 V DC	24 \	/ DC	
	Screen size	4.7 inch	5.7 inch	5.5	inch	
Display	Display type	STN color LCD	STN monochrome LCD	TFT color LCD		
	Display color	256 colors	2 colors (blue/white)	4,096 colors		
	Resolution	320(W) × 240(H)	320(W) × 240(H)	320(W) × 240(H)		
	Backlight	White LED	CFL	CFL		
	Displayable characters	768 characters	768 characters	768 ch	aracters	
	Memory capacity (F-ROM)	6.5 Mbyte	2 Mbyte	12 N	Ibyte	
External interface	Serial port	RS232C/RS422(RS485)	RS232C/RS422(RS485)	RS232C/RS422(RS485)		
	USB port		0	0	0	
	Ethernet				0	
	SD/SDHC memory card		0	0	0	
	Sound output				0	

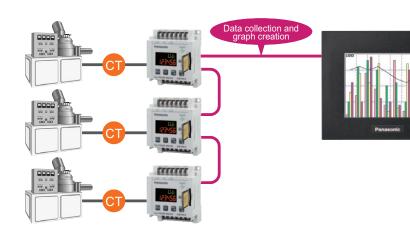
Note: Only available with GT02MQ2 and GT02GQ2



SD logging function providing the data "Visualization"

Automatically collecting electrical readings of Eco-POWER METERS and displaying in a real time graph, allowing users to take quick actions for solutions.

- The GT unit can collect data, such as electrical power on an SD/SDHC memory card, and display the log data in a real time graph. You can make data "Visualization" without using PC as a display or Datalogger for collecting data.
- · One bar graph has a maximum of eight bars and can be combined with line graphs.
- . The following three conditions can be selected to trigger an operation to save log data.
- (1) Specified time (2) Specified cycle (1 sec to 24 hrs) (3) Specified condition
- Large volumes of data can be saved on an SD/SDHC memory card, which can be carried with you.





ENERGY CONSUMPTION VISUALIZATION COMPONENTS
FA COMPONENTS
MACHINE VISION SYSTEMS
UV CURING SYSTEMS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL

ENDOSCOPE

LASER MARKERS

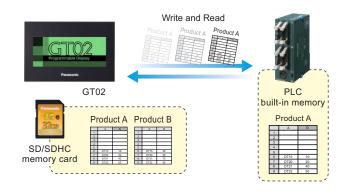
PLC / TERMINALS

1192

Classification

SD recipe function

For high-mix production, recipe data up to 64 types and 4,096 devices in total, can be easily set on a PC. The created recipe data is saved on an SD/SDHC memory card, and the specified data can be written or read from a PLC.



Saving alarm history data on an SD card

The alarm history data stored in the GT built-in memory can be saved on an SD memory card, making it possible to easily control problems on a PC.



UV CURING SYSTEMS

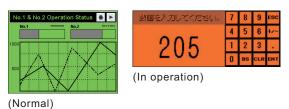
HIGH VISIBILITY AND EXCELLENT OPERABILITY

Three-color LED backlights allows for checking machine status at a glance

G type

The monochrome display (except GT32M) has a three-color LED backlight. It allows operators to check the equipment status at a site by changing the background color.

Example: green under normal conditions, orange during operation, and red in emergency situations.



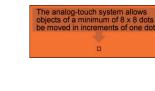


(Emergency)

Highly flexible screen design

GT series displays use an analog-touch panel where locations of parts and characters can be adjusted in increments of one dot. The adoption of the Windows font has widened the character size selection (10 to 240 dots), making the screen design more flexible. *The maximum size varies depending on the model.

"Analog-touch design"

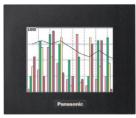




Move in increments ന് ന്നാല പ്ര

Graph function

One bar graph has a maximum of eight bars and can be combined with line graphs.



GT32T1

Error warning by voice messages

Voice messages or melodies immediately communicate the equipment status to operators not located near the equipment. The sound files are compatible with WAV format, which can be easily prepared by a PC.



Portrait display ideal for narrow spaces GT02/GT12/GT21C

The unit can display screens in portrait orientation and can therefore be installed in narrow spaces, expanding system design possibilities and contributing to size reduction. The portrait display is also ideal for slim equipment without enough space to install a display.



"True Type fonts"

.....



Flow display function

A flowing message of up to 64 characters (two-byte) can be displayed at the bottom of the screen. (128 messages)



limes New Roman 20P Shadow



Multi-function switches

GT05/GT12/GT32

GT05S/GT32T

Multiple operations are possible. For example, screens can be switched by setting multiple values.

4096-color parts libraries

3D-design buttons with higher visibility and operability are available.



Up to 31 PLC units can be connected to one GT unit. Progress in

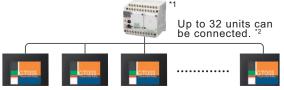
multiple production lines can be centrally monitored and controlled

ADVANCED FUNCTIONS TO ENHANCE WORK EFFICIENCY

Multiple GT displays are available to connect to our FP series PLC

GT link function

Up to 32 GT displays can be connected to one PLC unit without communication programs. The same screen operation is possible at a conveyor line or other remote locations, and the number of PLC units can be reduced, cutting the production process costs.



^{*1:} Our FP series PLC

*2: As the number of connected units increases, the response slows down. Check the speed in the actual line.

Enhanced security with password protection

Password-protection and operation security functions protect the data asset in the display unit and control the authorization for operation.

This function allows operators to simultaneously carry out the transfer of screen data of a GT series display and the debugging of our FP

Allows simultaneous debugging of GT and PLC

Screen data transmission PLC debugging

GT32T1 supports Ethernet connection, which allows the "through" function to be controlled from a remote location.

Rear of GT

Password-protection function

The screen data upload operation can be restricted by using passwords to protect the data asset in the display unit.



High-efficiency operation with USB / "through" function

Power supply

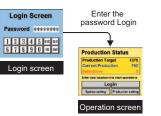
Communication

Operation security function

Connectivity with multiple PLCs

via one GT unit.

Up to 64 operators can set individual passwords, and up to 16 levels of restrictions can be set on displays and operations for each part. The registered users and passwords can be changed on the display panel.



FPWIN GR

PC

GTWIN



ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS MACHINE VISION SYSTEMS

UV CURING SYSTEMS



Diopidy

Classification

Easy-to-switch language

FP-X

FPΣ

FP2SH

series PLC connected to the display.

Conventionally, screens were created for each language. With this new language switching function, data can be registered in multiple languages (up to 16) for each part. The characters can be easily edited with Microsoft Excel and then imported.

FP0R

画	部	日本語	英語	簡体字中国語	繁体字中国語	韓建国語
000	SW0	日本語	English	简体中国语	繁體中國語	한국어
000	SW0	ありがとうございました	Thank you	热烈欢迎	諸多指教	안녕하/
000	SW1	1	1	1	1	1
000	SW1	2	2	2	2	2

Write device function

This function modifies the PLC data or turns bits on/off according to the PLC status or the screen No. Now four arithmetic operations between devices are also possible.



GT32T1

FP series PLC

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

SENSOR OPTIONS



Up to 31 units

can be connected

GT02/GT05/GT12/GT32

2 SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

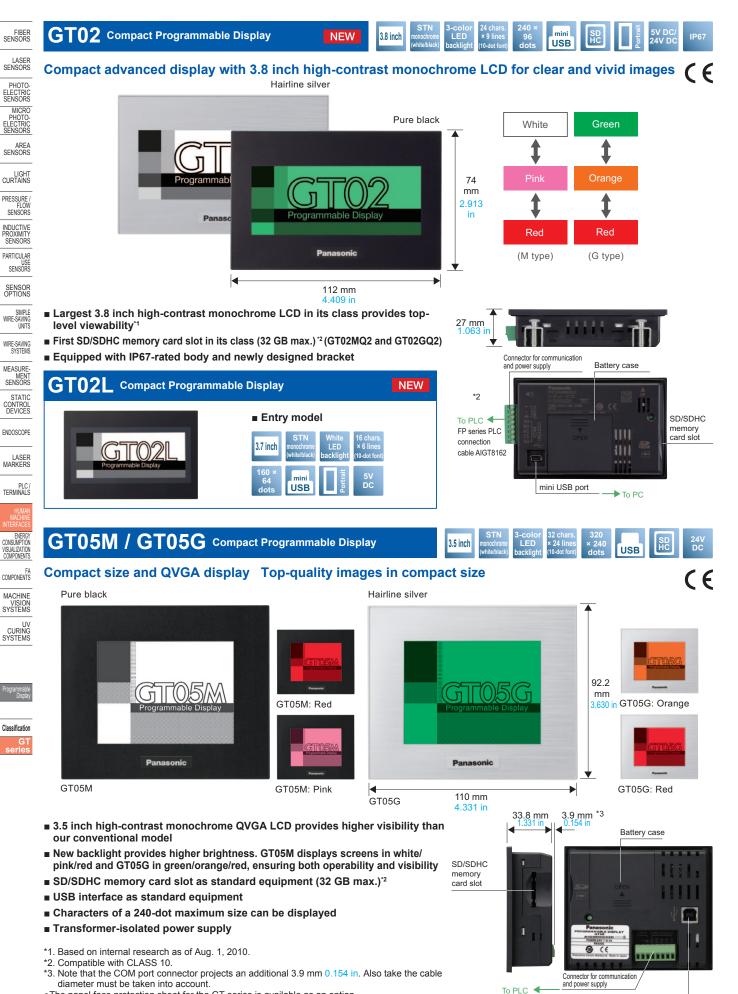






LASER MARKERS

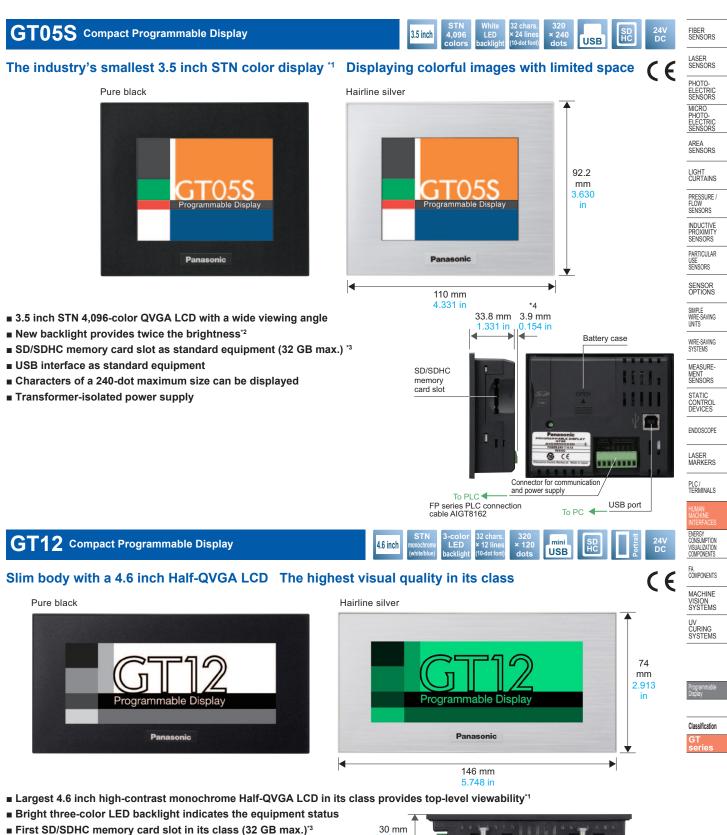
PLC / TERMINALS



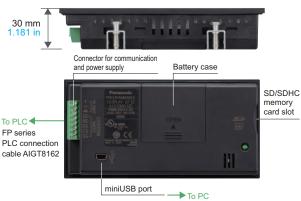
•The panel face protection sheet for the GT series is available as an option.

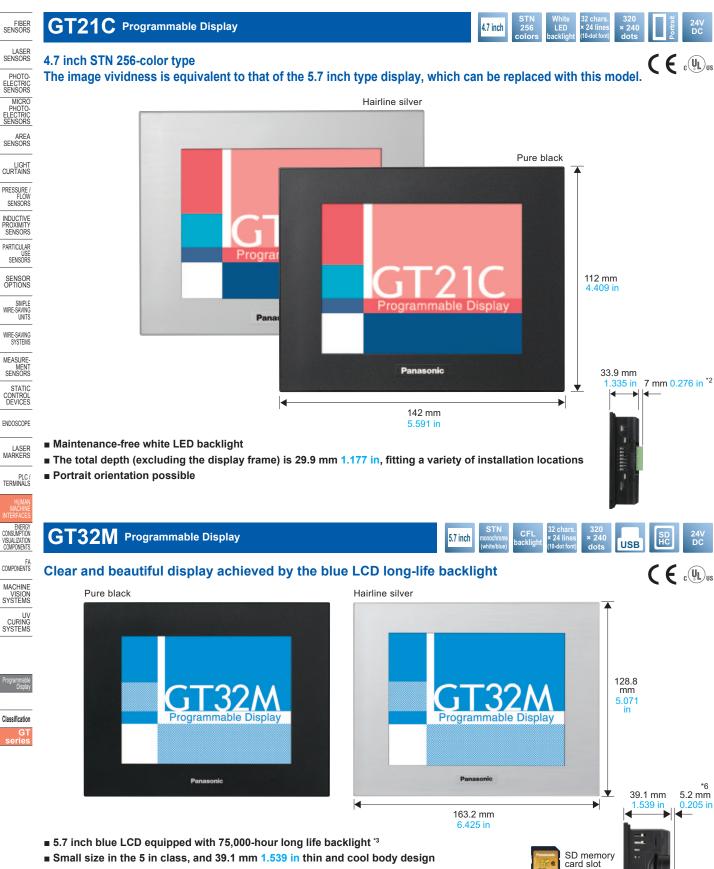
FP series PLC connection cable AIGT8162 To PC

1196



- MiniUSB interface as standard equipment
- Flexible sizing and layout available for switches and characters
- Transformer-isolated power supply
- IP67-rated body and newly designed bracket
- *1. Based on internal research as of Aug. 1, 2010.
- *2. Compared with GT21C.
- *3. Compliant with CLASS 10.
- *4. Note that the COM port connector projects an additional 3.9 mm 0.154 in. Also take the cable diameter must be taken into account.
- The panel face protection sheet for the GT series is available as an option.



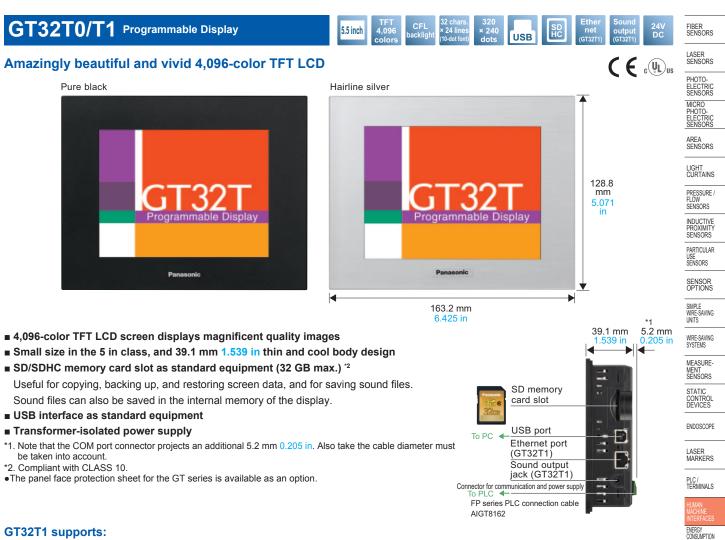


- SD/SDHC memory card slot as standard equipment (32 GB max.) *4
- USB interface as standard equipment *5
- Transformer-isolated power supply
- *1. When the panel thickness is 5 mm 0.197 in, the screw head of the mounting bracket protrudes 4 mm 0.157 in.
- *2. Note that the COM port connector projects an additional 7 mm 0.276 in. Also take the cable diameter must be taken into account.
- *3. The backlight type for GT32M cannot be changed.
- *4. Compliant with CLASS 10.
- *5. Please use a commercially available A-B type USB cable.
- *6. Note that the COM port connector projects an additional 5.2 mm 0.205 in. Also take the cable diameter must be taken into account.
- •The panel face protection sheet for the GT series is available as an option.

Connector for communication and power supply To PLC FP series PLC connection cable AIGT8162

To PC 🔶 USB port





GT32T1 supports:

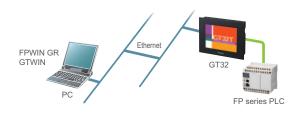
Sound output function

Audio information as well as visual and tactile information allows for more reliable control by operators.



Ethernet connection

GT32T1 supports Ethernet connection, allowing for the "through" function for our FP series PLC in a remote location.



Classification

VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS UV CURING SYSTEMS