Panasonic ideas for life

Programmable Display

GT SERIES





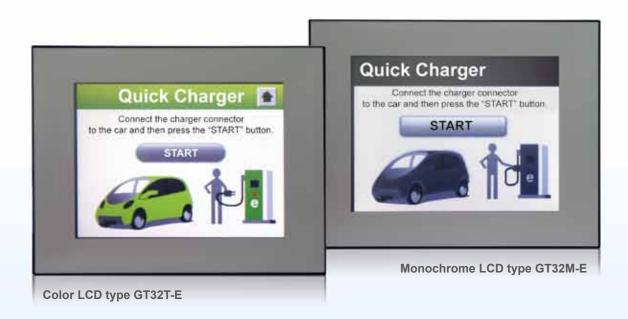


Enhanced Environmental Resistance

A new IP67 environmental rating gives the GT-32E Series excellent visibility, operability, and functionality.



Introducing the GT32-E Series with Excellent Environmental Resistance





Wide Operating Temperature Range!

-20 °C to +60 °C -4 °F to +140 °F (-20 °C to +55 °C -4 °F to +131 °F when horizontally installed)



Resistant to UV Rays!

A front protection layer reduces the intensity of UV rays



High Waterproof Performance!

Front panel: Rated IP67



High Visibility Display

Improved brightness and contrast, coupled with a new anti-glare coating provides exceptional viewing characteristics.

See page 8 for details. ▶

New additions of the GT02 and GT12 lineups

• GT02M: A black body type

• GT02G: A silver body type

GT12: A model without an SD memory card slot.

												—: N	lot available
	CT			Rated				Display		5.5			cternal terface
	GTse	eries	- Z	voltage	Screen size	Display type	Display color	Resolution	Backlight	Displayable characters*1	Memory capacity (F-ROM)	USB port	SD / SDHC memory card
Environ-	GT32M-E	GIROM-E	P.8	24 V DC	5.7 inch	TFT monochrome LCD	2 colors (black / white) (16-gray scale)	320(W) × 240(H) dots	White LED	768 characters	12 Mbyte	0	0
mentally- resistant													
Tough series	GT32T-E	5132T-E	P.8	24 V DC	5.7 inch	TFT color LCD	4,096 colors	320(W) × 240(H) dots	White LED	768 characters	12 Mbyte	0	0
Entry-level model	GT02L	GIDN	P.10	5 V DC	3.7 inch	STN monochrome LCD	2 colors (black / white)	160(W) × 64(H) dots	White LED	96 characters	704 kbyte	O (mini)	_
	GT02 GT02M	GT02G	P.11	5 V DC 24 V DC	3.8 inch	STN monochrome LCD	2 colors (black / white)	240(W) × 96(H) dots	GT02M: 3-color LED (white/pink/red) GT02G: 3-color LED (green/orange/red)	216 characters	2 Mbyte	O (mini)	O AIG02MQ2*D and AIG02GQ2*D only
	GT12 GT12G	GT12M	P.12	24 V DC	4.6 inch	STN monochrome LCD	2 colors (black / white) (8-gray scale)	320(W) × 120(H) dots	GT12M: 3-color LED (white/pink/red) GT12G: 3-color LED (green/orange/red)	384 characters	2 Mbyte	O (mini)	O AIG12MQ1*D and AIG12GQ1*D only
	GT05		P.13					GT05M/G	T05G				
GT series	GT05M	GT05G		24 V DC	3.5 inch	STN monochrome LCD	2 colors (black / white)	320(W) × 240(H) dots	GT05M: 3-color LED (white/pink/red) GT05G: 3-color LED (green/orange/red)	768 characters	2 Mbyte	0	0
								GT05	3				
	GT05S	GT05S		24 V DC	3.5 inch	STN color LCD*2	4,096 colors	320(W) × 240(H) dots	White LED	768 characters	12 Mbyte	0	0
	GT32M		P.14										
	G132M	ST37/		24 V DC	5.7 inch	STN monochrome LCD	2 colors (blue / white)	320(W) × 240(H) dots	CFL	768 characters	2 Mbyte	0	0
	GT32T		P.15										
	GT32T	GT32T1		24 V DC	5.5 inch	TFT color LCD	4,096 colors	320(W) × 240(H) dots	CFL	768 characters	12 Mbyte	GT32T Ethern sound	
	*1 With the 10-dot font		GT05S will be	changed to 1	FT color	LCD from production i	n December :	2011.					

SD Solutions only Panasonic can provide

Links and expansion via SD

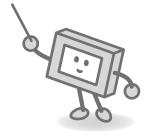
As small-size touch panels have significantly improved their image quality,

easy to read displays with sharp characters are no longer special features these days.

Instead, programmable displays will evolve with maximum "user-friendliness"

in various applications with PCs or other devices.

As shown below, our touch panels exchange and store data using SD memory card, data for many applications.





Links via SD

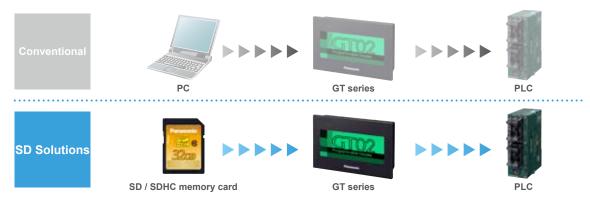
- ▶▶ SD recipe function (Data table management)
- ▶▶ Transfer of PLC program data

Expansion via SD

- ▶▶ Saving alarm history data on an SD
- **▶▶** Logging function
- ▶▶ Display of graphs of stored data

PLC program transfer without the use of a PC

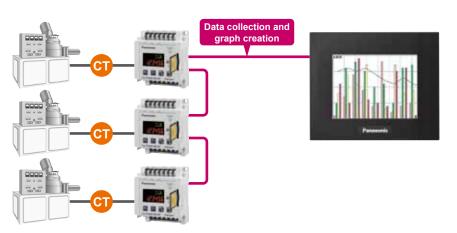
It is possible to modify PLC ladder programs as well as the GT screen programs by using an SD / SDHC memory card. SD / SDHC memory card enables everyone to easily modify programs.

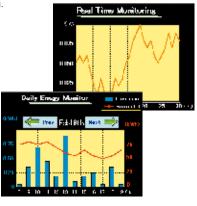


SD logging function to produce data "Visualization"

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

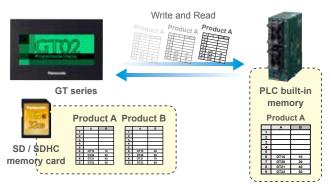
- The GT unit can collect data, such as electrical power on an SD / SDHC memory card, and display the log data in a real time graph. You can make data "Visualization" without using a PC as a display or Data logger for collecting data.
- One bar graph has a maximum of eight bars and can be combined with 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.





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 / SDHC memory card

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



• The LCD images on this page are composites.

High Visibility and Excellent Operability



Three-color LED backlights allows for checking machine status at a glance (GT02M, GT02G, GT05M, GT05G, GT12M and GT12G)

The monochrome display* has a three-color LED backlight. It allows operators to check the equipment status at a glance by changing the background color.

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

* Except GT32M-E, GT32M and GT02L

(Normal)

GT12G



(In operation)

GT02G



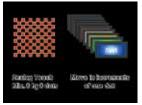
(Emergency)

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"





"TrueType fonts"

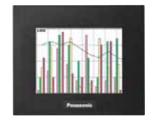
s New Homan, 162 Beld Underlined Well fort 1817 Cultimed Shanlow

The adoption of the Windows® font has made it possible to choose a font focusing on the screen image and visual quality.



Graph function

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



Flow display function

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



Error warning by voice messages (GT32T1)

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.



4,096-color parts libraries

Multi-function switches

switched by setting multiple values.

Multiple operations are possible. For example, screens can be

(GT05S, GT32T and GT32T-E)

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



• The LCD images on this page are composites.

Portrait display ideal for narrow Spaces (GT02, GT02L and GT12)

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.



Advanced Functions to Enhance Work Efficiency



Newly equipped with an FP monitoring function

The setting status and data of our FP series PLC connected to GT can be monitored and edited on the GT screen. This function allows you to check equipment operations in actual environments without creating screens in advance or connecting the unit to a PC and to increase the efficiency of equipment startup and daily maintenance work.

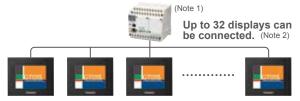
Notes: 1) The FP monitoring function is available for FP-X, FPΣ, FP0R, FP2, FP2SH, FP0, and FP-e.

2) The FP monitoring function can be used only when the FP monitoring screen is set (stored) in GT. Note that the FP monitoring screen uses the user's memory (F-ROM) of GT.

Multiple GT displays can be connected to our FP series PLC.

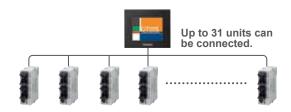
GT link function

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.



Connectivity with multiple PLCs

Up to 31 PLC units can be connected to one GT unit. Progress in multiple production lines can be centrally monitored and controlled via one GT unit.



Notes: 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.

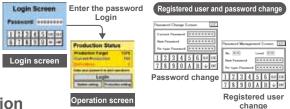
Password protection function

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



Operation security function

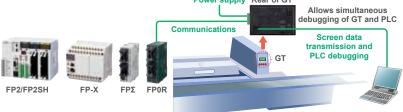
Up to 64 operators can set individual passwords, and up to 16 levels of restrictions can be set on displays and operations for each part. The registered users and passwords can be changed on the display unit.

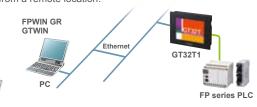


High-efficiency operation with through function

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







Easy-to-switch language

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.

	03	Japanese	English	Simplified Chinese	Traditional Chinese	Korean
000	SWO	日本語	English	76(3中国)万	整体中间间	한국대
000	SW0	ありがとうこざいました	Thankyou	热烈欢迎	請多指教	안녕하/
000	\$W1	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.



GT32-E

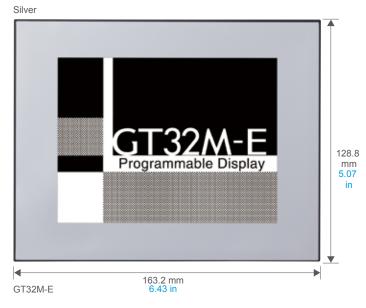
Programmable Display

Outdoor Use Made Possible by Significantly Improved **Environmental Resistance and Visibility**



Tough series





1.5 mm *² 0.06 in

39 1 mm

Slot for SD memory

card

GT32T-E

5.7 inch, 4,096 colors TFT color LCD equipped with long life LED backlight

GT32M-E

5.7 inch, 16-gray scale TFT monochrome LCD equipped with long life LED backlight

Common features

Superior visibility even in sunlight

The brightness, contrast ratio, and viewing angle have been improved.

Wide range of operating temperature that covers outdoor use

The improved environmental resistance allows for use in a wider operating temperature range of -20 °C to +60 °C -4 °F to +140 °F.

UV Resistant, Anti-glare front panel

A front protection layer reduces the intensity of UV rays and has an anti-glare coating.

Impressive water resistance makes usage possible in areas prone to water contact.

The front panel of the GT-E series is IP67 rated with added protection applied to the rear of the unit for a more rugged overall construction.

Built-in SD/SDHC memory card slot *1

Easy to copy, back up, and restore screen data.

Integrated USB Interface

You can connect your PC and GT32-E using your USB cable to transfer screen data.

When used with our FP series PLC, this display supports the pass through function, which allows simultaneous debugging of the PLC and the display

Transformer-isolated power supply

The isolated power supply enhances the reliability.







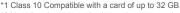












USB port

To PLC

and power supply

PLC connection cable AIGT8162

Connector for communication

*2 Note that the communication and power supply connector projects an additional 1.5 mm 0.06 in. Also take the cable diameter must be taken into account.

Downloaded From Oneyac.com

Superior visibility even in sunlight

Color type







Monochrome type





New model GT32T-E

Conventional model GT32T

New model GT32M-E

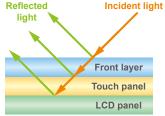
Conventional model GT32M

- · High contrast LCD: Achieved higher contrast and visibility.
- · High brightness backlight: Achieved greater brightness and visibility than the conventional model.

Anti-glare, High visibility display

· A front protection layer has an anti-glare coating to prevent unwanted reflections (Fingerprints are made less noticeable even in outdoor use)





Anti-glare front coating

No anti-glare front coating

Comparison of reflection







Conventional model GT32M

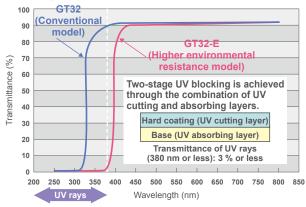
• The LCD pictures are screen captures of actual displays

No risk of product deterioration due to **UV** exposure

- The front sheet is made of a material that does not transmit UV rays.
- A combination of a UV cutting layer and a UV absorbing layer performs two-stage UV blocking.

The LCD and touch panel can be protected from deterioration.

■ UV ray transmittance performance



Excellent water resistance

- The front panel has a protective structure rated IP67. Safe to use outdoors or in a location exposed to splashing water.
- · Added protection has been applied to the rear of the unit for a more rugged overall construction.

Wide operating temperature range

- Usable in a range of -20 °C to +60 °C -4 °F to +140 °F (-20 °C to +55 °C -4 °F to +131 °F when horizontally installed)
- The TFT LCD can quickly switch screens even at a low temperature.
- The life of the LED backlight does not decrease even at a low temperature.
- It is not necessary to prepare a heater for use at a low temperature.

Reduced power consumption

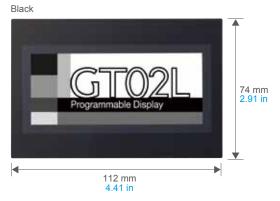
- Color type (GT32T-E): 7.2 W or less
- Monochrome type (GT32M-E): 4.8 W or less

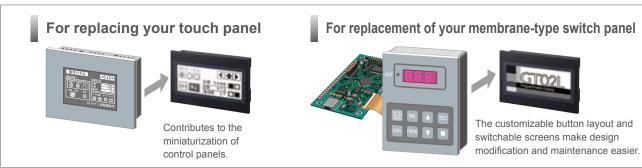


Compact Programmable Display

Entry-level Touch Panel

3.7 inch (€ ເພິ່ງ us Entry-level model





Compact body with a wide LCD that is the largest size in its class

The small body of 74 mm 2.91 in high and 112 mm 4.41 in wide is equipped with a 3.7 inch large LCD. The analog touch system does not display any annoying visible dots or lines.

MiniUSB interface as standard equipment

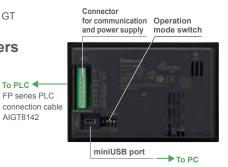
Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT

Flexible sizing and layout available for switches and characters

Switches of a minimum of 8 x 8 dots can be moved in increments of one dot. A wide range of character fonts and sizes (10 to 64 dots) are supported.

Portrait orientation ideal for narrow spaces

Installation in narrow spaces is possible, enhancing the degree of system design freedom.



















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

To PLC ◀

AIGT8142

• The LCD images on this page are composites.

Compact Programmable Display

Compact advanced display with 3.8 inch high-contrast monochrome LCD (for clear and vivid images)

3.8 inch (€ (Ų) us

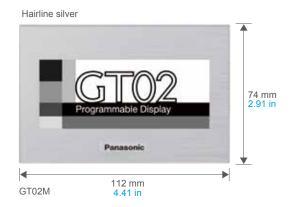




GT series

Pure black





Largest 3.8 inch high-contrast monochrome LCD in its class provides top-level viewability*1.

High-definition 240 x 96 dots LCD produces crisp images. The analog touch screen technology does not display any annoying visible dots or lines.

Bright three-color LED backlight indicates the equipment status.

The color combination is green/orange/red or white/red/pink. The backlight ensures both operability and visibility.



First SD / SDHC memory card slot in its class*2

AIG02MQ2*D and AIG02GQ2*D are equipped with an SD / SDHC memory card slot. Easy to copy, back up, and restore screen data.

communication and power supply Battery case FP series PLC connection cable HII AIGT8142

Connector for

27 mm

1.06 in

Slot for SD memory card

MiniUSB interface as standard equipment

Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT.

Flexible sizing and layout available for switches and characters

Switches of a minimum of 8 x 8 dots can be moved in increments of one dot. A wide range of character fonts and sizes (10 to 96 dots) are supported.

Equipped with IP67-rated body and newly designed bracket

Portrait orientation ideal for narrow spaces

Installation in narrow spaces is possible, enhancing the degree of system design freedom.



miniUSB port

→ To PC

refreshing





















- *1 Based on internal research as of Jan. 1, 2011
- *2 Class 10 Compatible with a card of up to 32 GB.
- The panel face protection sheet for the GT series is available as an option.



















GII2

Compact Programmable Display

Slim body equipped with a 4.6 inch Half-QVGA LCD The highest visual quality in its class

4.6 inch (€ (VL) us **GT** series





Largest 4.6 inch high-contrast monochrome Half-QVGA LCD in its class provides top-level viewability*1.

High-definition Half-QVGA (320 x 120) LCD produces crisp images. The analog touch screen technology does not display any annoying visible dots or lines.

Bright three-color LED backlight indicates the equipment status.

The color combination is green/orange/red or white/red/pink. The backlight ensures both operability and visibility.

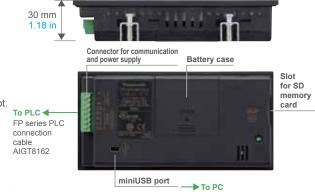


First SD / SDHC memory card slot in its class*2

AIG12MQ1*D and AIG12GQ1*D are equipped with an SD / SDHC memory card slot. Easy to copy, back up, and restore screen data.

MiniUSB interface as standard equipment

Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT.



Flexible sizing and layout available for switches and characters

Switches of a minimum of 8 x 8 dots can be moved in increments of one dot. A wide range of character fonts and sizes (10 to 120 dots) are supported.

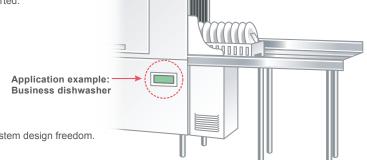
Transformer-isolated power supply

The isolated power supply enhances the reliability.

Equipped with IP67-rated body and newly designed bracket

Portrait orientation ideal for narrow spaces

Installation in narrow spaces is possible, enhancing the degree of system design freedom.





GT12M



















- 1 Based on internal research as of Jan. 1, 2011
 - *2 Class 10 Compatible with a card of up to 32 GB.
 - The panel face protection sheet for the GT series is available as an option.



Compact Programmable Display

Compact size and equipped with a QVGA LCD.

Both the color and monochrome types display striking images.

3.5 inch (€ ເΨັ້ນ us





GT series

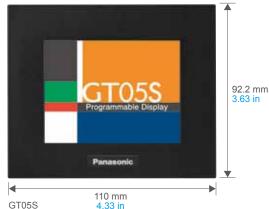
Pure black



Hairline silver



Pure black



GT05M



GT05M: pink



GT05G: orange GT05G: red

GT05M/GT05G

3.5 inch high-contrast monochrome QVGA LCD provides higher visibility than our conventional model.

Bright LED backlight adopted

GT05M displays screens in white, red, and pink, and GT05G in green, orange, and red, ensuring both operability and visibility.

Common features

SD / SDHC memory card slot as standard equipment*1

Easy to copy, back up, and restore screen data.

USB interface as standard equipment

Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT

Characters of a 240 dots maximum size can be displayed.

Capable of displaying several fine 10-dot characters or one 240 dots character in full screen

Transformer-isolated power supply

The isolated power supply enhances the reliability.



















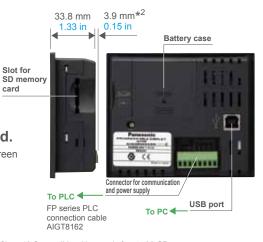


3.5 inch STN*3 4,096 colors QVGA LCD with a wide viewing angle

GT05S

A wide viewing angle (50 deg horizontally, 60 deg vertically) has been achieved, improving visibility from different angles.

Bright LED backlight adopted



- *1 Class 10 Compatible with a card of up to 32 GB.
- *2 Note that the communication and power supply connector projects an additional 3.9 mm 0.15 in.
 - Also take the cable diameter must be taken into account.
- *3 Display device of GT05S will be changed to TFT color LCD from production in December 2011.
- The panel face protection sheet for the GT series is available as an option.

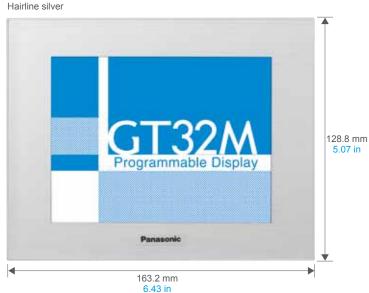
GT32M

Programmable Display

Clear and beautiful display achieved by the blue LCD long-life backlight

5.7 inch (€ ເຟຼເພs **GT** series





5.7 inch blue LCD equipped with 75,000 hours long life backlight

Although the backlight is a CFL type, it can last as long as 75,000 hours *1, reducing maintenance frequency.*2

Industry's smallest size in the class, and 39.1 mm 1.54 in thin and cool body design

Large display with space-saving outer dimensions of 163.2 x 128.8 x 39.1 mm $6.43 \times 5.07 \times 1.54$ in

SD / SDHC memory card slot as standard equipment*3

Easy to copy, back up, and restore screen data.

USB interface as standard equipment

You can connect your PC and GT32 using your USB cable to transfer screen data. When used with our FP series PLC, this display supports the through function, which allows simultaneous debugging of the PLC and the display.

Transformer-isolated power supply

The isolated power supply enhances the reliability.



FP series PLC connection cable

AIGT8162

*1 The backlight life varies depending on the environmental conditions of use, including the temperature, humidity, and operating voltage.

- *2 The backlight type for GT32M cannot be changed.
- *3 Class 10 Compatible with a card of up to 32 GB.
- *4 Note that the communication and power supply connector projects an additional 5.2 mm 0.21 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.





















GT32T

Programmable Display

Amazingly beautiful and vivid 4,096 colors TFT LCD

5.5 inch (€ ເຟຼັ⊥ us **GT** series





Slot for SD memory card

USB port

To PLC and power supply FP series PLC connection cable

Ethernet port (GT32T1)

Sound output jack (GT32T1)

Connector for communication

To PC◀

AIGT8162

1.54 in

0.21 in

4,096 colors TFT LCD screen displays magnificent quality images.

Industry's smallest size in the class, and 39.1 mm 1.54 in thin and cool body design

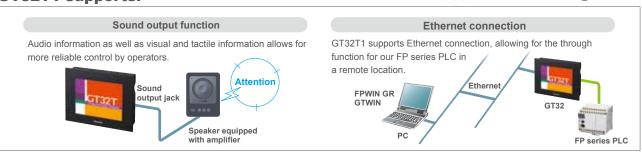
SD / SDHC memory card slot as standard equipment*1

Useful for copying, backing up, and restoring screen data, and for saving sound files Sound files can also be saved in the internal memory of the display.

USB interface as standard equipment

Transformer-isolated power supply

GT32T1 supports:

























- *1 Class 10 Compatible with a card of up to 32 GB.
- *2 Note that the communication and power supply connector projects an additional 5.2 mm 0.21 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.

GTWIN Ver.2

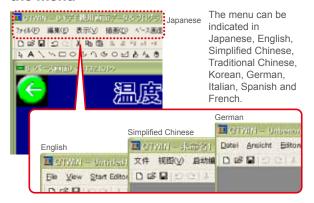
Screen Creation Tool for the GT series

User-friendly interface makes screen creation easier.



Compatible with Windows®7

Compatible with the nine languages for the menu



Simply drag-and-drop parts.



You can easily create screens by just dragging parts from the library and dropping them anywhere you want.

More user-friendly parts libraries



In the previous version, the required parts library had to be selected from the menu every time it was needed. The new version displays a list of parts libraries, making them more user-friendly. You can also freely set the parts library window size.

Just drag-and-drop your original parts to be registered.



You can also register your preset original parts easily by drag-and- drop operations.

4,096 colors 3D design buttons

(for GT05S, GT32T and GT32T-E)



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

Screen copy in bitmap form

You can output screen images in bitmap form and use them in off-the-shelf applications. This is useful for preparing equipment operation manuals.

Function to turn on/off the display of keyboard parts on the base screen

Indications of data parts in Japanese, Simplified chinese, Traditional chinese, and Korean













- * Windows®: The 64-bit version is not supported.
- GTWIN Ver. 2.8 or later is not compatible with Windows® 95, 98, Me or NT.

GTseries PLC Compatibility Table

odels listed are the models that have been evaluated as of July, 2011.

Company	Series	Model	GT02(L), GT RS232C type	05, GT12, GT32 RS422/RS485 type*2	Company	Series						
		FP-X	0	0								
		FPΣ	0	0								
Panasonic Electric		FP-e	0	0								
Works SUNX	FP series	FP series	FP0	0	0		CS1 series					
		FP0R FP2	0	0								
		FP2SH	0	Ö								
		FX0N	Ö	0	Omron*1							
		FX1S	Ŏ	0								
		FX1N	0	0								
	FX series	FX series	FX1NC	0	0		CJ series					
			FX series	FX series	FX2N	0	0		Co series			
		FX2NC	0	0								
		FX3UC	0	0		004						
		FX3U	0	0		CP1 series						
		FX3G Q00CPU	<u> </u>	0								
		Q01CPU	0		Toshiba Machine*1	TC mini series						
		Q00JCPU	Ö									
		Q00HCPU	Ö									
		Q00UJCPU	0									
Mitsubishi	Q series	Q26UDHCPU	Ö	0								
Electric*1		Q25HCPU	0									
		Q12HCPU	0		Yokogawa Electric*1	FA-M3 series						
		Q06HCPU	0		. oogawa Licotife .	No scries						
		Q02HCPU	0									
		Q02CPU	<u> </u>									
	A series	A1N	0									
		A2N A3N	0									
		A1S	0									
		A1SJ	Ö									
		A2SH	ŏ		KEYENCE*1	KV series						
		A1SH	0									
		A2CCPU24	0									
	L series	L26CPU-BT	0	0								
		C200H	0			EH-150 EHV series						
		C200HS	©									
		C500	0									
			C500F C1000H	0								
					C2000				EH150 series			
								C2000H	0			LITIOU Selles
										C1000HF	0	
		C20H	0		Equipment Systems*1							
	C series	C28H	0		o you me							
	C selles	C40H	0									
		C120	0			MICRO-EH series						
		C120F	0									
		CQM1-CPU42	0									
		SRM1-C02	0									
		CPM2A CPM1-20CDR-A	0			Web controller						
		CPM1-20CDR-A CQM1H-CPU21	0									
		CPM2C	0		Rockwell	MicroLogix series						
		CPM2B	0		Automation*1 (Allen-Bradley)	.,						
		C200HE-CPU32-Z	0		Models that support protocol	01.0.505						
		C200HE-CPU32	0		p. 310001	SLC-500 series						
Omron*1		C200HG-CPU33-Z	0									
		C200HG-CPU33	0									
		C200HG-CPU53-Z	0		Siemens*1	S7-200 series						
		C200HG-CPU53	0									
		C200HX-CPU34-Z	0									
		C200HX-CPU34	0									
		C200HX-CPU54-Z C200HX-CPU54	0		LS Industrial Systems*1	MASTER-K series						
		C200HE-CPU42-Z	0		,							
	α series	C200HE-CPU42	0		Modbus*1	Models that support RTU protocol						
		C200HG-CPU43-Z	0			Our dedicated protocol						
		C200HG-CPU43	0									
		C200HG-CPU63-Z	0			Panasonic Electric W						
		C200HG-CPU63	0			addresses. Please se may not be possible w						
		C200HX-CPU44-Z	0		timing with the of	ther device.						
		C200HX-CPU44	0		*3 We cannot speci equipment before	fy what other device y e using.						
		C200HX-CPU64-Z	0		*4 Available for mod	dels equipped with on						
		C200HX-CPU64	0		Direct connecti	on is possible to the C						
		C200HX-CPU65-Z C200HX-CPU85-Z	0			oossible using the com QJ71C24N or QJ71C						
		CV500	0		Mitsubishi Q S	eries.)						
					× : Connection is r							
	CV series	CV1000	0		Blank: Not evaluate	d.						

_	10	nodels listed are the l		5, GT12, GT32
Company	Series	Model	RS232C	RS422/RS485
			type	type*2
		CS1H-CPU67	0	
		CS1H-CPU66	0	
		CS1H-CPU65	0	
		CS1H-CPU64	0	
	CS1 series	CS1H-CPU63	0	
			0	
		CS1G-CPU45	-	
Omron*1		CS1G-CPU44	0	
Omron-1		CS1G-CPU43	0	
		CS1G-CPU42	0	
		CJ1H	0	
	CJ series	CJ1M	0	
	00 001100	CJ1G	0	
		CJ2H	0	
		CP1H	0	
	CP1 series	CP1L	0	
		CP1E	◎*4	0
			0	0
Toshiba Machine*1	TC mini series		Models with RS232 port	Models with RS485 port
		F3SP59-7S	0	
		F3SP59-7S F3SP58-6S	0	
			_	
		F3SP58-6H	0	
		F3SP53-4S	0	
		F3SP53-4H	0	
′okogawa Electric*¹	FA-M3 series	F3SP38-6S	0	
C.TOGUNA LICCUIC.	17 WIO SELLES	F3SP38-6N	0	
		F3SP35-5N	0	
		F3SP28-3S	0	
		F3SP28-3N	0	
		F3SP25-2N		
			0	
		F3SP21-0N	0	
		KV-10/16/24/40	0	_
		KV700	0	0
KEYENCE*1	KV series	KV1000	0	0
		KV3000	0	0
		KV5000	0	0
		EHV-CPU128	0	0
		EHV-CPU64	0	0
	EH-150 EHV series	EHV-CPU32	0	0
			_	_
		EHV-CPU16	0	0
		EH-CPU104A	0	0
		EH-CPU208A	0	0
	EH150 series	EH-CPU316A	0	0
		EH-CPU516	0	0
Hitachi Industrial		EH-CPU548	0	0
Equipment Systems*1		10-point		
-, 5.03		14-point	0	
		20-point	0	
	MICRO-EH series		0	0
	orto-El i selles	23-point	_	0
		28-point	0	9
		40-point	0	
		64-point	0	
	Web controller	10-point	0	
		23-point	0	0
		MicroLogix500	0	
Rockwell	MicroLogix series	MicroLogix1000	0	
Automation*1 (Allen-Bradley)		MicroLogix1100	0	
Models that support		SLC-5/03	0	
protocol	SLC-500 series	SLC-5/04	0	
			0	0
		CPU222	_	_
	0.000	CPU216	0	0
Siemens*1	S7-200 series	CPU215	0	0
		CPU214	0	0
		CPU212	0	0
		80S	0	
			0	
I C Indicataia		2008		
LS Industrial Systems*1	MASTER-K series	200S 300S	_	
LS Industrial Systems*1	MASTER-K series	300S	0	
Systems*1		300S 1000S	0	
	Models that support RTU protocol	300S	0	0

orks SUNX FP series may be limited in the type of device that ee manual for details. when using RS485 depending on the sending and receiving

Refer to the "Technical Support Page" of our website (http://panasonic-denko.co.jp/ac/e) for details, including the latest version of Terminal GTWIN, usable devices and addresses.

you should use; therefore, please test it using the actual

n RS232C port.
CPU unit of the PLC.
mmunications unit or a signal conversion cable, etc.
C24N-R2 calculator link unit is required when using the

GTseries | Part Number List

Main Unit and Tool Software

Product name	LCD	Power emply	Description Communication port	Color of front panel	SD momory eard elet	Part number											
	FCD	Power supply	Communication port	Color of front panel	SD memory card slot	A1000:											
GT32M-E (Tough Series)	TFT monochrome LCD	24 V DC	RS232C	Silver	Available	AIG32MQ03											
			RS422 / RS485			AIG32MQ05											
GT32T-E (Tough Series)	TFT color LCD	24 V DC	RS232C	Silver	Available	AIG32TQ03											
			RS422 / RS485			AIG32TQ05											
GT02L	STN monochrome LCD	5 V DC	RS232C	Black	Not available	AIG02LQ02											
	(white backlight)		RS422 / RS485			AIG02LQ04											
			RS232C	Pure black		AIG02MQ02											
		5 V DC	1102020	Hairline silver		AIG02MQ03											
		0 4 20	RS422 / RS485	Pure black		AIG02MQ04											
			1104227110400	Hairline silver	Not available	AIG02MQ05											
				Pure black	Not available	AIG02MQ12											
CTOOM	STN monochrome LCD		RS232C	Hairline silver		AIG02MQ13											
GT02M	(white/pink/red backlight)			Pure black]	AIG02MQ14											
			RS422 / RS485	Hairline silver		AIG02MQ15											
		24 V DC		Pure black		AIG02MQ22											
			RS232C	Hairline silver		AIG02MQ23											
				Pure black	- Available	AIG02MQ24											
			RS422 / RS485	Hairline silver		AIG02MQ25											
				Pure black		AIG02IVIQ20											
			RS232C	Hairline silver													
		5 V DC		Pure black	-	AIG02GQ03											
			RS422 / RS485														
	-			Hairline silver	Not available	AIG02GQ05											
			RS232C	Pure black		AIG02GQ12											
GT02G	STN monochrome LCD			Hairline silver	_	AIG02GQ13											
	(green/orange/red backlight)	24 V DC	RS422 / RS485	Pure black		AIG02GQ14											
				Hairline silver		AIG02GQ15											
			RS232C	Pure black		AIG02GQ22											
				Hairline silver	- Available	AIG02GQ23											
			RS422 / RS485	Pure black	Available	AIG02GQ24											
			1101227110100	Hairline silver		AIG02GQ25											
		1 24 V DC -	RS232C	Pure black	Available	AIG05MQ02											
GT05M	STN monochrome LCD		24 V DC -	24 V DC	24 V DC -	l 24 V DC	TN monochrome LCD hite/pink/red backlight) 24 V DC	Hairline silver	Available	AIG05MQ03							
GTOSW	(white/pink/red backlight)							24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 4 00	2-7 V DO	27 1 00	2.400	24 V DC
			RS422 / RS485	Hairline silver	Available	AIG05MQ05											
									Pure black	Available	AIG05GQ02						
07000	STN monochrome LCD	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC -	041//00			RS232C	Hairline silver		AIG05GQ03				
GT05G	(green/orange/red backlight)							Pure black		AIG05GQ04							
			RS422 / RS485	Hairline silver	Available	AIG05GQ05											
				Pure black		AIG05SQ02											
			RS232C	Hairline silver	Available	AIG05SQ03											
GT05S	STN color LCD *1	24 V DC		Pure black		AIG05SQ04											
			RS422 / RS485	Hairline silver	Available	AIG05SQ05											
				Pure black		AIG12MQ02											
			RS232C	Hairline silver	Not available	AIG12MQ02											
				Pure black													
			RS422 / RS485		Not available	AIG12MQ04											
GT12M	STN monochrome LCD	24 V DC		Hairline silver		AIG12MQ05											
	(white/pink/red backlight)		RS232C	Pure black	Available	AIG12MQ12											
				Hairline silver		AIG12MQ13											
			RS422 / RS485	Pure black	Available	AIG12MQ14											
				Hairline silver		AIG12MQ15											
			RS232C	Pure black	Not available	AIG12GQ02											
				Hairline silver		AIG12GQ03											
			RS422 / RS485	Pure black	Not available	AIG12GQ04											
GT12G	STN monochrome LCD	24 V DC	110427 110400	Hairline silver		AIG12GQ05											
01120	(green/orange/red backlight)	24 V DC	Dessac	Pure black	Avoilable	AIG12GQ12											
			RS232C	Hairline silver	Available	AIG12GQ13											
				Pure black		AIG12GQ14											
			RS422 / RS485	Hairline silver	Available	AIG12GQ15											

^{*1} Display device of GT05S will be changed to TFT color LCD from production in December 2011.

Main Unit and Tool Software

Product name		Part number				
Froduct name	LCD	Power supply Communication port 0		Color of front panel	SD memory card slot	Fait number
			RS232C	Pure black	Available	AIG32MQ02D
GT32M	STN monochrome LCD	24 V DC	R32320	Hairline silver	Available	AIG32MQ03D
G132W	314 Honochionie ECD	24 V DC	RS422 / RS485	Pure black	Available	AIG32MQ04D
			K3422 / K3463	Hairline silver	Available	AIG32MQ05D
			RS232C	Pure black	Available	AIG32TQ02D
GT32T0	TFT color LCD	24 V DC	1.02020	Hairline silver	Available	AIG32TQ03D
0.02.0			RS422 / RS485	Pure black	Available	AIG32TQ04D
			110422 / 110403	Hairline silver	Available	AIG32TQ05D
			RS232C	Pure black	Available	AIG32TQ12D
GT32T1	TFT color LCD	24 V DC	R32320	Hairline silver	Available	AIG32TQ13D
0.02.1	TT T COIGH EGD	24 1 20	RS422 / RS485	Pure black	Available	AIG32TQ14D
			110422 / 110403	Hairline silver	Available	AIG32TQ15D
Terminal GTWIN Ver.2	Japanese version		Terminal GTWIN	CD-ROM		AIGT8000V2
Tommar STVVIII VOI.2	English version		Terminal GTWIN	CD-ROM		AIGT8001V2
Terminal GTWIN Ver.2	Japanese version		Terminal GTWIN	CD-ROM		AIGT8000V2R
Upgrade version *	English version		Terminal GTWIN	CD-ROM		AIGT8001V2R

^{*} For upgrading Terminal GTWIN Ver. 1 to Ver. 2.

Cables PLC connection cable

Power supply and communication port	Connection cable	PLC
5 V DC and RS232C	(GT side) (PLC side) Part No.: AIGT8142*, PLC connection cable (2 m 6.6 ft), 5-pin mini DIN connector — 4 single wires + Shielding wire	Our FP Series
5 V DC and RS422 / RS485	Part No.: AIGT8152*, PLC connection cable (2 m 6.6 ft), 8-pin mini DIN connector — 6 single wires + Shielding wire	Mitsubishi Electric FX Series
24 V DC and RS232C	Part No.: AIGT8162, PLC connection cable (2 m 6.6 ft), 5-pin mini DIN connector — 3 single wires + Shielding wire AIGT8165 (5 m 16.4 ft) and AIGT8160 (10 m 32.8 ft) are also available.	Our FP Series
24 V DC and RS422 / RS485	Part No.: AIGT8175, PLC connection cable (5 m 16.4 ft), 8-pin mini DIN connector — 4 single wires + Shielding wire	Mitsubishi Electric FX Series
24 V DC and RS232C	Part No.: AIP81842 , PLC connection cable (2 m 6.6 ft), 9-pin D-SUB connector — 6 single wires	FP2/FP2SH COM port, 9-pin D-SUB connector example, CCU

^{*}This cable is for GT series (5 V DC), and power is supplied through the TOOL port.

GTseries | Part Number List

Options



■ Panel face protection sheets
10 sheets in a set (option)



■ Waterproof packing Waterproof packing (for replacement), 10 pieces in a set Package includes one piece.



■ GT02 / GT02L / GT12 mounting parts

5 sets of mounting parts (4 parts / set) Package includes one set.



■ GT05 / GT32 / GT32-E mounting parts
5 sets of mounting parts

(2 parts / set)
Package includes one set.



■ Spare connector

5 connectors for communication and power supply in a set Package includes one set.



■ GT02 / GT05 / GT12 / GT32 /GT32-E backup battery

Part No.: AIGT084

Part No.: AFPX-BATT

GT02L / GT	02 Part No.: AIG02800
GT05	Part No.: AIG05800
GT12	Part No.: AIG12800
GT32	Part No.: AIG32800

GT02L / GT02 Part No.: AIG02810 GT05 Part No.: **AIG05810** Part No.: **AIG12810** GT12 GT32 Part No.: **AIG32810** GT32-E Part No.: AIG32810E

* The waterproof packing for GT02(L) is different from the GT02L main unit accessory.

Part No.: **AIG12830** For GT02 / GT02L / GT12 Part No.: AIGT28321 For GT05

Part No.: **AIG32830** For GT32 / GT32-E

GTseries | SPECIFICATIONS

		GTS	22M-E		GT3	:2T-E						
	Item	RS232C	RS422/RS485		RS232C	RS422/RS485						
Rated volta	age			24 V DC								
Operating	voltage range		21	.6 to 26.4 V DC								
Power con	sumption	4.8 W	or less		7.2 W	or less						
Power supply	unit isolation method		Tra	nsformer isolation								
Ambient te	mperature		-20 to +	60 °C -4 to +140 °F	*5							
Ambient hu	umidity		10 to 90 %RH (at	25 °C 77 °F), No co	ndensation							
Storage ter	mperature		-20 to	+60 °C -4 to +140 °F								
Storage hu	ımidity		10 to 90 %RH (at	25 °C 77 °F), No co	ndensation							
Vibration re	esistance	5 to 8.4 Hz,	amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz, accel	eration 9.8 m/s ² , 10 sv	weeps each in X, Y and Z directions (1	octave / min.)						
Shock resi	stance		147 m/s², 3 times in	each of the X, Y and	d Z directions							
Superposed	noise suppression	1	,000 V [P-P] or more, pulse width of 50 ns,	μs between power	supply terminals (by a noise simulate	or)						
Environme	ental resistance	IP67 (in the initial sta	ges), Dust-proof and drip-proof from the fron	of the panel only (F	Rubber packing is attached to the par	nel contact surface.) *1						
Mass				470 g approx.								
	Display device	TFT mono	chrome LCD		TFT co	lor LCD						
	Resolution		320	(W) x 240 (H) dots								
Display	Display color	2 colors (black/w	nite, 16-gray scale)		4096	colors						
	Displayable area		115.2 (W) × 86.4	(H) mm 4.54 (W) ×	3.40 (H) in							
	Backlight			White LED								
	Font types	Fixed (C	Fixed (GTWIN): 8 x 8, 16 x 8, and 16 x 16 dots, Characters can be displayed in the 1, 2, 4, or 8 times width or height, True Type (GTWIN): 10 to 240 dots, Windows®: 10 to 240 dots									
	Languages	Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, Italian, Spanish, French, and Turkish										
	Graphics	Straight lines, Continuous straight lines, Squares, Circles, Ovals, Arcs, Elliptic arcs, Fan shapes, Elliptic fan shapes, Beveled squares, and Bitmaps										
	Number of screens *2	Straight lines, Continuous straight lines, Squares, Choles, Ovais, Arus, Elipho and S, Fan Shapes, Develed squares, and Diffrages 180 screens approx.										
	Screen setting No.	Base screens: No. 0 to 3FF, Key board screens: No. 0 to 7, Login screens: No. 0 to F										
	Part functions	Messages, Lamps, Switches, Function switches, Data, Bar graphs, Clocks, Keyboards, Line graphs, Alarm list, Alarm record, and Custom parts (messages, lamps, switches)										
Functions	Other functions	Recipe, Flow display, Write device, Multiple PLC connection, FP monitor, Language switching, GT link, Operation security, Data logging, and SD recipe *3										
	Clask function											
	Clock function Backlight brightness	Provided with a built-in clock. (Can also refer to and display a PLC clock.) * Buy a commercially available battery.										
	adjustment	Can be set on the menu screen, via the GT configuration screen of GTWIN, or via PLC.										
	Contrast adjustment		Contrast can be ac	justed by using the	louch panel.							
	Buzzer Automatic	_		Installed								
	communication settings	The c	ommunication speed (baud rate) is automati									
	Through function		GT connected between PC and PLC allows			.						
	Screen creation		Dedicated software should be use		indows® 2000/XP/Vista/7 *6							
Touch key		Free layout (8 dots min.)										
	operation force			0.8 N or less								
Touch key	Communication	0(ions or more (at 25 °		0.001,000,100,000,100,100						
	standard	Conforms to RS232C	Conforms to RS422 / RS485		Conforms to RS232C	Conforms to RS422 / RS485						
COM.	External communication conditions	Baud rate: 9,600 bps, 19,200 bps, 38,400 bps, 57,600 bps, and 115,200 bps Data bits: 7 or 8 bits, Parity: None, Odd, Even, Stop bits: 1 bit										
	Protocol	Our FP series supported, General-purpos	e serial interface supported, and Other com	panies' PLC supporte	ed (Refer to the "PLC COMPATIBILI"	TY TABLE" for manufacturers and models.)						
	Connector		Connecto	r terminal block (8 pi	ns)							
	Communication standard			USB1.1								
Screen data	Communication conditions with PC	-										
transfer interface	Protocol	Our dedicated protocol										
menace	Connector			USB TYPE-B								
	Ethernet port *4			-								
User's	Memory			F-ROM								
memory	Capacity			12 Mbyte								
Momoni	Memory			SRAM								
Memory backup	Backup battery		Lithium battery (replaceable)		not come with product.							
		Lithium battery (replaceable) AFPX-BATT *Does not come with product.										

Conformance to the UL / cUL standards

UL / cUL file No.	E96300
UL standard No.	UL508

- *1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing.
- $^{\star}2~$ The number of screens that can be registered varies according to the registered contents.
- $^{\star}3$ The data logging and SD recipe functions are available with only models equipped with an SD/SDHC memory card slot.
- *4 Simultaneous USB and Ethernet communications are not possible.
- *5 When the unit is being installed in a horizontal orientation, the usable range is -20 to +55 °C -4 to +131 °F.
- *6 Not compatible with any 64-bit version of Windows.

GTseries | SPECIFICATIONS

		GT02L GT0			02	GT05M / 0	GT05G	GT05S			
	Item	5 V / RS232C	5 V / RS422 / RS485	5 V / RS232C 5 V / RS422 /	24 V / RS232C 24 V / RS422 /	RS232C	RS422 / RS485	RS232C	RS422 / RS485		
Rated volta	age		5 V DC	1.00.000	110100		24 V DC				
Operating	voltage range		4.5 to 5.5 V DC			21.6 to 26.4 V DC					
Power cons	sumption		1 W or less		1.9 W or less	2.4 W or	rless	3.6 W or	less		
Power supply	unit isolation method			_			Transform	ner isolation			
Ambient te	mperature				0 to 50 °C 3	32 to 122 °F					
Ambient hu	umidity				20 to 85 % RH (at 25 °C	77 °F), No condensation					
Storage ter	mperature				–20 to 60 °C	–4 to 140 °F					
Storage hu					10 to 85 % RH (at 25 °C	77 °F), No condensation					
Vibration re		5 to 8.4 Hz amplitude: 3.5 mm 0.1	4 in, 8.4 to 150 Hz acceleratio	n 9.8 m/s², 10 sweeps each in X, Y	and Z directions (1 octave/min.)	10 to 55 Hz (1 minute cycle): I	Double amplitude: 0.75 m	m 0.03 in, 10 minutes in each of	the X, Y, and Z directions		
Shock resis	stance	14	7 m/s², 3 times in each	of the X, Y and Z direction	is	98 m/s²	or more, 4 times in ea	ach of the X, Y, and Z directi	ons		
Superposed	noise suppression		1	,000 V [P-P] or more, puls	e width of 50 ns, 1 µs bet	tween power supply termin	als (by a noise simula	tor)			
Environme	ntal resistance	IP65 (in the in	nitial stages) *1	IP67 (in the in	itial stages) *1		IP65 (in the	initial stages) *1			
Mass		150g ap		170g a			230g	approx.			
	Display device			STN monoc	-			STN color	LCD *2		
	Resolution	160 (W) × 64	4 (H) dots	240 (W) × 9			320 (W) ×	240 (H) dots			
	Display color		()	2 colors (b)				4,096 cd	olors		
Display	Displayable area	88.0 (W) × 35.2 (H) mm	3.46 (W) × 1.39 (H) in	88.5 (W) × 35.4 (H) mm	· · · · · · · · · · · · · · · · · · ·		71.0 (W) × 53.3 (H) m	m 2.80 (W) × 2.10 (H) in			
	Backlight	White		GT02M: 3-color LE GT02G: 3-color LED	D (white, pink, red)	GT05M: 3-color LED	(white, pink, red)	White L	.ED		
	Font types	Fixed (GTWIN) : 8 x 8, 16 Characters can be displ 8 times width TrueType (GTWIN Windows®: 10	ayed in the 1, 2, 4, or n or height, I): 10 to 64 dots	Fixed (GTWIN) : 8 x 8, Characters can be disp 8 times widt TrueType (GTWI	16 x 8, and 16 x 16 dots blayed in the 1, 2, 4, or h or height.	F Characters	color LED (green, orange, red) Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, Characters can be displayed in the 1, 2, 4, or 8 times width or height. TrueType (GTWIN): 10 to 240 dots, Windows®: 10 to 240 dots				
	Languages		d Turkish								
	Graphics		Straight lines, Continu	ous straight lines, Squares	s, Circles, Ovals, Arcs, Ell	liptic arcs, Fan shapes, Elli	ptic fan shapes, Bevel	ed squares and Bitmaps			
	Number of screens *3	80 screens approx.		250 screer		240 screens		180 screens	approx.		
	Screen setting No.				No. 0 t						
	Part functions	. Messages, Lamps, Switches, Function switches, Data, Bar graphs, Clocks, Keyboards, Line graphs, Alarm list, and Custom parts (messages, lamps, switches)									
Functions	Other functions		Recip	e, Flow display, Write devi	ce, Language switching, (GT link, Operation security	, Data logging and SD	recipe*4			
	Clock function		-		Provided with a built-in clock. (Can also refer to and display a PLC clock.) *Buy a commercially available battery. Note: For the GT02 series, only GT02M2 and GT02G2 have a built-in clock.						
	Contrast adjustment			(Contrast can be adjusted	by using the touch panel.					
	Buzzer	_				Install	led				
	Automatic communication settings		The o	ommunication speed (bau	d rate) is automatically ch	nanged if there is no respor	nse from the target equ	uipment.			
	Through function			GT connected between P	C and PLC allows PLC to	be debugged without a di	rect connection to a P	C.			
	Screen creation	Dedicated software should be used. Applicable OS: Windows® 2000/XP/Vista/7*7									
Touch key	resolution				Free layout ((8 dots min.)					
Touch key	operation force				0.8 N c	or less					
Touch key					1 million operations or	more (at 25 °C 77 °F)					
	Communication standard	Conforms to RS232C	Conforms to RS422 / RS485	Conforms Conforms to to RS232C RS422 / RS485	Conforms to to RS232C RS422 / RS485	Conforms to RS232C	Conforms to RS422 / RS485	Conforms to RS232C	Conforms to RS422 / RS485		
COM.	External communication conditions					400 bps, 57,600 bps, and 1 one, Odd, Even, Stop bits:					
	Protocol	Our FP series su	ipported, General-purp	ose serial interface suppor	ted, Other companies' PL	_C supported (Refer to the	"PLC COMPATIBILIT"	Y TABLE" for manufacturers	and models.)		
	Connector				Connector termin	nal block (8 pins)					
	Communication standard				USE	31.1					
Screen data	Communication conditions with PC										
transfer	Protocol				Our dedicat	cated protocol					
interface	Connector		USB	Mini B	Our dedicated protocol USB TYPE-B						
	Ethernet port *5				— OSR I LAF-R						
Hee-'-	Memory				F-R	OM					
User's memory	Capacity	704 KI	byte		2 MI			12 Mb	vte		
		70-711			£ IVII		SRAM *6	12 WID	, 		
Memory backup Backup battery — SRAM *6 Lithium battery (replaceable) AFPX-BATT (D				oes not come with product \	k6						

Conformance to the UL / cUL standards

UL / cUL file No.	E96300
UL standard No.	UL508

- *1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing.
- *2 Display device of GT05S will be changed to TFT color LCD from production in December 2011.
- *3 The number of screens that can be registered varies according to the registered contents.
- *4 The data logging and SD recipe functions are available with only models equipped with an SD / SDHC memory card slot.
- $^{\star}5\,$ Simultaneous USB and Ethernet communications are not possible.
- $^{*}\!6\,$ Among GT02 series, available for GT02M2 and GT02G2 only.
- *7 Not compatible with any 64-bit version of Windows®.

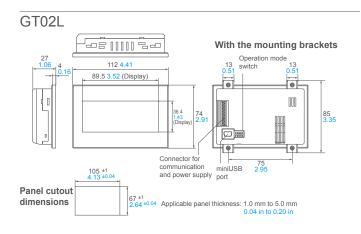
		GT12	GT32M	GT32T0	GT32T1		
	Item	RS232C RS422 / RS485	RS232C RS422 / RS485	RS232C RS422 / RS485			
Rated voltage		24 V DC					
Operating	voltage range	21.6 to 26.4 V DC					
Power consumption		1.7 W or less	10 W or less 12 W or less				
Power supply unit isolation method			Transformer isolation				
Ambient temperature		0 to 50 °C 32 to 122 °F 0 to 50 °C 32 to 122 °F*5					
Ambient humidity		20 to 85 % RH (at 25 °C 77 °F), No condensation					
Storage temperature		–20 to 60 °C –4 to 140 °F					
Storage humidity		10 to 85 % RH (at 25 °C 77 °F), No condensation					
Vibration resistance		5 to 9 Hz amplitude: 3.5 mm 0.14 in, 9 to 150 Hz acceleration 9.8 m/s², 10 sweeps each in X, Y and Z directions (1 octave/min.)	19.8 m/s ² . 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions				
Shock resistance		147 m/s 2 , 3 times in each of the X, Y and Z directions	98 m/s ² or more, 4 times in each of the X, Y, and Z directions				
Superposed noise suppression			1,000 V [P-P] or more, pulse width of 50 ns, 1 µs between power supply terminals (by a noise simulator)				
Environmental resistance		IP67 (in the initial stages)*1	IP65 (in the initial stages)* ¹				
Mass		240 g approx.	500 g approx.	470 g	480 g approx.		
	Display device	STN monochrome LCD TFT color LCD					
	Resolution	320 (W) × 120 (H) dots	320 (W) × 240 (H) dots				
Display	Display color	2 colors (black/white, 8-gray scale)	2 colors (blue/white)		,096 colors		
	Displayable area	108.8 (W) × 40.8 (H) mm 4.28 (W) × 1.61 (H) in	113.2 (W) × 86.4 (H) mm 4.46 (W) × 3.40 (H) in		I) mm 4.36 (W) × 3.29 (H) in		
	Backlight	GT12M: 3-color LED (white, pink, red) GT12G: 3-color LED (green, orange, red)	CFL *Not replaceable. Average life for backlight; GT32M: 75,000 hours (at 25 °C 77 °F), GT32T: 50,000 hours (at 25 °C 77 °F)				
	Font types	Fixed (GTWIN): 8 x 8, 16 x 8, and 16 x 16 dots Characters can be displayed in the 1, 2, 4, or 8 times width or height. True Type (GTWIN): 10 to 120 dots	Fixed (GTWIN): 8 x 8, 16 x 8, and 16 x 16 dots, Characters can be displayed in the 1, 2, 4, or 8 times width or height. True Type (GTWIN): 10 to 240 dots, Windows [®] : 10 to 240 dots				
	Languages	Japane	se, English, Simplified Chinese, Traditional Chines	se, Korean, German, Italian, Spanish, French,	and Turkish		
	Graphics	Straight lines, Continuous straight lines, Squares, Circles, Ovals, Arcs, Elliptic arcs, Fan shapes, Elliptic fan shapes, Beveled squares and Bitmaps					
	Number of screens *2	2-gray scale: 250 screens approx., 8-gray scale: 200 screens approx.	240 screens approx.	180 s	creens approx.		
	Screen setting No.		No. 0	to 3FF			
	Part functions	Messages, Lamps, Switches, Function switches, Data, Bar graphs, Clocks, Keyboards, Line graphs, Alarm list, and Custom parts (messages, lamps, switches)					
Functions	Other functions	Recipe, Flow display, Write device, Multiple PLC connection, FP monitor, Language switching, GT link, Operation security, Data logging and SD recipe*3 Sound output *6					
	Clock function	Provided with a built-in clock. (Can also refer to and display a PLC clock.) *Buy a commercially available battery.					
	Contrast adjustment	Contrast can be adjusted by using the touch panel. Not adjustable					
	Buzzer	Installed					
	Automatic communication settings	The communication speed (baud rate) is automatically changed if there is no response from the target equipment.					
	Through function	GT connected between a PC and PLC allows the PLC to be debugged without a direct connection with the PC.					
	Screen creation	Dedicated software should be used. Applicable OS: Windows® 2000/XP/Vista/7*9					
Touch key	resolution	Free layout (8 dots min.)					
Touch key	operation force	0.8 N or less					
Touch key		Conforms to	· · · · · · · · · · · · · · · · · · ·	more (at 25 °C 77 °F)	Conforms to		
COM.	External communication conditions	Conforms to RS232C Conforms to RS422 / RS485		Conforms to RS232C Conforms to RS422 / RS485 400 bps, 57,600 bps and 115,200 bps one, Odd, Even, Stop bits: 1 bit			
port	Protocol	Our FP series supported, General-purpose serial interface supported, Other companies' PLC supported (Refer to the "PLC COMPATIBILITY TABLE" for manufacturers and models.)					
	Connector	Connector terminal block (8 pins)					
Screen data transfer interface	Communication	USB1.1					
	Standard Communication conditions with PC						
	Protocol	Our dedicated protocol					
	Connector	USB Mini B	Sai dedica	USB TYPE-B			
	Ethernet port *4		_		Yes (100BASE-TX, 10BASE-T) *7. *8		
Heart	Memory		F-R	OM			
User's memory Memory	Capacity	2 Mbyte	2 Mbyte		(Ver.1.10 or later)		
	Memory	·	SR				
backup	Backup battery		Lithium battery (replaceable) AFPX-BATT *Does not come with product.				
		Elistici delleti (reprocedente) i i i i din i di delle villi product.					

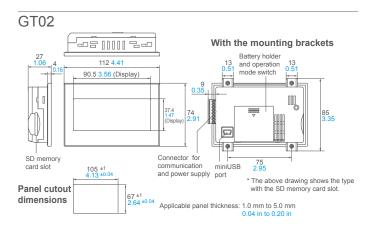
Conformance to the UL / cUL standards

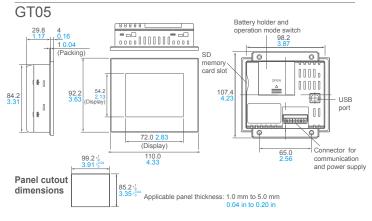
UL / cUL file No.	E96300	
UL standard No.	UL508	

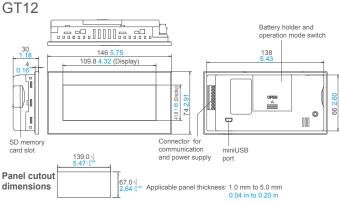
- *1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing.
- *2 The number of screens that can be registered varies according to the registered contents.
- *3 The data logging and SD recipe functions are available with only models equipped with an SD / SDHC memory card slot.

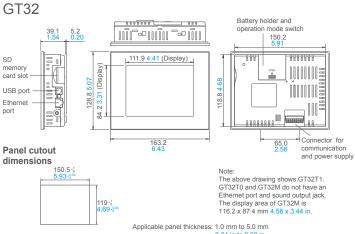
 *4 Simultaneous USB and Ethernet communications are not possible.
- *5 When the unit is being installed in a horizontal orientation, the usable range is 0 to +40 $^{\circ}$ C 32 to +104 $^{\circ}$ F.
- *6 WAV format (PCM, 8 KHz sampling rate, 16 bits, monaural), Maximum sound data capacity: 512 KB (30 sec, approx.), Maximum registrable number of sound data items: 128
- *7 The unit caries out serial communication data processing at 115.2 kbits/s.
- *8 Communications with external equipment (PLC) are not available.
- *9 Not compatible with any 64-bit version of Windows®.

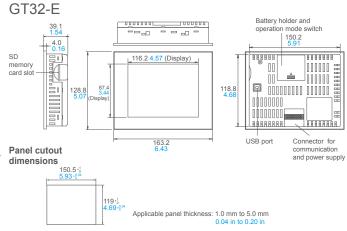












Please contact

Panasonic Electric Works SUNX Co., Ltd.

2431-1 Ushiyama-cho, Kasugai-shi, Aichi, 486-0901, Japan

■Telephone: +81-568-33-7211 ■Facsimile: +81-568-33-2631

Global Sales & Marketing Division

■Telephone: +81-568-33-7861 ■Facsimile: +81-568-33-8591

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