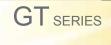


Programmable Display







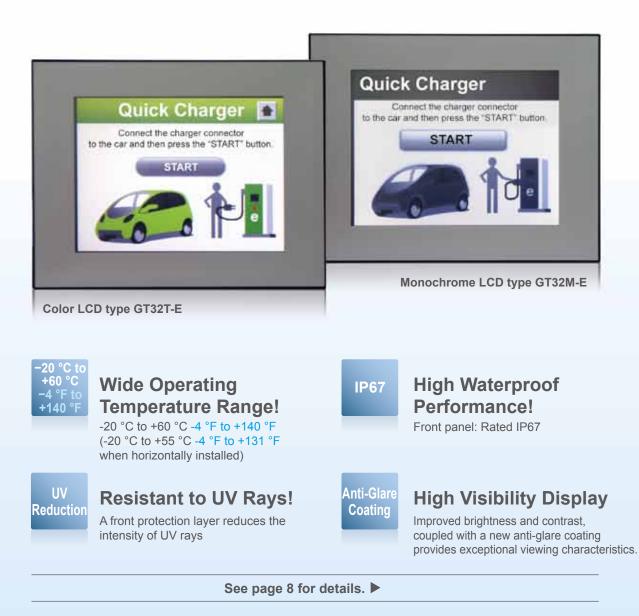
Enhanced Environmental Resistance

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



The LCD picture is simulated images.

Introducing the GT32-E Series with Excellent Environmental Resistance



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.

O: Available —: Not available

											—: N	lot available
			Rated				Display					cternal terface
	GTse	ries	voltage	Screen size	Display type	Display color	Resolution	Backlight	Displayable characters* ¹	Memory capacity (F-ROM)	USB port	SD / SDHC memory card
Environ- mentally-	GT32M-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
resistant Tough series	GT32T-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	<u>P.10</u>	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	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	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 AlG12MQ1*D and AlG12GQ1*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
	GT05S	GT05S	24 V DC	3.5 inch	STN color LCD*2	4,096 colors	GT05: 320(W) × 240(H) dots	S White LED	768 characters	12 Mbyte	0	0
	GT32M	P.14	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 GT32T0	P.15	24 V DC	5.5 inch	TFT color LCD	4,096 colors	320(W) × 240(H) dots 2011.	CFL	768 characters	12 Mbyte	O GT32T Ethem sound	

SD Solutions only Panasonic can provide

Links and expansion via SD

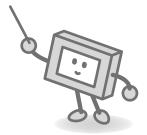
As small-size touch panels have significantly improved their image quality,

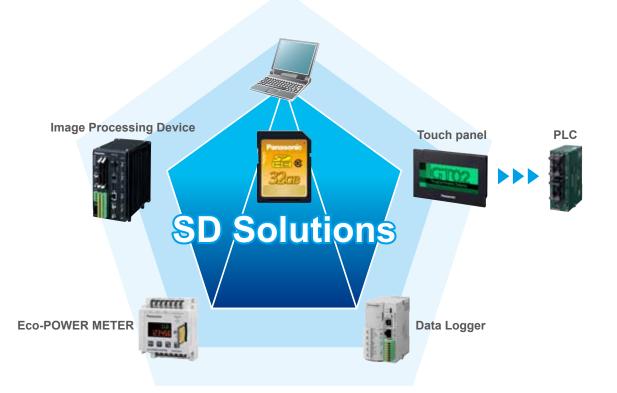
easy to read displays with sharp characters are no longer special features these days.

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

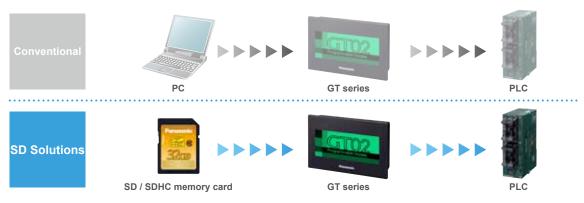
- ►► SD recipe function (Data table management)
- ▶▶ Transfer of PLC program data

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

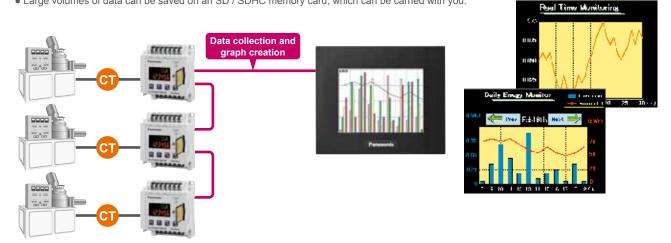
It is possible to modify PLC ladder programs as well as the GT screen programs by using an SD / SDHC memory card. SD / SDHC memory card enables everyone to easily modify programs.



SD logging function to produce data "Visualization"

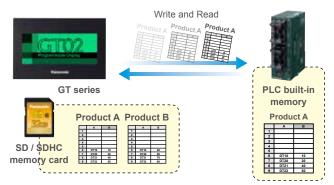
Capable of automatically collecting electrical power readings of Eco-POWER METERS and displaying them in a real time graph, allowing users to take quick actions for solutions.

- 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.



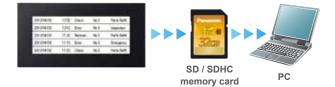
SD recipe function

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

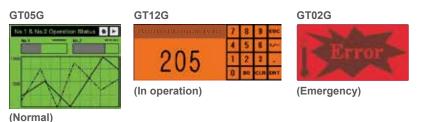


Three-color LED backlights allows for checking machine status at a glance (GT02M, GT02G, GT05M, GT05G, GT12M and GT12G)

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



Highly flexible screen design!

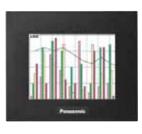
GT series displays use an analog-touch panel where locations of parts and characters can be adjusted in increments of one dot. The adoption of the Windows® font has widened the character size selection (10 to 240 dots), making the screen design more flexible. *The maximum size varies depending on the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

"Analog-touch design"



Graph function

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



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.



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.



"TrueType fonts"



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



Flow display function

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



Multi-function switches

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

4,096-color parts libraries

(GT05S, GT32T and GT32T-E)

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



• The LCD images on this page are composites.

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, FP2, 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.

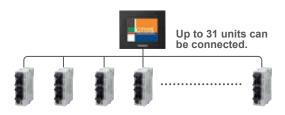
GT link function

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.

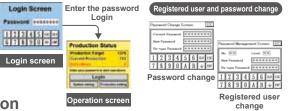
Password protection function

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.

GT32T1 supports Ethernet connection, which allows the through function to be controlled from a remote location. Power supply Rear of GT



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.

	5.3	Japanése	English	Simplified Chinese	Traditional Chinese	Koreán
000	SWO	日本語	English	而这中国历	整体中间晶	한국어
000	SW0	ありがとうこさいました	Thankyou	纳西欧迪	請多指教	안녕하네
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.

an Arthur (Sector)	
(mark)	100
COMPACT AND ADDRESS OF	
An Article and	
Particular Contraction of Contract	1
Pharbollone (Second pr. 67)	
factor i	
T Avenue (granted)	
P Second second Them	
and a second sec	
- N Real Transment	



Outdoor Use Made Possible by Significantly Improved Environmental Resistance and Visibility



GT32T-E

card

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.



1 Class 10 Compatible with a card of up to 32 GB.

39.1 mm

*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

1.5 mm *² 0.06 in 1.54 in Slot for SD memory USB port Connector for communication To PLC
To PLC PLC connection cable AIGT8162

Tough series

Superior visibility even in sunlight

Color type





New model GT32T-E

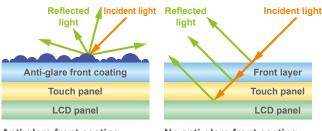
• High contrast LCD: Achieved higher contrast and visibility.

• High brightness backlight: Achieved greater brightness and visibility than the conventional model.

Conventional model GT32T

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)
 Comparison of reflection

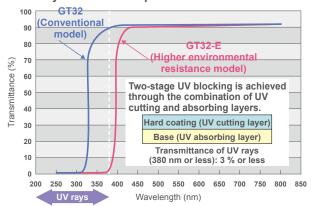


Anti-glare front coating

No anti-glare front coating

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



Monochrome type



New model GT32M-E



Conventional model GT32M





New model GT32T-E

• The LCD pictures are screen captures of actual displays.

Conventional model GT32M

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

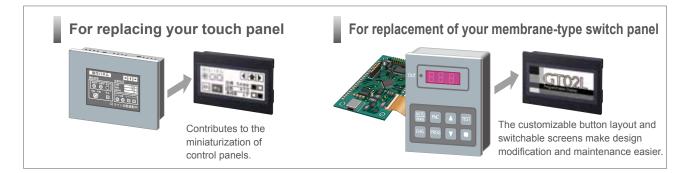


Entry-level Touch Panel

3.7 inch CE cubus



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

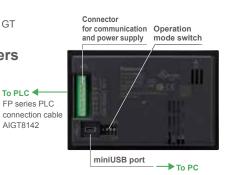
Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT

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.



3.7 inch SIN White LED 16 chars. 160 x 4 ines 64 dots USB 1965 5V DC

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

• 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 C € ₀ΨL us

GT series

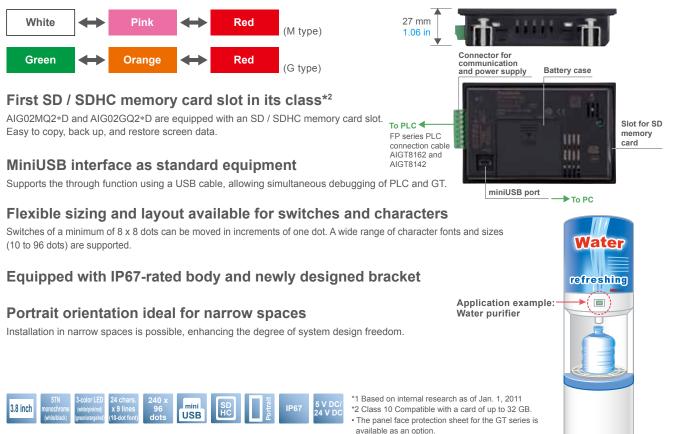


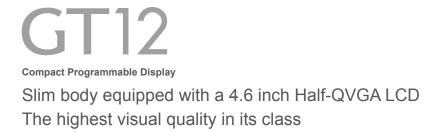
Largest 3.8 inch high-contrast monochrome LCD in its class provides top-level viewability*1.

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.





4.6 inch C € c^(U)L_{us}



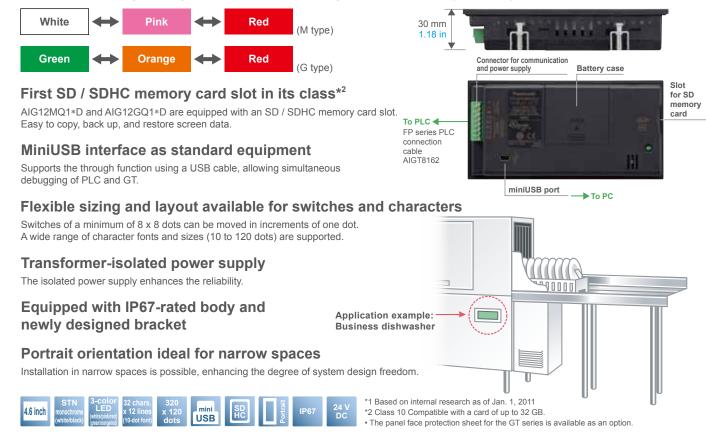
GT series

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.

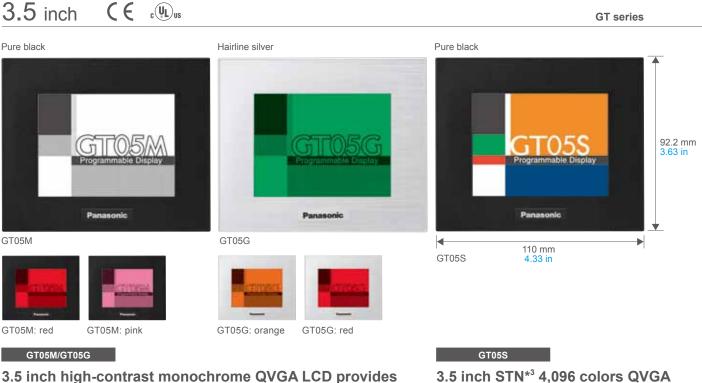
The color combination is green/orange/red or white/red/pink. The backlight ensures both operability and visibility.





Compact Programmable Display

Compact size and equipped with a QVGA LCD. Both the color and monochrome types display striking images.



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

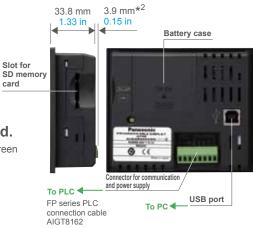
The isolated power supply enhances the reliability.



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

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.

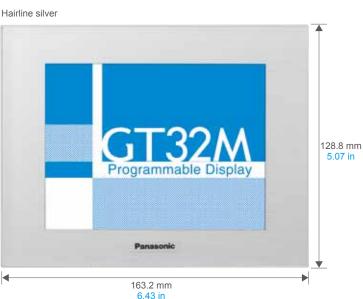


Programmable Display

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

5.7 inch $C \in C \cup U_{L}$





Slot for SD memory card

To PC USB port

To PLC

AIGT8162

GT series

39.1 mm

1.54 in

Connector for communication and power supply

FP series PLC connection cable

5.2 mm

0.21 in

4

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

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 x 5.07 x 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.

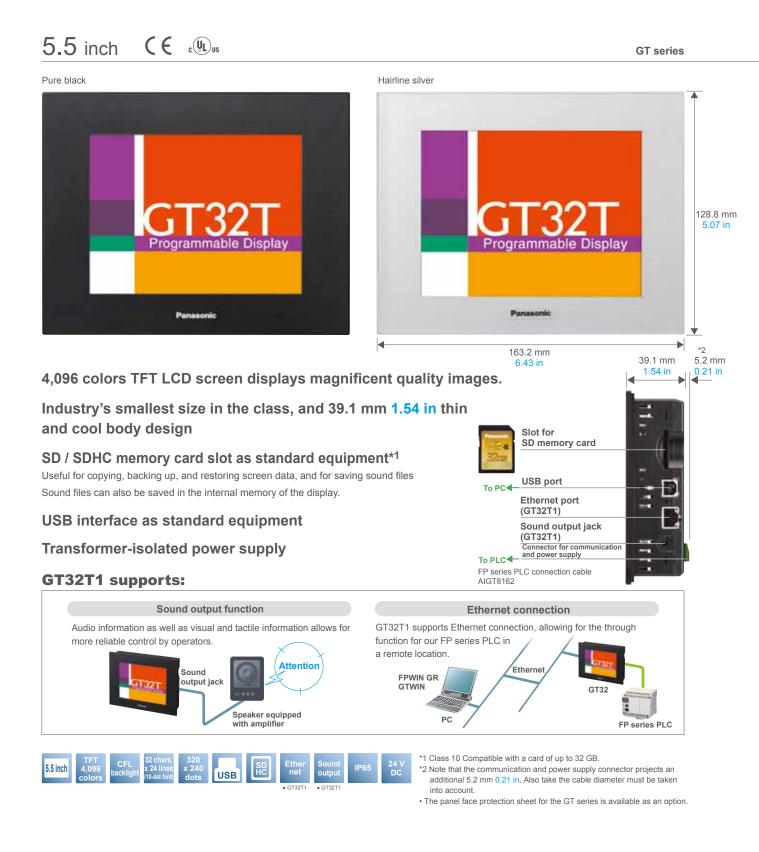
Transformer-isolated power supply

The isolated power supply enhances the reliability.



- *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.





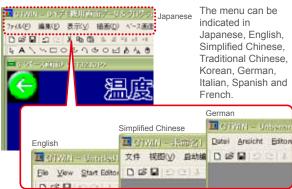
GTWIN Ver.2

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.

 \bullet GTWIN Ver. 2.8 or later is not compatible with Windows $^{\otimes}$ 95, 98, Me or NT.

GTseries | PLC Compatibility Table

			_GT02(1)_GT0	5, GT12, GT32
Company	Series	Model	RS232C	RS422/RS485
			type	type*2
		FP-X	0	0
		FPΣ FP-e	0	0
Panasonic Electric	FP series	FP-e	0	0
Works SUNX		FPOR	0	0
		FP2	0	0
		FP2SH	0	0
		FX0N	Ő	0
		FX1S	Ŏ	0
		FX1N	0	0
		FX1NC	Ö	0
	FX series	FX2N	0	0
		FX2NC	0	0
		FX3UC	0	0
		FX3U	0	0
		FX3G	0	0
		Q00CPU	0	
		Q01CPU	0	
		Q00JCPU	0	
		Q00HCPU	0	
	0	Q00UJCPU	0	
Mitsubishi Electric* ¹	Q series	Q26UDHCPU	0	0
Electric		Q25HCPU Q12HCPU	0	
		Q12HCPU Q06HCPU	0	
		Q06HCPU Q02HCPU	0	
		Q02HCPU Q02CPU	0	
		A1N	0	
		A1N A2N	0	
		A3N	0	
		A1S	0	
	A series	A1SJ	0	
		A2SH	0	
		A1SH	0	
		A2CCPU24	0	
	L series	L26CPU-BT	Ő	0
		C200H	0	
		C200HS	O	
		C500	0	
		C500F	0	
		C1000H	0	
		C2000	0	
		C2000H	0	
		C1000HF	0	
		C20H	0	
	C series	C28H	0	
		C40H C120	0	
		C120	0	
		CQM1-CPU42	0	
		SRM1-CP042	0	
		CPM2A	0	
		CPM1-20CDR-A	Ő	
		CQM1H-CPU21	0	
		CPM2C	Ő	
		CPM2B	0	
		C200HE-CPU32-Z	0	
		C200HE-CPU32	0	
Omron*1		C200HG-CPU33-Z	0	
		C200HG-CPU33	0	
		C200HG-CPU53-Z	0	
		C200HG-CPU53	0	
		C200HX-CPU34-Z	0	
		C200HX-CPU34	0	
		C200HX-CPU54-Z	0	
		C200HX-CPU54	0	
	a series	C200HE-CPU42-Z C200HE-CPU42	0	
		C200HG-CPU43-Z	0	
		C200HG-CPU43	0	
		C200HG-CPU63-Z	0	
		C200HG-CPU63	0	
		C200HX-CPU44-Z	0	
		C200HX-CPU44	0	
		C200HX-CPU64-Z	0	
		C200HX-CPU64	0	
		C200HX-CPU65-Z	0	
		C200HX-CPU85-Z	0	
		CV500	0	
	CV series	CV1000	Õ	
		CVM1	0	

			models that have been en GT02(L), GT0	5, GT12, GT32
Company	Series	Model	RS232C	RS422/RS485
			type	type*2
		CS1H-CPU67	0	
		CS1H-CPU66	0	
		CS1H-CPU65	0	
	CS1 series	CS1H-CPU64	0	
	Conselles	CS1H-CPU63	0	
		CS1G-CPU45	0	
		CS1G-CPU44	0	
Omron*1		CS1G-CPU43	0	
		CS1G-CPU42	0	
		CJ1H	0	
		CJ1M	0	
	CJ series	CJ1G	0	
		CJ2H	0	
		CP1H	0	
	CP1 series	CP1L	0	
	GI I Selles		0*4	0
		CP1E		0
oshiba Machine*1	TC mini series		0	0
			Models with RS232 port	Models with RS485
		F3SP59-7S	0	
		F3SP58-6S	0	
		F3SP58-6H	0	
		F3SP53-4S	0	
		F3SP53-4H	0	
okonowo Electri - +1	FA-M3 series	F3SP38-6S	0	
okogawa Electric*1	FA-IVIS 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	
				0
KEYENCE*1	10/	KV700	0	~
KETENCE"	KV series	KV1000	0	0
		KV3000	0	0
		KV5000	0	0
		EHV-CPU128	0	0
	EH-150 EHV series	EHV-CPU64	0	0
		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		10-point		~
Systems*1		14-point	0	
		20-point	0	
	MICRO-EH series	23-point	0	0
	Silon O-Lin Selles			0
		28-point	0	<u> </u>
		40-point	0	
		64-point	0	
	Web controller	10-point	0	~
		23-point	0	0
		MicroLogix500	0	
Rockwell Automation* ¹	MicroLogix series	MicroLogix1000	0	
(Allen-Bradley)		MicroLogix1100	0	
Models that support protocol	SI O 500	SLC-5/03	0	
	SLC-500 series	SLC-5/04	0	
		CPU222	0	0
		CPU216	Ŏ	0
Siemens*1	S7-200 series	CPU215	0	0
	2. 222 00100	CPU213	0	0
		CPU214 CPU212	0	0
				U U
		80S	0	
LS Industrial	MASTER-K series	200S	0	
Systems*1		300S	0	
		1000S	0	
			0	0
Modbus*1	Models that support RTU protocol	*3		

*1 PLCs other than Panasonic Electric Works SUNX FP series may be limited in the type of device that can be used and addresses. Please see manual for details.
*2 Communication may not be possible when using RS485 depending on the sending and receiving timing with the other device.
*3 We cannot specify what other device you should use; therefore, please test it using the actual equipment before using.
*4 Available for models equipped with on RS232C port.
© Direct connection is possible to the CPU unit of the PLC.
Connection is possible using the communications unit or a signal conversion cable, etc. (Example: The QJ71C24N or QJ71C24N-R2 calculator link unit is required when using the Mitsubishi Q Series.)
* Connection is possible

 \times : Connection is not possible Blank: Not evaluated.

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.

GTseries | Part Number List

Main Unit and Tool Software

			Description			Part numbe
	LCD	Power supply	Communication port	Color of front panel	SD memory card slot	
GT32M-E (Tough Series)	TFT monochrome LCD	24 V DC	RS232C	Silver	Available	AIG32MQ03I
,			RS422 / RS485			AIG32MQ05E
GT32T-E (Tough Series)	TFT color LCD	24 V DC	RS232C	Silver	Available	AIG32TQ03E
		21120	RS422 / RS485			AIG32TQ05E
GT02L	STN monochrome LCD	5 V DC	RS232C	Black	Not available	AIG02LQ02I
GTUZE	(white backlight)	3 4 6 6	RS422 / RS485	Diack	Not available	AIG02LQ04
			RS232C	Pure black		AIG02MQ02
		51/00	R32320	Hairline silver		AIG02MQ03
		5 V DC	DC 400 / DC 405	Pure black		AIG02MQ04
			RS422 / RS485	Hairline silver		AIG02MQ05
				Pure black	Not available	AIG02MQ12
	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 Pure black		AIG02MQ25 AIG02GQ02
			RS232C			
		5 V DC		Hairline silver		AIG02GQ03
GT02G	STN monochrome LCD (green/orange/red backlight)	24 V DC	RS422 / RS485	Pure black	Not available	AIG02GQ04
				Hairline silver		AIG02GQ05
			RS232C	Pure black		AIG02GQ12
				Hairline silver		AIG02GQ13
				Pure black		AIG02GQ14
				Hairline silver		AIG02GQ15
			RS232C RS422 / RS485	Pure black		AIG02GQ22
				Hairline silver	Available	AIG02GQ23
				Pure black	, wallable	AIG02GQ24
				Hairline silver		AIG02GQ25
		24 V DC	R\$232C	Pure black		AIG05MQ02
	STN monochrome LCD		RS232C	Hairline silver	Available	AIG05MQ03
GT05M	(white/pink/red backlight)			Pure black		AIG05MQ04
			RS422 / RS485	Hairline silver	Available	AIG05MQ05
				Pure black		AIG05GQ02
	STN monochrome LCD		RS232C		Available	
				Hairline silver		AIG05GQ03
GT05G	(green/orange/red backlight)	24 V DC		Hairline silver		
GT05G		24 V DC	RS422 / RS485	Pure black	Available	AIG05GQ04
GT05G		24 V DC	RS422 / RS485	Pure black Hairline silver	Available	AIG05GQ04 AIG05GQ05
GT05G		24 V DC	RS422 / RS485 RS232C	Pure black Hairline silver Pure black	Available	AIG05GQ04 AIG05GQ05 AIG05SQ02
GT05G GT05S		24 V DC 24 V DC		Pure black Hairline silver Pure black Hairline silver		AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03
	(green/orange/red backlight)			Pure black Hairline silver Pure black Hairline silver Pure black		AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04
	(green/orange/red backlight)		RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05
	(green/orange/red backlight)		RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Pure black	Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05
	(green/orange/red backlight)		RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ02
	(green/orange/red backlight)		RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04
	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD		RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04
GT05S	(green/orange/red backlight) STN color LCD *1	24 V DC	RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG05SQ06 AIG05SQ06 AIG05SQ06 AIG05SQ06 AIG12MQ02 AIG12MQ04 AIG12MQ05
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ04 AIG12MQ04 AIG12MQ05 AIG12MQ05
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black	Available Available Not available Not available Available	AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ051 AIG12MQ12 AIG12MQ13
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ14
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black	Available Available Not available Not available Available Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG05SQ06 AIG05SQ06 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ04 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12MQ15
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available Not available Available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ05 AIG12MQ07 AIG12MQ13 AIG12MQ14 AIG12MQ15 AIG12QQ2
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black	Available Available Not available Not available Available Available Available Available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ14 AIG12MQ15 AIG12QQ02 AIG12QQ02 AIG12QQ03
GT05S GT12M	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight)	24 V DC 24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver	Available Available Not available Not available Available Available	AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ05 AIG12MQ05 AIG12MQ12 AIG12MQ15 AIG12MQ15 AIG12G002 AIG12G003 AIG12GQ04
GT05S	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD	24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black	Available Available Not available Not available Available Available Available Not available	AIG05GQ03 AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12GQ02 AIG12GQ03 AIG12GQ04 AIG12QQ05 AIG12GQ05
GT05S GT12M	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight) STN monochrome LCD	24 V DC 24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C	Pure black Hairline silver Pure black	Available Available Not available Not available Available Available Available Not available	AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12QQ2 AIG12QQ2 AIG12GQ03 AIG12GQ04 AIG12GQ05 AIG12GQ12
GT05S GT12M	(green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight) STN monochrome LCD	24 V DC 24 V DC	RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485	Pure black Hairline silver Pure black Hairline silver	Available Available Not available Not available Available Available Available Not available Not available Not available	AIG05GQ04 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12MQ15 AIG12QQ2 AIG12GQ03 AIG12GQ04 AIG12GQ05

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

Main Unit and Tool Software

Product name	Description						
Product name	LCD	Power supply	Communication port	Color of front panel	SD memory card slot	Part number	
			RS232C	Pure black	Available	AIG32MQ02D	
GT32M		24 V DC	R52320	Hairline silver	Available	AIG32MQ03D	
GT 52IW	STN monochrome LCD	24 V DC	RS422 / RS485	Pure black	Available	AIG32MQ04D	
			K3422 / K3403	Hairline silver	Available	AIG32MQ05D	
	TFT color LCD 24 V DC		RS232C	Pure black	Available	AIG32TQ02D	
GT32T0		24 V DC	R52320	Hairline silver	Available	AIG32TQ03D	
613210			RS422 / RS485	Pure black	Available	AIG32TQ04D	
				Hairline silver	Available	AIG32TQ05D	
	TET color I CD	24 V DC	RS232C	Pure black	Available	AIG32TQ12D	
GT32T1				Hairline silver	Available	AIG32TQ13D	
613211	TFT COIOLECD		RS422 / RS485	Pure black	Available	AIG32TQ14D	
			K3422 / K3403	Hairline silver	Available	AIG32TQ15D	
Terminal GTWIN Ver.2	Japanese version		Terminal GTWIN	CD-ROM		AIGT8000V2	
	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)	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)

GT02L / GT02	Part No.: AIG02800
GT05	Part No.: AIG05800
GT12	Part No.: AIG12800
GT32	Part No.: AIG32800



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

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

10E * The waterproof packing for GT02(L) is different from the GT02L main unit accessory.



GT02 / GT02L / GT12 mounting parts 5 sets of mounting parts (4 parts / set) Package includes one set.

Part No.: AIG12830 For GT02 / GT02L / GT12



GT05 / GT32 / GT32-E

mounting parts 5 sets of mounting parts

(2 parts / set) Package includes one set.

Part No.: AIGT28321 For GT05

Part No.: AIG32830 For GT32 / GT32-E



Spare connector

Part No.: AIGT084

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

Part No.: AFPX-BATT

GT32 /GT32-E backup battery



GT02 / GT05 / GT12 /

GTseries | specifications

		GT32M-E		61	Г32Т-Е					
	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 \	V or less					
Power supply	unit isolation method	Tra	sformer isolation							
Ambient te	mperature	-20 to +	0 °C −4 to +140 °F *5							
Ambient humidity 10 to 90 %RH (at 25 °C 77 °F), No condensation										
Storage temperature -20 to +60 °C -4 to +140 °F										
Storage humidity 10 to 90 %RH (at 25 °C 77 °F), No condensation										
Vibration r	esistance	5 to 8.4 Hz, amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz, accel	ration 9.8 m/s ² , 10 swee	ps each in X, Y and Z directions (1 octave / mir	ı.)				
Shock resi	stance	147 m/s ² , 3 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 su	oply terminals (by a noise simula	ator)					
Environme	ntal resistance	IP67 (in the initial stages), Dust-proof and drip-proof from the fron	of the panel only (Rub	ber packing is attached to the p	anel contact	surface.) *1				
Mass			70 g approx.							
	Display device	TFT monochrome LCD		TFT c	olor LCD					
	Resolution	320	N) x 240 (H) dots							
Display	Display color	2 colors (black/white, 16-gray scale)		409	6 colors					
	Displayable area	115.2 (W) × 86.4	H) mm 4.54 (W) × 3.4	0 (H) in						
	Backlight		White LED							
	Font types	Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, Ch True Type (GTWIN): 10			n or height,					
	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	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)								
unctions	Other functions	Recipe, Flow display, Write device, Multiple PLC connection, FP monitor, Language switching, GT link, Operation security, Data logging, and SD recipe *3								
	Clock function	Provided with a built-in clock. (Can also refer to and display a PLC clock.) * Buy a commercially available battery.								
	Backlight brightness adjustment	Can be set on the menu screen, via the GT configuration screen of GTWIN, or via PLC.								
	Contrast adjustment	Contrast can be ad	usted by using the tou	ch panel.						
	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 PC and PLC allows	PLC to be debugged w	ithout a direct connection to a P	°C.					
	Screen creation	Dedicated software should be use	. Applicable OS: Wind	ows® 2000/XP/Vista/7 *6						
Fouch key	resolution	Free	iyout (8 dots min.)							
Fouch key	operation force		0.8 N or less							
Fouch key		1 million operat	ons or more (at 25 °C	77 °F)						
	Communication standard	Conforms to RS232C Conforms to RS422 / RS485	C	onforms to RS232C		Conforms to RS422 / RS485				
COM.	External communication conditions	Baud rate: 9,600 bps, 19,200 b Data bits: 7 or 8 bits, Pa								
	Protocol	Our FP series supported, General-purpose serial interface supported, and Other comp	anies' PLC supported	(Refer to the "PLC COMPATIBIL	ITY TABLE	for manufacturers and models.)				
	Connector	Connecto	terminal block (8 pins							
	Communication standard		USB1.1							
Screen lata	Communication conditions with PC		-							
ransfer nterface	Protocol	Our	edicated protocol							
	Connector		ISB TYPE-B							
	Ethernet port *4		-							
Jser's	Memory		F-ROM							
memory	Capacity		12 Mbyte							
Memory	Memory		SRAM							
backup	Backup battery	Lithium battery (replaceable)	FPX-BATT *Does not	come with product.						

Conformance to the UL / cUL standards

*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.

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

- *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

Item		GT02L	GT02		GT05M / GT05G		GT05S				
		5 V / RS232C 5 V / RS422 / RS485	5 V / RS232C 5 V / RS422 / RS485	24 V / RS232C 24 V / RS422 / RS485	RS232C	RS422 / RS485	RS232C	RS422 / RS485			
Rated voltage		5 V DC	10400			24 V DC					
Operating	voltage range	4.5 to 5.5 V DC			21.6 to 26.4 V DC						
Power con	sumption	1 W or less		1.9 W or less	2.4 W c	r less	3.6 W or	less			
Power supply	unit isolation method	-	_			Transforme	er isolation				
Ambient te	emperature			0 to 50 °C 3	2 to 122 °F						
Ambient h	umidity		1	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 r		5 to 8.4 Hz amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz acceleration				Double amplitude: 0.75 mm	0.03 in. 10 minutes in each of	the X. Y. and Z direction			
Shock resi		5 to 8.4 Hz amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz acceleration 9.8 m/s ² , 10 sweeps each in X, Y and Z directions (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/min.) 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 (1 octave/minutes (1 octave/minute									
	noise suppression		,000 V [P-P] or more, pulse					0110			
		IP65 (in the initial stages) *1	IP67 (in the ini		ween power suppry termin						
Environmental resistance Mass			-		IP65 (in the initial stages) *1 230g approx.						
IVI855	Disalau davias	150g approx.	170g ap	-		230g a		L CD *2			
	Display device		STN monoch				STN color				
	Resolution	160 (W) × 64 (H) dots	240 (W) × 9		320 (W) × 24			1			
Display	Display color		2 colors (bla	·			4,096 co	DIOFS			
	Displayable area	88.0 (W) × 35.2 (H) mm 3.46 (W) × 1.39 (H) in	88.5 (W) × 35.4 (H) mm	3.48 (W) × 1.39 (H) in		71.0 (W) × 53.3 (H) mn	n 2.80 (W) × 2.10 (H) in				
	Backlight	White LED	GT02M: 3-color LED GT02G: 3-color LED		GT05M: 3-color LED GT05G: 3-color LED		White L	ED			
	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, TrueType (GTWIN): 10 to 64 dots Windows [®] : 10 to 64 dots	Fixed (GTWIN) : 8 x 8, 1 Characters can be disp 8 times width TrueType (GTWIN	layed in the 1, 2, 4, or hor height.	Characters	Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, can be displayed in the 1, 2, 4, or 8 times width or height. te (GTWIN): 10 to 240 dots, Windows [®] : 10 to 240 dots					
	Languages	Japane	se, English, Simplified Chi	inese, Traditional Chines	e, Korean, German, Italia	n, Spanish, French, and	Turkish				
	Graphics	Straight lines, Continuo	ous straight lines, Squares	, Circles, Ovals, Arcs, Ell	iptic arcs, Fan shapes, El	iptic fan shapes, Bevele	d squares and Bitmaps				
	Number of screens *3	80 screens approx.	250 screen		240 screen		180 screens	approx.			
	Screen setting No.			No. 0 t	o 3FF						
Functions	Part functions	-									
	Other functions										
	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.									
	oonaast aajastinent			Contrast can be adjusted	by using the touch panel.						
	Buzzer	-		contrast can be adjusted	by using the touch panel. Insta	led					
	· · ·	— The co	pmmunication speed (bauc		Insta		pment.				
	Buzzer			I rate) is automatically ch	Insta anged if there is no respo	nse from the target equi					
	Buzzer Automatic communication settings		ommunication speed (bauc GT connected between PC	I rate) is automatically ch C and PLC allows PLC to	Insta anged if there is no respo	nse from the target equi irect connection to a PC					
Fouch key	Buzzer Automatic communication settings Through function		ommunication speed (bauc GT connected between PC	I rate) is automatically ch C and PLC allows PLC to	Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200	nse from the target equi irect connection to a PC					
	Buzzer Automatic communication settings Through function Screen creation		ommunication speed (bauc GT connected between PC	d rate) is automatically ch C and PLC allows PLC to are should be used. App	Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.)	nse from the target equi irect connection to a PC					
Touch key	Buzzer Automatic communication settings Through function Screen creation resolution operation force		ommunication speed (bauc GT connected between PC	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c	Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.) or less	nse from the target equi irect connection to a PC					
Fouch key	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication	Conforma to B52220 Conforms to	GT connected between PC Dedicated softw	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to	Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.) or less	nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to		Conforms to			
Touch key Touch key COM.	Buzzer Automatic communication settings Through function Screen creation resolution operation force life	- Outrant	Conforms Conforms to to RS232C RS422 / RS425 / RS423 / RS425 / RS423 / RS485 Baud rate: 9,6	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 500 bps, 19,200 bps, 38,4	Insta anged if there is no respo be debugged without a d licable OS: Windows® 20(8 dots min.) rr less more (at 25 °C 77 °F)	nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps		Conforms to RS422 / RS485			
Fouch key Fouch key COM.	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication	Conforma to B52220 Conforms to	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 its: 7 or 8 bits, Parity: No	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and me, Odd, Even, Stop bits:	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM.	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External conditions Protocol	Conforms to RS232C Conforms to RS422 / RS485	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS45] 500 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM.	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 its: 7 or 8 bits, Parity: No	Insta anged if there is no response be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: C supported (Refer to the hal block (8 pins)	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM. Sort	Buzzer Automatic communication settings Through function Screen creation operation force life Communication standard External communication conditions Protocol Connector Communication	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C RS422 (RS45) 600 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin	Insta anged if there is no response be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: C supported (Refer to the hal block (8 pins)	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM. Soort	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions Protocol Connector Communication Communication Communication	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C RS422 (RS45) 600 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM. Soort	Buzzer Automatic communication settings Through function Screen creation operation force life Communication standard External communication conditions Protocol Connector Communication standard Communication conditions with PC	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C [RS42] / RS485] 000 bps, 19,200 bps, 38,4 iits: 7 or 8 bits, Parity: NG ted, Other companies' PL Connector termir USE	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1	Conforms to RS422 / RS485 115,200 bps 1 bit	Conforms to RS232C	RS422 / RS485			
Fouch key Fouch key COM. Soort	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External conditions Protocol Connector Communication standard Communication standard Communication standard Communication standard Communication conditions with PC	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C [RS42] / RS485] 000 bps, 19,200 bps, 38,4 iits: 7 or 8 bits, Parity: NG ted, Other companies' PL Connector termir USE	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1	nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY	Conforms to RS232C	RS422 / RS485			
Touch key Touch key COM. port Screen data transfer interface	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 itts: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 400 bps, 57,600 bps, and nne, Odd, Even, Stop bits: C supported (Refer to the nal block (8 pins) 11.1	nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY	Conforms to RS232C	RS422 / RS485			
Touch key Touch key COM. port Screen data transfer interface User's	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory	Conforms to RS232C Conforms to RS232C RS422 / RS485 Our FP series supported, General-purpor	Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C (RS422 / RS485 300 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE Our dedicat	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the al block (8 pins) 11.1 - - - - - - -	nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY	Conforms to RS232C	RS422 / RS485			
Touch key Touch key COM. port Screen data transfer interface User's	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory Capacity	Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo	Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 itts: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the al block (8 pins) 11.1 - - - - - - -	Inse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY USB T	Conforms to RS232C	RS422 / RS485			
	Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory	Conforms to RS232C Conforms to RS232C RS422 / RS485 Our FP series supported, General-purpor	Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support	d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C (RS422 / RS485 300 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE Our dedicat	Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: CC supported (Refer to the lal block (8 pins) 11.1 - - - - - - - - - - - - - - -	Inse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY USB T USB T	Conforms to RS232C	RS422 / RS485			

Conformance to the UL / cUL standards

*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.

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

*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®.

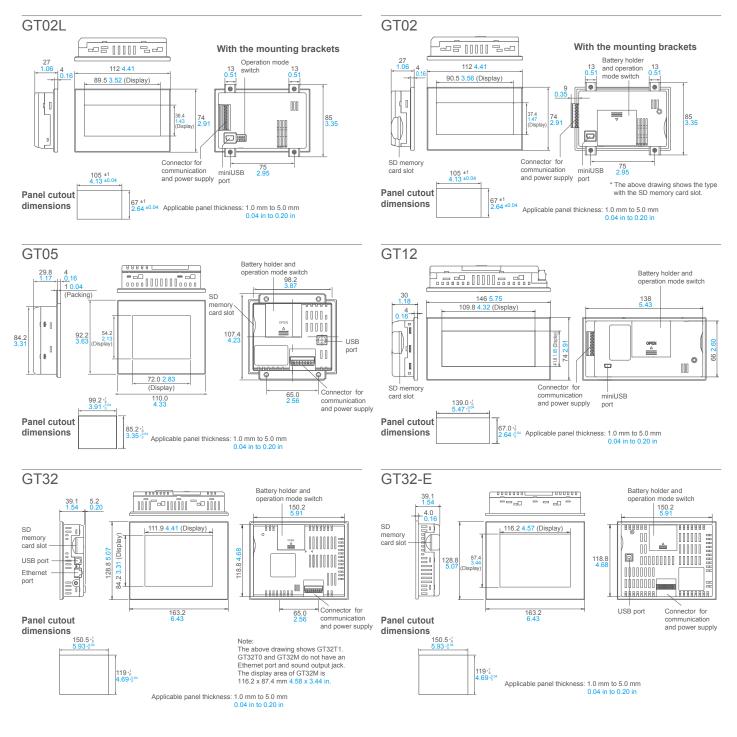
Item		GT12	GT32M	GT3	2T0	GT32	T1			
	item	RS232C RS422 / RS485	RS232C RS422 / RS485	RS232C	RS422 / RS485	RS232C	RS422 / RS485			
Rated volt	age		24 \	DC						
Operating	voltage range		21.6 to 2	6.4 V DC						
Power consumption		1.7 W or less	10 W 0	12 W or	less					
Power supply unit isolation method			Transformer isolation							
Ambient te	emperature	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 r	-	5 to 9 Hz amplitude: 3.5 mm 0.14 in, 9 to 150 Hz acceleration 9.8 m/s ² ,			0.03 in 10 minutes in e	ach of the X-X- and Z direc	tions			
Shock resi		10 sweeps each in X, Y and Z directions (1 octave/min.) 147 m/s ² , 3 times in each of the X, Y and Z directions		s ² or more, 4 times in eac						
	noise suppression									
		IDOT (In the Initial strength	1,000 V [P-P] of more, puis			ninals (by a noise simulator	1			
Environmental resistance		IP67 (in the initial stages)*1		IP65 (in the ini						
Mass		240 g approx.	500 g approx.	470	-	480 g ap	prox.			
	Display device	STN monoo	chrome LCD			olor LCD				
	Resolution	320 (W) × 120 (H) dots		320 (W) × 24						
Display	Display color	2 colors (black/white, 8-gray scale)	2 colors (blue/white)			6 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			1m 4.36 (W) × 3.29 (H) in				
	Backlight	GT12M: 3-color LED (white, pink, red) GT12G: 3-color LED (green, orange, red)	Averag	CFL *Not re e life for backlight; GT32M GT32T: 50,000 hou	: 75,000 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, rs can be displayed in the 1, 2, 4, or 8 times width or height. Fype (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	2-gray scale: 250 screens approx.,	240 screens approx.			ens approx.				
	Screen setting No.	8-gray scale: 200 screens approx.	No. 0	to 3FF						
	Part functions									
Functions	Other functions	Recipe. Flow display. Write device. Multiple PLC connection. FP monitor. Language switching.								
	Clock function	Provided with a built-in clock. (Can also refer to and display a PLC clock.) *Buy a commercially available battery.								
	Contrast adjustment	nt Contrast can be adjusted by using the touch panel. Not adjustable								
	Buzzer		Insta	alled						
	Automatic communication settings	The co	ommunication speed (baud rate) is automatically ch	anged if there is no respo	nse from the target equ	uipment.				
	Through function	GT o	onnected between a PC and PLC allows the PLC t	o be debugged without a	direct connection with th	he PC.				
	Screen creation									
Touch key resolution			Free layout							
	operation force		0.8 N							
Touch key			1 million operations or							
.ouon key	Communication	Conforms to RS232C Conforms to	Conforma to RS333C Conforms to	Conforms to RS232C	Conforms to	Conforms to RS232C	Conforms to			
COM.	standard External communication conditions	RS422 / RS485	Baud rate: 9,600 bps, 19,200 bps, 38, Data bits: 7 or 8 bits, Parity: No	400 bps, 57,600 bps and		Contonnis to NS2320	RS422 / RS485			
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 terminal block (8 pins)								
	Connector									
	Communication			31.1						
				-						
data transfer	Communication standard Communication conditions with PC		USF -	-						
data transfer	Communication standard Communication conditions with PC Protocol	LICP Mini P		- ted protocol	/PE_R					
data transfer	Communication standard Communication conditions with PC Protocol Connector	USB Mini B	USF -	-	′PE-B					
data transfer	Communication standard Communication conditions with PC Protocol Connector Ethernet port *4	USB Mini B	USI - Our dedica -	- ted protocol USB Th	′ΡΕ-Β	Yes (100BASE-TX,	10BASE-T) *7. *8			
transfer interface User's	Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 Memory		USE 	- ted protocol USB Th			10BASE-T) *7, *8			
data transfer interface	Communication standard Communication conditions with PC Protocol Connector Ethernet port *4	USB Mini B 2 Mbyte	USE 	- Led protocol USB TY		Yes (100BASE-TX, er.1.10 or later)	10BASE-T) *7. *8			
data transfer interface User's	Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 Memory		USE 	- Led protocol USB TY			10BASE-T) *7. *8			

Conformance to the UL / cUL standards

- *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.
- *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®.

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

GTseries DIMENSIONS Unit: mm in



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 panasonic-electric-works.net/sunx

Panasonic

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