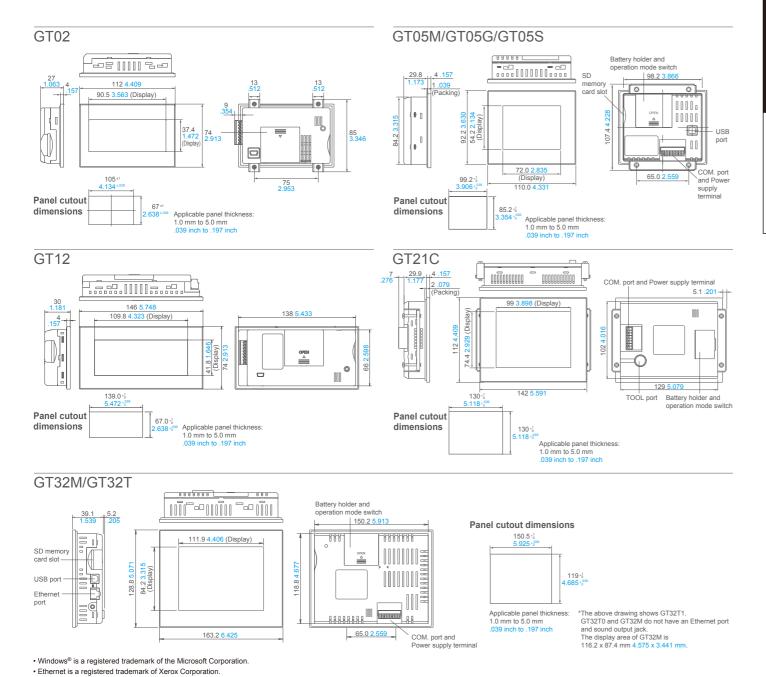
GTseries Dimensions Unit: mm inch



Panasonic ideas for life

GTserie

ARCT1B305E-3



Panasonic Electric Works Co., Ltd.

Automation Controls Business Unit

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ARCT1B305E-3 201008-4.5YT

Specifications are subject to change without notice.

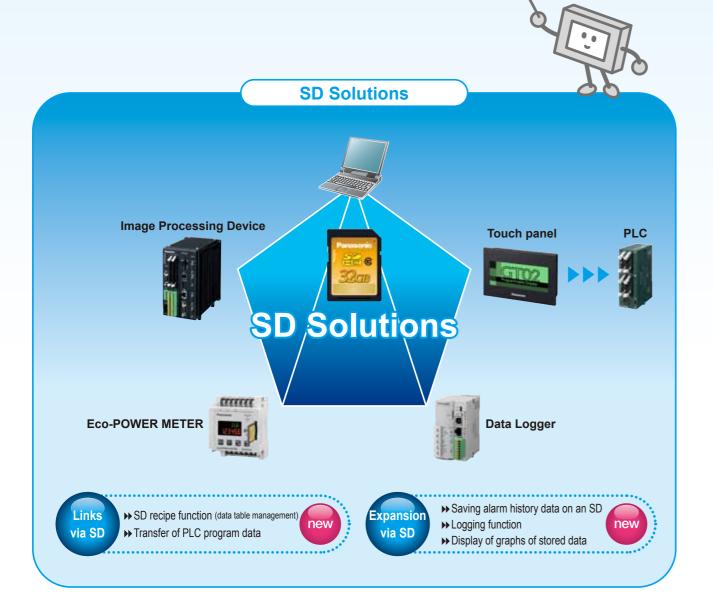


Panasonic Electric Works

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, Panasonic touch panels exchange and store data using SD memory card, data for many applications.



PLC program transfer without the use of a PC

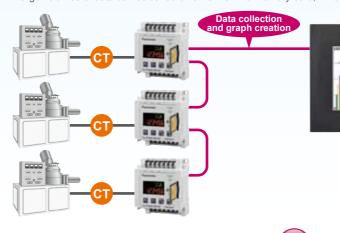
It is possible to modify PLC ladder programs as well as the GT screen programs by using an SD/SDHC memory card. SD/SDHC memory card enables everyone to easily modify programs.



SD logging function to produce data "Visualization"

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

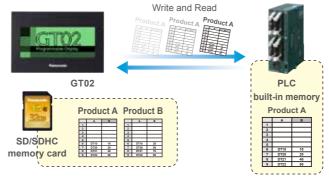
- •The GT unit can collect data, such as electrical power on an SD/SDHC memory card, and display the log data in a real time graph. You can make data "Visualization" without using a PC as a display or Datalogger for collecting data.
- •One bar graph has a maximum of eight bars and can be combined with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



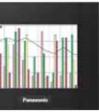
SD recipe function

new

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.









new Saving alarm history data on an SD card

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



High Visibility and Excellent Operability



Three-color LED backlights allows for checking machine status at a glance (G type)

The monochrome display (except GT32M) has a three-color LED backlight. It allows operators to check the equipment status at a glance by changing the background color. Example: green under normal conditions, orange during operation, and red in emergency situations.



Highly flexible screen design

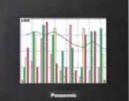
GT series displays use an analog-touch panel where locations of parts and characters can be adjusted in increments of one dot. The adoption of the Windows font has widened the character size selection (10 to 240 dots), making the screen design more flexible. *The maximum size varies depending on the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

without Department Mar Statistical es New Homan 16P Bald Undertines Asi fore 1917 California Sheelow

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)



max New Roman 20P Shadow

the Type Fort 367 Contined

mes New Roman 32P I

P Bold Underlin

Multi-function switches (GT05/GT12/GT32)

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

4096-color parts libraries (for GT05S/GT21C/GT32T)

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



Advanced Functions to Enhance Work Efficiency

Multiple GT displays can be connected to our FP series PLC. (GT02/GT05/GT12/GT32)

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.



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

Enhanced security with password protection (GT02/GT05/GT12/GT32)

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.



High-efficiency operation with USB/"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



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

	2.5	Japanése	English	Simplified Chinese	Traditional Chinese	Koreán
			English	間(3中国)通 執門(改迎	繁健中國語	한국어
	SW1	初かたうこさいました	1	1	請多指款 1	안녕하/
000	SW1	2	2	2	2	2





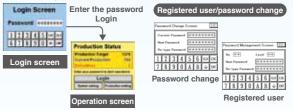
Connectivity with multiple PLCs

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.



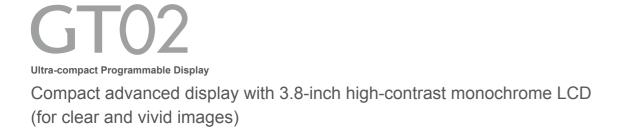
Operation security function

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 panel.



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

(the local literation of the	-
forder 1 These Spectral	 1
Passance mounty Three	



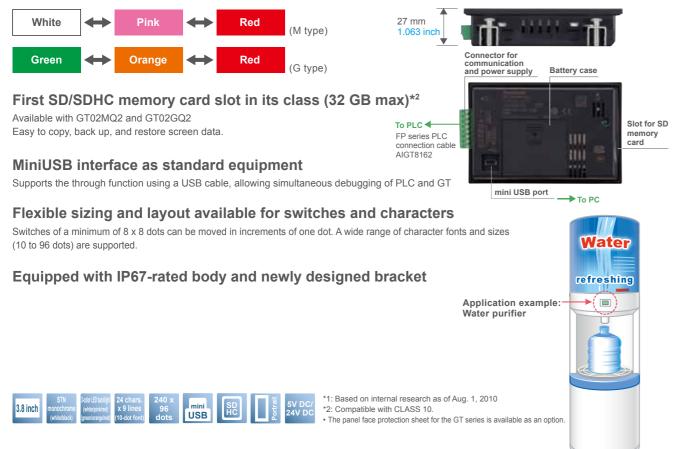
3.8 inch $C \in$



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.



GT12M/GT12G

Compact Programmable Display

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

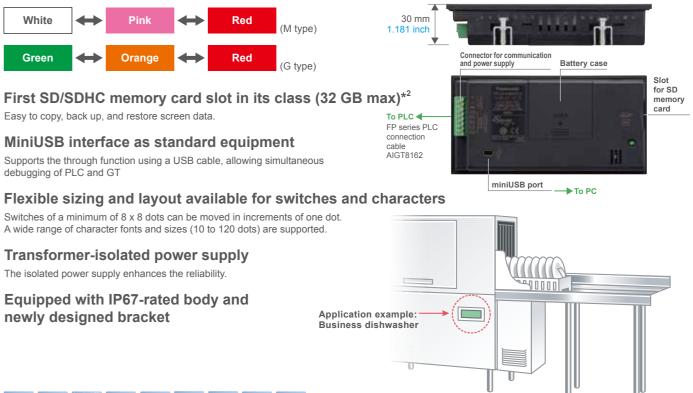
4.6 inch $C \in$



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.





74 mm 2.913inch Programmable Display Panasonio 146 mm 5.748 inch

1: Based on internal research as of Aug. 1, 2010 *2: Compliant with CLASS 10.

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

GTseries | PLC Compatibility Table



User-friendly interface makes screen creation easier.



Compatible with Windows®7 Compatible with the nine languages for



Simply drag-and-drop parts.



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

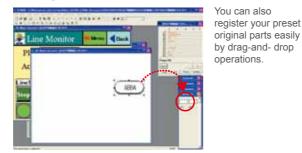
More user-friendly parts libraries

				1	e Le
•	۲	۲	۲	۲	۲
	۲	۲	۲	۲	
	۲	۲	۲	0	0
		9	1	9	9

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.



4096-color 3D buttons (for GT05S/GT21C/GT32T)



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/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. Please use Ver. 2.71.

The difference file can be downloaded from our website: http://panasonic-electric-works.net/ac/e

			GT02/GT05/G1	[12/GT21/GT32
Company	Series	Model	RS232C	RS422 (RS485)
			type	type*2
		FP-X	0	0
		FP	0	0
Panasonic	FP series	FP-e FP0	0	0
Electric Works		FP0R	0	0
		FP2	0	ŏ
		FP2SH	0	ŏ
		FX0N		0
		FX1S	0	0
		FX1N	0	0
		FX1NC	0	0
	FX series	FX2N	0	0
		FX2NC	0	0
		FX3UC	0	0
		FX3U	0	0
		FX3G	0	0
		Q00CPU	0	
		Q01CPU	0	
		Q00JCPU Q00HCPU	0	
Mitauhiahi	Q series	Q25HCPU	0	
Mitsubishi Electric*1	Q SCHOS	Q12HCPU	0	
		Q06HCPU	0	
		Q02HCPU	0	
		Q02CPU	0	
		A1N	0	
		A2N	0	
		A3N	0	
	A series	A1S	0	
	A series	A1SJ	0	
		A2SH	0	
		A1SH	0	
		A2CCPU24	0	
	L series	L26CPU-BT	0	0
		C200H	0	
		C200HS	0	
		C500 C500F	0	
		C1000H	0	
		C2000	0	
		C2000H	0	
		C1000HF	ŏ	
		C20H	Õ	
		C28H	0	
	C series	C40H	0	
		C120	0	
		C120F	0	
		CQM1-CPU42	0	
		SRM1-C02	0	
		CPM2A	0	
		CPM1-20CDR-A	0	
		CQM1H-CPU21	0	
		CPM2C	0	
		CPM2B C200HE-CPU32-Z	0	
		C200HE-CPU32-Z	0	
Omron*1		C200HG-CPU33-Z	0	
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	
	α series	C200HE-CPU42-Z	0	
		C200HE-CPU42	0	
		C200HG-CPU43-Z	0	
		C200HG-CPU43	0	
		C200HG-CPU63-Z C200HG-CPU63	0	
		C200HG-CPU63 C200HX-CPU44-Z	0	
		C200HX-CPU44-Z	0	
		C200HX-CPU64-Z	0	
		C200HX-CPU64	0	
		C200HX-CPU65-Z	0	
		C200HX-CPU85-Z	Õ	
		CV500	0	
	CV series	CV1000	O	
		CVM1	0	

	Models	listed are the models	that have been evaluated	d as of September, 2009.
			GT02/GT05/G1	12/GT21/GT32
Company	Series	Model	RS232C	RS422 (RS485)
			type	type*2
		CS1H-CPU67	0	1900
			~	
		CS1H-CPU66	0	
		CS1H-CPU65	0	
		CS1H-CPU64	0	
	CS1 series	CS1H-CPU63	0	
			-	
		CS1G-CPU45	0	
		CS1G-CPU44	0	
Omron*1		CS1G-CPU43	0	
		CS1G-CPU42	0	
		CJ1H	Ő	
	0.14			
	CJ1 series	CJ1M	0	
		CJ1G	0	
		CP1H	0	
	CP1 series	CP1L	0	
		CP1E	0*4	0
		GPTE		0
Toshiba Machine*1	TC mini series		0	0
			Models with RS232 port	Models with RS485 port
		F3SP59-7S	0	
		F3SP58-6S	0	
			-	
		F3SP58-6H	0	
		F3SP53-4S	0	
		F3SP53-4H	0	
		F3SP38-6S	0	
Yokogawa Electric*1	FA-M3 series		_	
		F3SP38-6N	0	
		F3SP35-5N	0	
		F3SP28-3S	0	
		F3SP28-3N	0	
			0	
		F3SP25-2N	~	
		F3SP21-0N	0	
		KV-10/16/24/40	0	
		KV700		
KEYENCE*1	KV series	KV1000	0	0
REFEROE			-	<u> </u>
		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
	EH-150 series	EH-CPU316A	Ö	0
	ETT-TOU SCHOS			
		EH-CPU516	0	0
Hitachi		EH-CPU548	0	0
indoni		10-point		
		14-point	0	
		20-point	0	
	MICDO EU		-	6
	MICRO-EH series	23-point	0	0
		28-point	0	0
		40-point	0	
		64-point	0	
			0	
	Web Controller	10-point		
		23-point	0	0
ALLEN-BRADLEY*1	Micro Logic series	MicroLogix1000	0	
Models that support		SLC-5/03	0	
protocol	SLC-500 series	SLC-5/04	0	
		CPU222	0	0
		CPU216	0	0
Siemens*1	S7-200 series	CPU215	0	0
		CPU214	ŏ	0
			0	0
		CPU212	_	9
		80S	0	
1.011	MACTER	200S	0	
LG*1	MASTER-K series	300S	0	
			0	
		1000S		0
Modbus*1	Models that support RTU protocol	*3	0	0

Models listed are the models that have been evaluated as of September, 2009.

*1. PLCs other than Panasonic Electric Works FP series may be limited in the type of device that car

be used and addresses. Please see manual for details.

*3

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

O: 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 not possible Blank: Not evaluated.

General-purpose serial PEW dedicated protocol

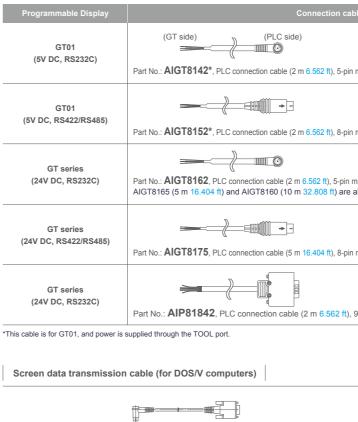
Refer to the "Technical Support Page" of our website (http://panasonic-electric-works.net/ac/e) for details, including the latest version of Terminal GTWIN, usable devices and addresses.

GTseries | Part Number List

Main Unit and Tool Software

			Description				
Product name	LCD	Power supply	Communication port	Color of main unit	SD memory card slot	Part number	
		5/50	RS232C			AIG02MQ03D	
		5V DC	RS422 (RS485)			AIG02MQ05D	
	STN monochrome		RS232C	-	Not available	AIG02MQ13D	
GT02M	(white/pink/red, backlight)		RS422 (RS485)	Hairline silver		AIG02MQ15D	
		24V DC	RS232C	-		AIG02MQ23D	
			RS422 (RS485)	-	Available	AIG02MQ25D	
			RS232C			AIG02GQ02D	
		5V DC	RS422 (RS485)	_		AIG02GQ04D	
				-	Not available		
GT02G	STN monochrome (green/orange/red, backlight)		RS232C	Pure black		AIG02GQ12D	
	(green/orange/red, backlight)	24V DC	RS422 (RS485)	-		AIG02GQ14D	
			RS232C	_	Available	AIG02GQ22D	
			RS422 (RS485)			AIG02GQ24D	
			RS232C	Pure black	Available	AIG05MQ02D	
GT05M	STN monochrome	24V DC		Hairline silver		AIG05MQ03D	
010011	(white/pink/red, backlight)		RS422 (RS485)	Pure black	Available	AIG05MQ04D	
			(10400)	Hairline silver	Available	AIG05MQ05D	
				Pure black		AIG05GQ02D	
	STN monochrome		RS232C	Hairline silver	Available	AIG05GQ03D	
GT05G	(green/orange/red, backlight)	24V DC		Pure black		AIG05GQ04D	
			RS422 (RS485)	Hairline silver	Available	AIG05GQ05D	
			RS232C	Pure black	Available	AIG05SQ02D	
	STN color	24V DC		Hairline silver		AIG05SQ03D	
GT05S			RS422 (RS485)		-		
				Pure black	Available	AIG05SQ04D	
				Hairline silver Pure black		AIG05SQ05D AIG12GQ02D	
			RS232C	Hairline silver Pure black	Available	AIG12GQ03D AIG12GQ12D	
GT12G	STN monochrome			Hairline silver		AIG12GQ13D	
	(green/orange/red, backlight)			Pure black Hairline silver	Available	AIG12GQ04D AIG12GQ05D	
		24V DC		Pure black Hairline silver		AIG12GQ14D AIG12GQ15D	
				RS232C	Pure black Hairline silver	Available	AIG12MQ02D AIG12MQ03D
GT12M	STN monochrome			102320	Pure black Hairline silver	Available	AIG12MQ12D AIG12MQ13D
GT12W	(white/pink/red, backlight)		RS422 (RS485)	Pure black Hairline silver	Ausilahla	AIG12MQ04D AIG12MQ05D	
				Pure black Hairline silver	Available	AIG12MQ14D AIG12MQ15D	
				Pure black		AIGT2230B	
			RS232C	Hairline silver	Not available	AIGT2230H	
GT21C	STN color	24V DC	24V DC		Pure black		AIGT2232B
			RS422 (RS485)	Hairline silver	Not available		
						AIGT2232H	
			RS232C	Pure black	Available	AIG32MQ02D	
GT32M	STN monochrome	24V DC		Hairline silver		AIG32MQ03D	
			RS422 (RS485)	Pure black	Available	AIG32MQ04D	
				Hairline silver		AIG32MQ05D	
			RS232C	Pure black	Available	AIG32TQ02D	
GT32T0	TFT color	24V DC		Hairline silver		AIG32TQ03D	
010210		1.1.00	D\$422 (D\$405)	Pure black	Available	AIG32TQ04D	
			RS422 (RS485)	Hairline silver	Available	AIG32TQ05D	
				Pure black		AIG32TQ12D	
			RS232C	Hairline silver	Available	AIG32TQ13D	
GT32T1	TFT color	24V DC		Pure black		AIG32TQ14D	
			RS422 (RS485)	Hairline silver	Available	AIG32TQ15D	
Terminal GTWIN Ver.2.A	English version	Terminal GTWIN CD	ROM			AIGT8001V2	

Cables PLC connection cable



9-pin D-SUB connector — 5-pin mini-DIN connector (L type: 3 m 9.843 ft) Part No.: AFC8503

*For GT05/GT32, please use a commercially available A-B type USB cable. *For GT02/GT12, please use a commercially available mini USB cable.

Different part numbers are applied to the cables available for Europe. Please refer to http://www.panasonic-electric-works.com/
 Different part numbers are applied to the cables available for North, Central and South Americas. Please refer to http://pewa.panasonic.com/acsd/

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 set. One set is installed on main unit.

 GT02
 Part No.: AIG02810

 GT05
 Part No.: AIG05810

 GT12
 Part No.: AIG12810

 GT21
 Part No.: AIG128121

 GT32
 Part No.: AIG32810

GT02/12 Part No.: AIG12830

00

mounting parts

5 sets of mounting parts

Package includes one set.

One set is installed on main

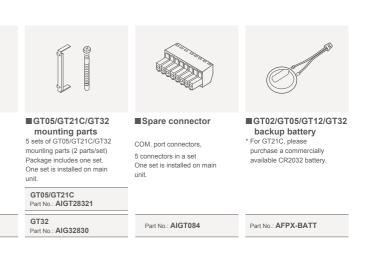
GT02/12

(4 parts/set)

unit.

able	PLC
in mini-DIN connector — 4 single wires + Shielding wire	Panasonic Electric Works FP Series
in mini-DIN connector — 6 single wires + Shielding wire	Mitsubishi Electric FX Series
n mini-DIN connector — 3 single wires + Shielding wire e also available.	Panasonic Electric Works FP Series
in mini-DIN connector — 4 single wires + Shielding wire	Mitsubishi Electric FX Series
), 9-pin D-SUB connector — open wire	Panasonic Electirc Works FP2/FP2SH COM port, 9-pin D-SUB connector example, CCU

9-pin D-SUB connector — 5-pin mini-DIN connector (Straight type: 3 m 9.843 ft) Part No.: AFC8503S



GTseries | specifications

		га	r02	GT05M / GT05G	GT05S	GT12M/GT12G		
	Item		24V/RS232C 24V/RS422	RS232C RS422	RS232C RS422	RS232C RS422		
Rated	voltage	5 V DC			24 V DC			
	ing voltage range	4.5 to 5.5 V DC			21.6 to 26.4 V DC			
Power consumption			1.011/	0.494		4.70%		
		1W max.	1.9W max.	2.4W max.	3.6W max.	1.7W max.		
	pply unit isolation method	_			Transformer isolation			
Ambier	t temperature			0 to 50C 3				
Ambier	nt humidity			20 to 85% RH (No con	idensation at 25C 77F)			
Storage	e temperature			-20 to 60C	-4 to 140F			
Storage	e humidity			10 to 85% RH (No con				
Vibratio	on resistance	5 to 8.4 Hz amplitude: 3.5 mm, 9 10 sweeps each in X, Y and	d Z directions (1 octave/min.)	10 to 55 Hz (1-minute cycle): Double amplitude: 0.75 mm	.030 inch, 10 minutes in each of the X, Y, and Z direc	tions 5 to 9 Hz amplitude: 3.5 mm, 9 to 150 Hz acceleration 9.8 m/s 10 sweeps each in X, Y and Z directions (1 octave/min.)		
Shock	resistance	147 m/s ² , 3 times in each	of the X, Y and Z directions	98 m/s ² min: 4 times in each	of the X, Y, and Z directions	147 m/s ² , 3 times in each of the X, Y and Z direction		
Superpo	sed noise suppression	1,000 V [P-P] min, pulse	width of 50 ns, 1 s between p	ower supply terminals (by a noise simulator) *AIGT00	30B1/AIGT0030H1: When the ferrite device suppli	ied with our PLC connection cable (AIGT8142) is mounted		
Enviro	nmental resistance	IP67 (in the ir	nitial stages)*1	IP65 (in the in	itial stages)*1	IP67 (in the initial stages)*1		
Mass		Approx. 170	0 g 5.997 oz	Approx. 230) g 8.113 oz	Approx. 240 g 8.658 oz		
Dis	play device	STN monoc	chrome LCD	STN monochrome LCD	STN color LCD	STN monochrome LCD		
Res	olution	240 (W) x	96 (H) dots	320 (W) x 2	240 (H) dots	320 (W) x 120 (H) dots		
Dis	play color	2 colors (b	black/white)	2 colors (black/white)	4.096 colors	2 colors (black/white, 8-gradation)		
s	playable area		3.484 (W) x 1.394 (H) inch	73.0 (W) x 55.2 (H) mm 2	874 (W) x 2 173 (H) inch	108.8 (W) x 40.8 (H) mm 4.283 (W) x 1.606 (H) incl		
<u> </u>	klight	GT02G: 3-color LED GT02M: 3-color LE	D (green, orange, red) ED (white, pink, red) r replacement	GT05M: 3-color LED (white, pink, red) GT05G: 3-color LED (green, orange, red) *No need for replacement	White LED *No need for replacement	GT12G: 3-color LED (green, orange, red) GT12M: 3-color LED (white, pink, red) *No need for replacement		
Font	t 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 96 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, TrueType (GTWIN): 10 to 240 dots, Windows [®] : 10 to 240 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. TrueType (GTWIN): 10 to 120 dots		
Lan	guages		ch, Turkish					
Gra	phics		Straight lines, contin	uous straight lines, squares, circles, ovals, arcs, o	elliptic arcs, fan shapes, elliptic fan shapes, b	eveled squares, bitmaps		
Nur	nber of screens* ⁴	Approx. 2	50 screens	Approx. 240 screens	Approx. 180 screens	2-gradation: Approx. 250 screens, 8-gradation: Approx. 200 screens		
Scr	en No. that can be set			Base screens	No. 0 to 3FF	o-gradation. Approx. 200 screens		
-unctio	t functions er functions	Messages, lamps, switches, data, bar graphs, clocks, keyboards, line graphs, and alarm list parts Recipe, flow display, write device, alarm record, alarm list, and language switching, GT link, Operation security, Data logging and SD recipe						
Clo	ck function	Provided with a built-in clock function. (Can also refer to and display a PLC clock.) *Buy a commercially available battery. Note: For the GT02 series, only GT02MQ2 and GT02GQ2 have a built-in clock.						
Cor	trast adjustment	Contrast can be adjusted by using the touch panel.						
Auto	natic communication settings	The communication speed (baud rate) is automatically changed if there is no response from the target equipment.						
Det	ugging function			nnected between a PC and PLC allows the PLC t				
	een creation	Dedicated software should be used. Applicable OS: Windows® 2000/XP/Vista/7						
Touch	key resolution			Free layout	(8 dots min.)			
	key operation force			0.8 N				
Touch	key life	Conforms Conforms	Conforms Conforms	1 million operations Conforms to RS232C Conforms to RS422	Conforms to RS232C Conforms to RS4	22 Conforms to RS232C Conforms to RS422		
COM. Port	Communication standard External communication conditions	to RS232C to RS422	22 Conforms to RS232C Conforms to RS422					
	Protocol	Our FP s	series supported/General-p	ourpose serial interface supported/Other compani	es' PLC supported (Refer to the compatible P	PLC list for manufacturers and models.)		
	Connector			Connector termi	nal base (8 pins)			
_	Communication standard Communication conditions with			USE	31.1			
Screen data	personal computers							
transfer interfac				Our dedicat	ted protocol			
	Connector	USB	Mini B	USB T	YPE-B	USB Mini B		
	Ethernet port*8		1		_			
User's	memory			F-R	OM			
	y capacity		2 Mb		12 Mbyte	2M Mbyte		
Memor			Only available with	100	SRAM	2 IVI WDyte		
	1	—	GT02MQ2 and GT02GQ2 Only available with		ORAW			

Conformance to the UL/cUL standards

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

						GT32M	
	Item	RS232C	RS422		RS232C		RS42
ted vo	ltage						
eratin	g voltage range						
wer co	onsumption	4.8V	/ max.				
Power supply unit isolation method			_				
bient	temperature	0 to 50C 3	2 to 122F* ²				
Ambient humidity						20 to	85% F
orage	temperature						-
orage	humidity					10 to	85% F
ratior	n resistance			10 to 55	5 Hz (1-minute cycle)	: Double am	plitude
ock re	sistance					98 m/s ² mi	n: 4 tim
erpos	ed noise suppression				1,000 V [P-P] min, j	oulse width o	of 50 ns
vironr	nental resistance						IP6
SS		Approx. 33) g 11.610 oz		Approx	500 g 17.63	87 oz
Displ	ay device	STN co	olor LCD		STN m	ionochrome	LCD
Reso	lution						3
Displ	ay color	256	colors		2 colo	ors (blue/whi	te)
Displ	ayable area	98.0 (W) x 74.0 (H) mm	3.858 (W) x 2.913	3 (H) inch	113.2 (W) x 86.4 (H)	mm 4.457 (V	/) x 3.40
Back	light						
Font types						acters can b	
Lang	uages			anese, English, Simplified Chinese, Trad			
Grap	hics	Straight lines, continuous straight lines, squares, c					
Num	ber of screens*4	Approx. 2	50 screens		Appro	ox. 240 scree	ens
Scree	n No. that can be set						Ba
Part f	functions				Messages, lamps,	switches, da	ita, bar
Othe	r functions		Recipe, fl				
Clock	function	Provided with a built-in clock function. (Can also n					
Cont	rast adjustment	Contrast can be adjusted by using the touch panel.					
Automa	tic communication settings	The communication speed (baud rate) is autor					
Debu	gging function			GT c	onnected between a	PC and PLC	c allows
Scree		Dedicated software should be used. Applicable OS: Windows® 95 (OSR2 or later)/ 98/Me/2000/NT/XP/Vista					Dedi
uch ke	ey resolution						Fi
uch ke	ey operation force						
uch ke	ey life					1	million
	-	Conforms to RS232C	Conforms to	RS422	Conforms to RS23	2C Conf	orms to
M.	External communication conditions						
	Protocol	Our FP	series supported	l/General	-purpose serial interf	ace support	ed/Othe
	Connector						Conne
	Communication standard	Tool port (Conf	orms to RS232C	:)			
een	Communication conditions with	Baud rate: 9,600/19,20 Data bits: 8 bits, Par	0/115,200/230,4 ity: None, Odd, I	00 bps*6			
a 1sfer		Stop L					(
erface	Connector	5-pip r	nini-DIN				
		o pint				_	
er's m	emory						
III	-	6.5				2 Mbyte	
mon	canacity					< muvie	
mory mory	capacity	0.0	Mbyte			.,	
	eratin wer cco er supp bient bient rage ratior rage ratior ock re erpose rironr ss Displ Displ Back Font Lang Grap Back Font Lang Grap Reso Displ Back Clock	ed voltage erating voltage range wer consumption er supply unit isolation method bient temperature bient humidity rage temperature consumption rage temperature inter resistance erposed noise suppression vironmental resistance ss Display device Resolution Display color Display device Resolution Display color Display device Resolution Display color Display able area Backlight Font types Languages Graphics Number of screens*4 Screen No. that can be set Part functions Clock function Contrast adjustment Automatic communication stings Debugging function Screen creation ich key resolution Contrast adjustment Automatic communication stings Debugging function Screen creation ich key resolution Contrast adjustment Automatic communication stings Debuging function Screen creation ich key resolution ich key resolution Connector Protocol Connector Protocol Pro	Item RS232C ed voltage erating voltage range wer consumption 4.8W er supply unit isolation method bient temperature 0 to 50C 3 bient humidity rage temperature radit radit bient temperature radit radit radit Backlight Resolution Graphics Number of screenst	RS232C RS422 ed voltage RS422 ed voltage	Item RS232C RS422 ed voltage environmental environmentet envita environmental envita environmental environmentenvir	lem RS232C RS422 RS232C ad voltage arsting voltage range serving voltage range ver consumption 4.8W max. ad voltage range err supply unit lodation method	Item RS232C RS422 RS232C ed voltage errating voltage range ver consumption 4.8V max. range voltage range 0.10 50C 32 to 122P ² bient humidity 0.10 50C 32 to 122P ² range humidity 0.10 50C 32 to 122P ² bient humidity 0.10 50C 32 to 122P ² range humidity 0.10 50C 32 to 122P ² range humidity 0.00 V [P-P] min, pulse width cristiance 98 m ² min seck resistance STN color LCD STN monochrome Resolution 96.0 (V) X 74.0 (H) m 3.88 (W) x 2.913 (H) inch 113.2 (W) x 8.4 (H) mm 4.457 (W Backlight White LED No need for replacement TrueType (GI Characters can h Approx. 250 screens Approx. 240 scree Graphics Straight lines, soutro-us straight lines, soutro-us straight lines, soutro-us straight lines, soutro-us straight lines, sou

*1. Dust-proof and drip-proof from the front of the panel only (Rubber packing is attached to the panel contact surface.) *When reattaching the panel, replace the waterproof packing.
*2. When the unit is being installed in a horizontal orientation or FP programmer II is being connected to the TOOL port, the usable range is 0 to +45C +32 to +113F.
*3. When the unit is being installed in a horizontal orientation, the usable range is 0 to +40C +32 to +104F.
*4. The number of screens that can be registered varies according to the registered contents.
*5. WAV format (PCM, 8-KHz sampling rate, 16 bits, mono), Maximum sound data capacity: 512 KB (approx. 30 sec), Maximum registrable number of sound data items: 128

	GT32T0	GT32T1				
422	RS232C RS422	RS232C RS422				
24 V	DC					
21.6 to 2	6.4 V DC					
10W	max.	12W max.				
	Transformer isolation					
	0 to 50C 32 to 122F*3					
RH (No con	densation at 25C 77F)					
-20 to 60C	-4 to 140F					
RH (No con	densation at 25C 77F)					
le: 0.75 mm	.030 inch, 10 minutes in each of the X, Y, and Z di	rections				
imes in each	of the X, Y, and Z directions					
ns, 1 s betwe	een power supply terminals (by a noise simulator)					
P65 (in the in	itial stages)*1					
	Approx. 470 g 16.579 oz	Approx. 480 g 16.932 oz				
	TFT co	lor LCD				
320 (W) x 2	40 (H) dots					
	4,096	colors				
402 (H) inch	110.8 (W) x 83.6 (H) mm	4.362 (W) x 3.291 (H) inch				
1	CFL *Not replaceable.					
	Average life; GT32M: 75,000 hours (at 25C 77F), GT32T: 50,000 hours (at 25C 77F)					
/IN):8 y 8 1	6 x 8, and 16 x 16 dots,					
played in the	1, 2, 4, or 8 times width or height,					
): 10 to 240 c	dots, Windows [®] : 10 to 240 dots					
ditional Chin	ese, Korean, German, Italian, Spanish, French, Te	urkish				
ovals, arcs, e	elliptic arcs, fan shapes, elliptic fan shapes, bevele	ed squares, bitmaps				
	Approx. 18	30 screens				
ase screens	: No. 0 to 3FF					
ar graphs, clo	ocks, keyboards, line graphs, and alarm list parts					
5 .p0, 010	graphic, and diaminist pure					
	n record, alarm list, language switching,	· · · · · · · · · · · · · · · · · · ·				
ion security,	Data logging and SD recipe	Sound output *5				
refer to and	display a PLC clock.) *Buy a commercially availab	ble battery.				
		ustable				
	hanged if there is no response from the target equi					
ws the PLC t	o be debugged without a direct connection with th	e PG.				
dicated softw	vare should be used. Applicable OS: Windows® 2	000/XP/Vista/7				
Eree lower d	(8 date min)					
Free layout (0.8 N						
	s min. (at 25C 77F)					
to RS422	Conforms to RS232C Conforms to RS422	Conforms to RS232C Conforms to RS422				
	8,400/57,600/115,200 bps	00.101113 10 10422				
	8,400/57,600/115,200 bps one, Odd, Even, Stop bits: 1 bit					
		st for manufacturers and models.)				
her companies' PLC supported (Refer to the compatible PLC list for manufacturers and models.)						
	USB1.1					
	—					
Our dedicat	ed protocol					
	USB TYPE-B					
		Yes (100BASE-TX, 10BASE-T) *7, *8				
F-R	OM					
		r.1.10 or later)				
SR						
	Lithium battery (replaceable)					
	AFPX-BATT *Does not come with product.					
When th cannot b *7. The uni *8. Commu	AFPX-BATT "boes not come with product *6. A USB/RS232C conversion cable should be used to achieve a communication speed of 230,400 bps. When the TOOL port of GT is set to 230,400 bps, the auto communication setting function of GTWIN cannot be used. Set the communication speed to 230,400 or GTWIN before transferring data. *7. The unit caries out serial communication data processing at 115.2kbits/s. *8. Communications with external equipment (PLC) are not available. *9. Simultaneous USB and Ethernet communications are not possible.					

*10. The data logging and SD recipe functions are available with only models equipped with an SD/SDHC memory card slot. GTseries