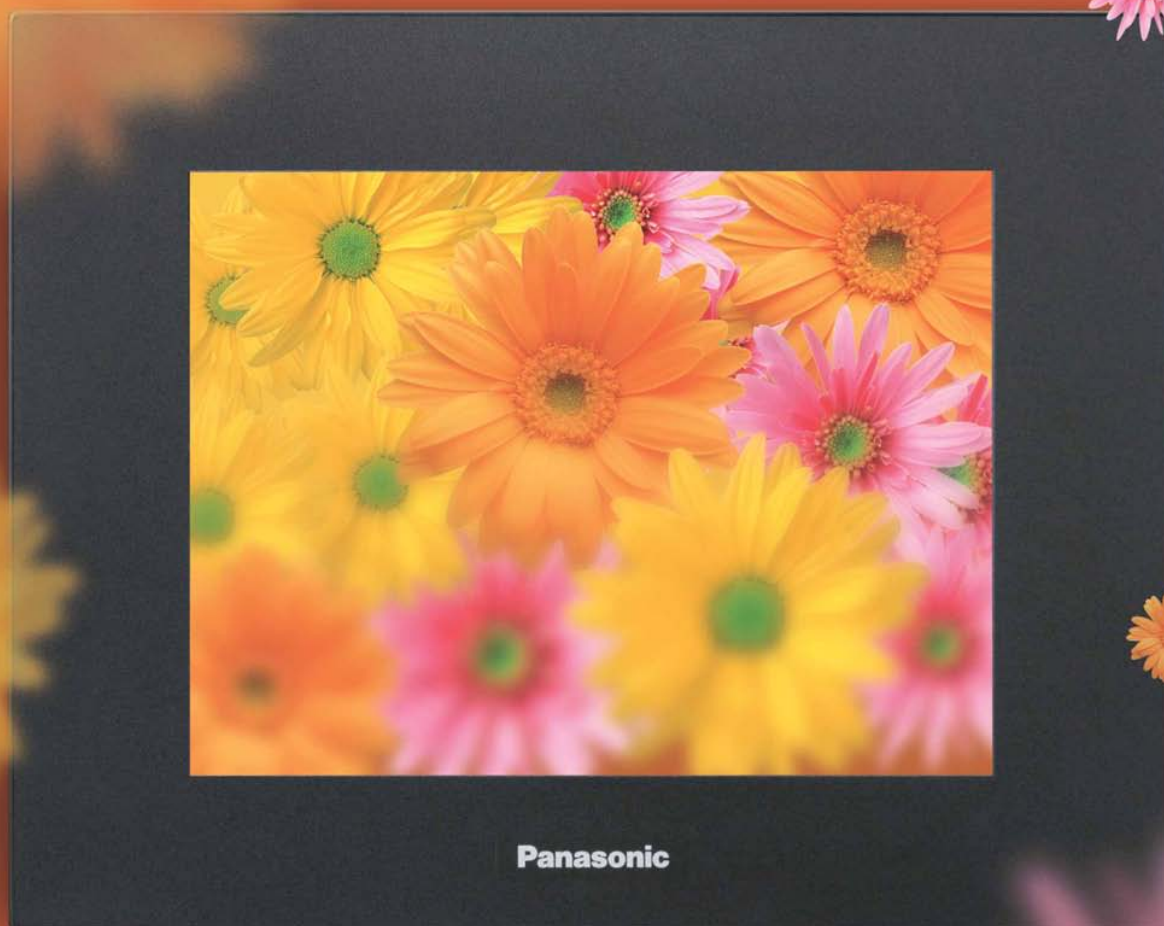


Panasonic
ideas for life

GTseries

Programmable Display

GT01 GT01R GT05 GT11 GT21C GT32



Touch and feel the vividness.

All LCD pictures in this catalog are simulated images.

Programmable Display GT series
ARCT1B305E '08.4

New

Matsushita Electric Works, Ltd.



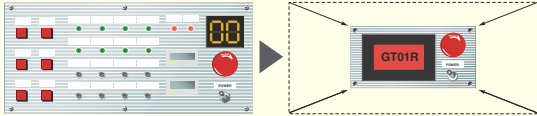
				
GT05G	GT05S	GT21C	GT32M	GT32T0 GT32T1
24V DC	24V DC	24V DC	24V DC	24V DC
3.5 inch	3.5 inch	4.7 inch	5.7 inch	5.5 inch
STN monochrome LCD	STN color LCD	STN color LCD	STN monochrome LCD	TFT color LCD
2 colors (black/white)	4,096 colors	256 colors	2 colors (blue/white)	4,096 colors
320 (W) × 240 (H)	320 (W) × 240 (H)	320 (W) × 240 (H) dots	320 (W) × 240 (H) dots	320 (W) × 240 (H) dots
3-color LED (green/orange/red)	White LED	White LED	CFL	CFL
768 characters	768 characters	768 characters	768 characters	768 characters
2 Mbyte	12 Mbyte	6.5 Mbyte	2 Mbyte	12 Mbyte
RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)
○	○	—	○	○ ○
—	—	—	—	— ○
○	○	—	○	○ ○
—	—	—	—	— ○

GT series programmable displays pursuing
the fundamentals of communication ultimately
brings out the beauty of functionality.

Look, listen, and touch.

Cost and space saving

Eliminates the need for arranging many parts, securing a stock of parts, and wiring each switch.



- Improves the design and operability
- Easy to change the settings by model and user

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.

	Japanese	English	Simplified Chinese	Traditional Chinese	Korean
000 SW0	日本語	English	简体中文	繁體中文	한국어
000 SW0	ありがとうございました	Thank you	热烈欢迎	热烈欢迎	안녕하
000 SW1	1	1	1	1	1
000 SW1	2	2	2	2	2

Wide variety of functions

"Write Device function"



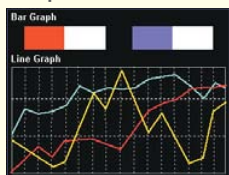
This function modifies the PLC data or turns bits on/off according to the PLC status or the screen No.

"Recipe function"



Settings by product item and other data (up to 3,600 words) can be transferred to PLC, simplifying PLC programming.

"Graph function"



You can identify the production or operation status in line or bar graph form.

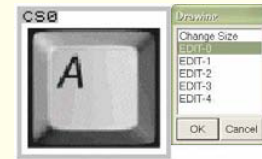
"Flow Display function"



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

Custom switches

Capable of creating custom switches using bitmap data, multicolor custom lamps, and display of multiple text messages.



Compatible with the eight languages for the GTWIN menu

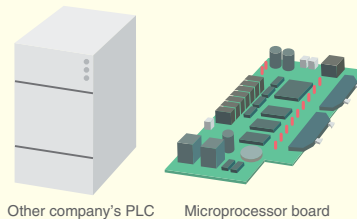
<Available languages>



RS232C/RS422 (RS485) Interface

Equipped with an RS232C/RS422 (RS485) serial port, which allows connection with a PLC from various companies (Please refer to the PLC Compatibility table.)

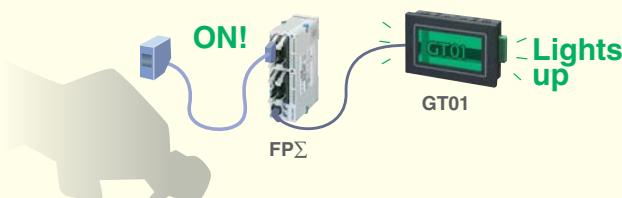
*The RS422 type can be connected at a maximum distance of 500m.



Also supports connection with a PLC of another company or a microprocessor board.

The backlight can be controlled via PLC.

For example, when a sensor detects a person, the display backlight can be turned by an instruction from a PLC. It is also possible to turn off the backlight when a preset period of time elapses after the last operation.



Startup screen

An original screen can be displayed for a specified period of time after startup.



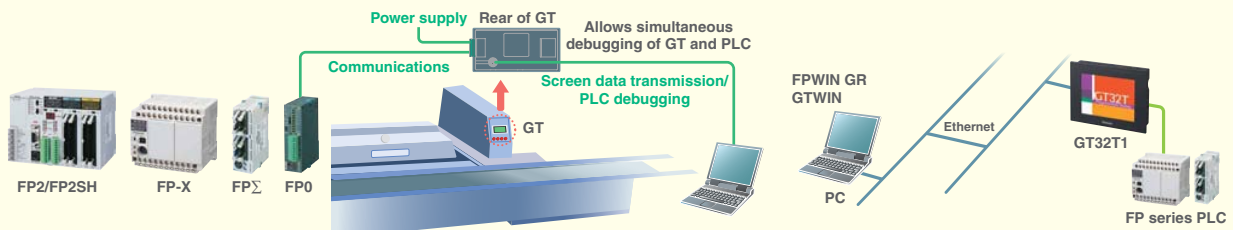
Features 3

Simple maintenance

High-efficiency operation by the “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.

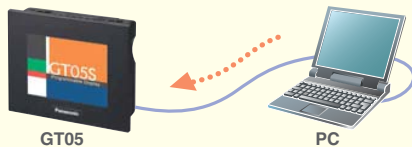


USB interface equipment

(GT05/GT32)

You can connect your PC and GT using your USB cable to transfer screen data.

*Also supports the “through” function for our FP series PLC.



Slot for SD memory card of up to 1 GB

(GT05/GT32)

Easy to copy screen data. Also serves as storage for output sound files. (GT32T1)



Maintenance-free LED backlight

(GT01/GT01R/GT05/GT11/GT21C)

The use of the LED backlight eliminated backlight replacement work.

Transformer-isolated power supply

(GT05/GT32)

The isolated power supply enhances the reliability.

Alarm list

(GT05/GT11/GT21C/GT32)

Alarm activation, check, and recovery can be recorded and displayed.

Line 1 Alarm History	
04/12/24 22:55:57	Ack. Valve OPEN
04/12/24 22:56:22	Trig. Valve OPEN
04/12/24 22:59:59	Rev. Valve OPEN
04/12/25 00:00:01	Ack. Sensor4 Temp. contr.
UP Δ DOWN BACK	

(GT11)

LINE A2 Alarm History	
10/12/05 10:02:14	BOV VALVE3 OK
10/12/05 10:01:12	BOV SENSOR1 TEMP. STABLE
10/12/05 10:58:05	ACK VALVE3 OPEN.
10/12/05 08:58:01	TRIG VALVE3 OPEN.
10/12/05 10:58:58	TRIG SENSOR1 TEMP. OVER
10/12/05 08:58:17	SECURITY COVER OK
10/12/05 08:57:43	SECURITY COVER OPEN
10/12/05 08:57:32	TRIG SECURITY COVER OPEN

(GT21C)

Firmware upgrade

The display firmware is automatically upgraded when screen data is transferred. The firmware can be updated by downloading the latest version of Terminal GTWIN from our website (<http://www.mew.co.jp/ac/e/>).

GT05S

Compact Programmable Display

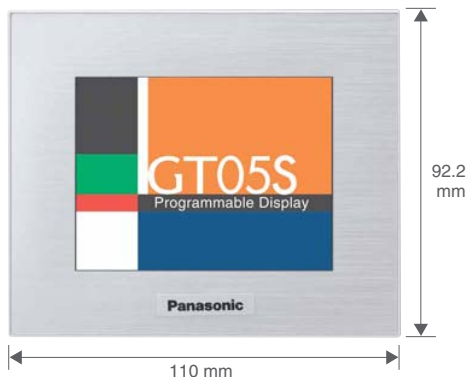
The industry's smallest 3.5-inch STN color display capable of displaying colorful images in a limited space

3.5 inch 

Pure black



Hairline silver



3.5-inch STN 4,096-color QVGA LCD with a wide viewing angle

Although the LCD is an STN type, a wide viewing angle (50 deg horizontally, 60 deg vertically) has been achieved, improving visibility from different angles.

The new backlight provides twice the brightness^{*2}.

SD memory card slot as standard equipment (1 GB max)

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-dot maximum size can be displayed.

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

Transformer-isolated power supply

The isolated power supply enhances the reliability.



^{*1}: Note that the COM port connector projects an additional 3.9 mm. Also take the cable diameter must be taken into account.

^{*2}: Compared with GT21C

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

GT32T0/T1

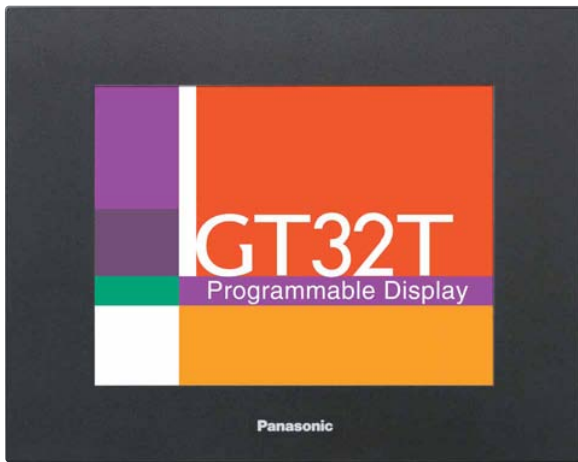
Programmable Display

Amazingly beautiful and vivid
4,096-color TFT LCD

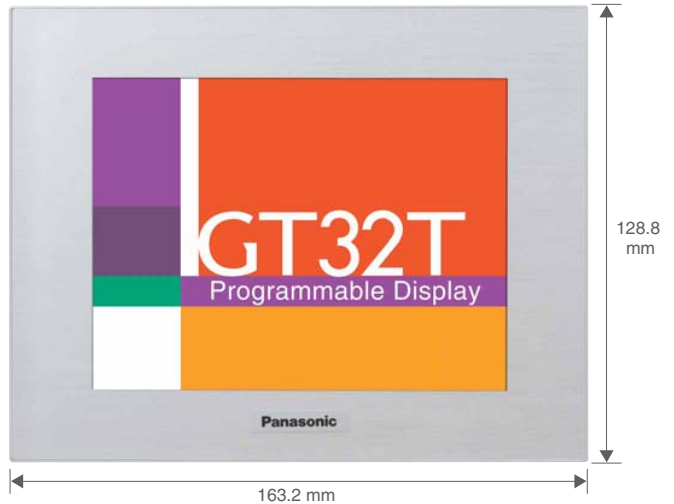
5.5 inch



Pure black



Hairline silver



The 4,096-color TFT LCD screen displays magnificent quality images.

The industry's smallest size in the 5-inch class, and 39.1-mm thin and cool body design

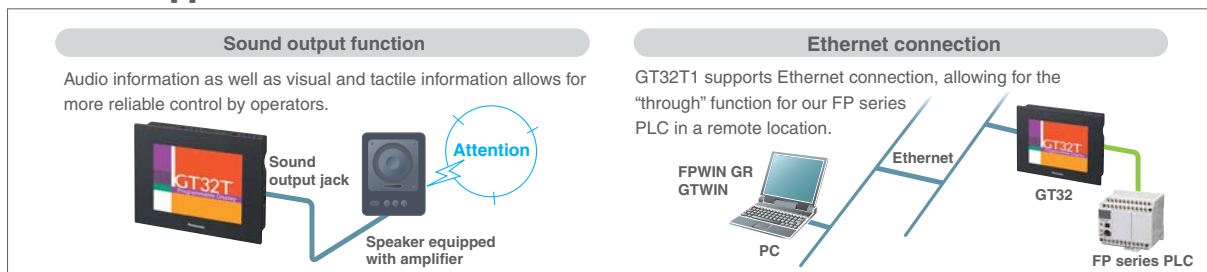
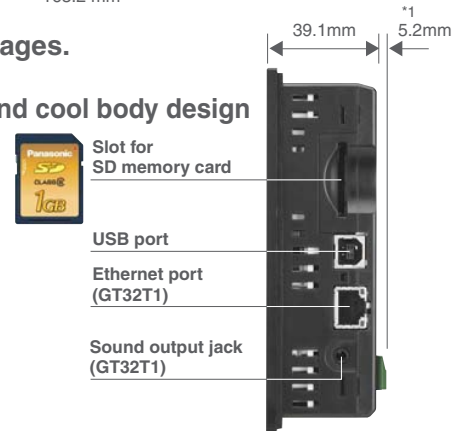
SD memory card slot as standard equipment (1 GB max)

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

USB interface as standard equipment

Transformer-isolated power supply

GT32T1 supports:



*1: Note that the COM port connector projects an additional 5.2mm. Also take the cable diameter must be taken into account.
• The panel face protection sheet for the GT series is available as an option.

GT11

Compact Programmable Display

The 4-inch wide screen equipped with a high-definition LCD can display a lot of information in its small space.

4 inch  

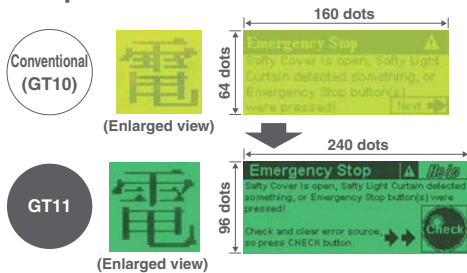
Black



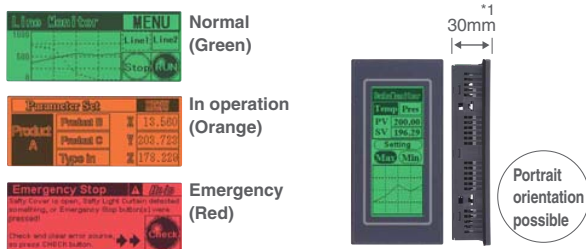
Ash gray



Approx. doubled information capacity compared with GT10



Three-color backlight shows the equipment status.



4 inch	STN monochrome (white/black)	3-color LED backlight (green/orange/red)	24 chars. x9 lines (10-dot font)	240 x96 dots	24V DC
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*1: When the panel thickness is 5 mm, the screw head of the mounting bracket protrudes 4 mm.

*2: Note that the COM port connector projects an additional 7mm. Also take the cable diameter must be taken into account.

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

GT21C

Programmable Display

4.7-inch STN 256-color type.

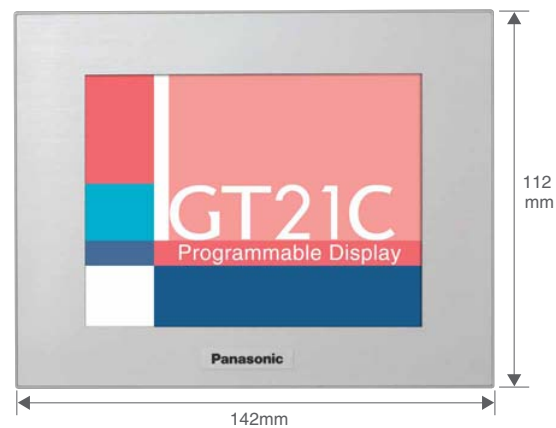
The image vividness is equivalent to that of the 5.7-inch type display, which can be replaced with this model.

4.7 inch  

Pure black



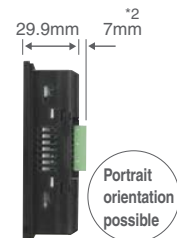
Hairline silver



Maintenance-free white LED backlight

The total depth (excluding the display frame) is 29.9 mm, fitting a variety of installation locations.


Portrait orientation possible



4.7 inch	STN 256 colors	White LED backlight	32 chars. x24 lines (10-dot font)	320 x240 dots	24V DC
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Models listed are the models that have been evaluated as of March, 2008.

Company	Series	Model	GT01/GT01R/GT05/GT11/GT21/GT32	
			RS232C type	RS422 (RS485) type*2
Matsushita Electric Works	FP series	FP-X	○	○
		FPΣ	○	○
		FP-e	○	○
		FP0	○	○
		FP2	○	○
		FP2SH	○	○
Mitsubishi Electric*1	FX series	FX0N	○	○
		FX1S	○	○
		FX1N	○	○
		FX1NC	○	○
		FX2N	○	○
		FX2NC	○	○
		FX3UC	○	○
		FX3U	○	○
	Q series	Q00CPU	○	
		Q01CPU	○	
		Q00JCPU	○	
		Q00HCPU	○	
		Q25HCPU	○	
		Q12HCPU	○	
		Q06HCPU	○	
		Q02HCPU	○	
		Q02CPU	○	
	A series	A1N	○	
		A2N	○	
		A3N	○	
		A1S	○	
		A1SJ	○	
		A2SH	○	
		A1SH	○	
		A2CCPU24	○	
	C series	C200H	○	
		C200HS	○	
		C500	○	
		C500F	○	
		C1000H	○	
		C2000	○	
		C2000H	○	
		C1000HF	○	
		C20H	○	
		C28H	○	
		C40H	○	
		C120	○	
		C120F	○	
		CQM1-CPU42	○	
		SRM1-C02	○	
		CPM2A	○	
		CPM1-20CDR-A	○	
		CQM1H-CPU21	○	
		CPM2C	○	
		CPM2B	○	
Omron*1	C series	C200HE-CPU32-Z	○	
		C200HE-CPU32	○	
		C200HG-CPU33-Z	○	
		C200HG-CPU33	○	
		C200HG-CPU53-Z	○	
		C200HG-CPU53	○	
		C200HX-CPU34-Z	○	
		C200HX-CPU34	○	
		C200HX-CPU54-Z	○	
		C200HX-CPU54	○	
		C200HE-CPU42-Z	○	
		C200HE-CPU42	○	
		C200HG-CPU43-Z	○	
		C200HG-CPU43	○	
		C200HG-CPU63-Z	○	
		C200HG-CPU63	○	
		C200HX-CPU44-Z	○	
		C200HX-CPU44	○	
		C200HX-CPU64-Z	○	
		C200HX-CPU64	○	
	α series	C200HX-CPU65-Z	○	
		C200HX-CPU85-Z	○	
		CV500	○	
		CV1000	○	
		CVM1	○	

Company	Series	Model	GT01/GT01R/GT05/GT11/GT21/GT32	
			RS232C type	RS422 (RS485) type*2
Omron*1	CS1 series	CS1H-CPU67	○	
		CS1H-CPU66	○	
		CS1H-CPU65	○	
		CS1H-CPU64	○	
		CS1H-CPU63	○	
		CS1G-CPU45	○	
		CS1G-CPU44	○	
		CS1G-CPU43	○	
	CJ1 series	CS1G-CPU42	○	
		CJ1H		
		CJ1M	○	
CP1 series	CJ1G	○		
	CP1H	○		
	CP1L	○		
Toshiba Machine*1	TC mini series		○	○
			Models with RS232 port	Models with RS485 port
Yokogawa Electric*1	FA-M3 series	F3SP59-7S	○	
		F3SP58-6S	○	
		F3SP58-6H	○	
		F3SP53-4S	○	
		F3SP53-4H	○	
		F3SP38-6S	○	
		F3SP38-6N	○	
		F3SP35-5N	○	
		F3SP28-3S	○	
		F3SP28-3N	○	
		F3SP25-2N		
F3SP21-0N	○			
KEYENCE*1	KV series	KV-10/16/24/40	○	
		KV700	○	○
		KV1000	○	○
Hitachi 	EH-150 EHV series	EHV-CPU128	○	○
		EHV-CPU64	○	○
		EHV-CPU32	○	○
		EHV-CPU16	○	○
	EH-150 series	EH-CPU104A	○	○
		EH-CPU208A	○	○
		EH-CPU316A	○	○
		EH-CPU516	○	○
		EH-CPU548	○	○
	MICRO-EH series	10-point		
		14-point	○	
		20-point	○	
		23-point	○	○
		28-point	○	○
40-point		○		
Web Controller	64-point	○		
	10-point	○		
	23-point	○	○	
ALLEN-BRADLEY*1 Models that support protocol	Micro Logic series	MicroLogix1000	○	
	SLC-500 series	SLC-5/03	○	
		SLC-5/04	○	
Siemens*1	S7-200 series	CPU222	○	○
		CPU216	○	○
		CPU215	○	○
		CPU214	○	○
		CPU212	○	○
LG*1	MASTER-K series	80S	○	
		200S	○	
		300S	○	
		1000S	○	
Modbus*1	Models that support RTU protocol	*3	○	○
General-purpose serial	MEW dedicated protocol	*3	○	○

*1. PLCs other than Matsushita Electric Works 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.

○: Direct connection is possible to the CPU unit of the PLC.

○: Connection is possible using the communications unit or a signal conversion cable, etc.





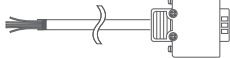
(Example: The QJ71C24N or QJ71C24N-R2 calculator link unit is required when using the Mitsubishi Q Series.)

×: Connection is not possible

Blank: Not evaluated.

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

Cables | PLC connection cable

Programmable Display	Connection cable	PLC
GT01/GT01R (5V DC, RS232C)	 <p>Part No.: AIGT8142*, PLC connection cable (2 m), 5-pin mini-DIN connector — 4 single wires + Shielding wire</p>	Matsushita Electric Works FP Series
GT01/GT01R (5V DC, RS422/RS485)	 <p>Part No.: AIGT8152*, PLC connection cable (2 m), 8-pin mini-DIN connector — 6 single wires + Shielding wire</p>	Mitsubishi Electric FX Series
GT series (24V DC, RS232C)	 <p>Part No.: AIGT8162, PLC connection cable (2 m), 5-pin mini-DIN connector — 3 single wires + Shielding wire AIGT8165 (5 m) and AIGT8160 (10 m) are also available.</p>	Matsushita Electric Works FP Series
GT series (24V DC, RS422/RS485)	 <p>Part No.: AIGT8175, PLC connection cable (5 m), 8-pin mini-DIN connector — 4 single wires + Shielding wire</p>	Mitsubishi Electric FX Series
GT series (24V DC, RS232C)	 <p>Part No.: AIP81842, PLC connection cable (2 m), 9-pin D-SUB connector — open wire</p>	Matsushita Electric Works FP2/FP2SH COM port, 9-pin D-SUB connector example, CCU

*This cable is for GT01/GT01R, and power is supplied through the TOOL port.

Screen data transmission cable (for DOS/V computers)

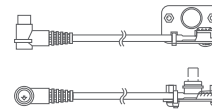


9-pin D-SUB connector —
5-pin mini-DIN connector (L type: 3 m)
Part No.: **AFC8503**



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

Tool port panel extension cable



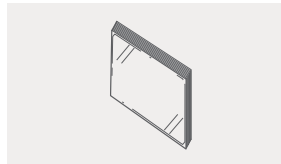
Part No.: **AFC8532**

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

• Different part numbers are applied to the cables available for Europe. Please refer to <http://www.panasonic-electric-works.com/>

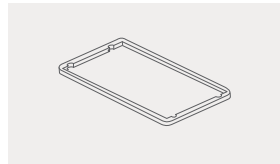
• Different part numbers are applied to the cables available for North, Central and South Americas. Please refer to <http://pewa.panasonic.com/acsd/>

Options



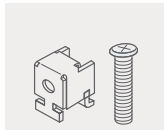
■ **Panel face protection sheets**
10 sheets in a set (option)

GT01	Part No.: AIGT080
GT01R	Part No.: AIGT080R
GT05	Part No.: AIG05800
GT11	Part No.: AIGT280
GT21	Part No.: AIGT28021
GT32	Part No.: AIG32800



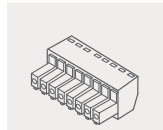
■ **Waterproof packing**
Waterproof packing (for replacement), 10 pieces in a set
Package includes one set. One set is installed on main unit.

GT01, GT01R	Part No.: AIGT081
GT05	Part No.: AIG05810
GT11	Part No.: AIGT181
GT21	Part No.: AIGT28121
GT32	Part No.: AIG32810



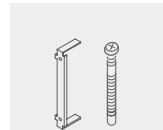
■ **GT01/GT01R/GT11 mounting parts**
5 sets of mounting parts (4 parts/set)
Package includes one set.
One set is installed on main unit.

Part No.: **AIGT083**



■ **Spare connector**
COM, port connectors, 5 connectors in a set
One set is installed on main unit.

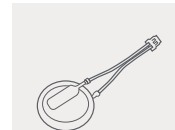
Part No.: **AIGT084**



■ **GT05/GT21C/GT32 mounting parts**
5 sets of GT05/GT21C/GT32 mounting parts (2 parts/set)
Package includes one set.
One set is installed on main unit.

GT05/GT21C
Part No.: **AIGT28321**

GT32
Part No.: **AIG32830**



■ **GT05/GT32 backup battery**
* For GT11 and GT21C, please purchase a commercially available CR2032 battery.

Part No.: **AFPX-BATT**

Item		GT21C		GT32M		GT32T0		GT32T1	
		RS232C	RS422	RS232C	RS422	RS232C	RS422	RS232C	RS422
Rated voltage		24 V DC							
Operating voltage range		21.6 to 26.4 V DC							
Power consumption		4.8W max.		10W max.				12W max.	
Power supply unit isolation method		—		Transformer isolation					
Ambient temperature		0 to 50°C* ²		0 to 50°C* ³					
Ambient humidity		20 to 85% RH (No condensation at 25°C)							
Storage temperature		-20 to 60°C							
Storage humidity		10 to 85% RH (No condensation at 25°C)							
Vibration resistance		10 to 55 Hz (1-minute cycle): Double amplitude: 0.75 mm, 10 minutes in each of the X, Y, and Z directions							
Shock resistance		98 m/s ² min: 4 times in each of the X, Y, and Z directions							
Superposed noise suppression		1,000 V [P-P] min, pulse width of 50 ns, 1 μs between power supply terminals (by a noise simulator)							
Environmental resistance		IP65 (in the initial stages) 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.							
Mass		Approx. 330 g		Approx. 500 g		Approx. 470 g		Approx. 480 g	
Display	Display device	STN color LCD		STN monochrome LCD		TFT color LCD			
	Resolution	320 (W) x 240 (H) dots							
	Display color	256 colors		2 colors (blue/white)		4,096 colors			
	Displayable area	98.0 (W) x 74.0 (H) mm		113.2 (W) x 86.4 (H) mm		110.8 (W) x 83.6 (H) mm			
	Backlight	White LED *No need for replacement		CFL *Not replaceable. Average life: GT32M: 75,000 hours (at 25°C), GT32T: 50,000 hours (at 25°C)					
Functions	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 240 dots, Windows®: 10 to 240 dots							
	Languages	Japanese, English, Korean, German, French, Spanish, Italian, Simplified Chinese, Traditional Chinese, Turkish							
	Graphics	Straight lines, continuous straight lines, squares, circles, ovals, arcs, elliptic arcs, fan shapes, elliptic fan shapes, beveled squares, bitmaps							
	Number of screens* ⁴	Approx. 250 screens		Approx. 240 screens		Approx. 180 screens			
	Screen No. that can be set	Base screens: No. 0 to 3FF, Keyboard screens: No. 0 to 7							
	Part functions	Messages, lamps, switches, data, bar graphs, clocks, keyboards, line graphs, and alarm list parts							
	Other functions	Recipe, flow display, write device, alarm record, alarm list, and language switching						Sound output *5	
	Clock function	Provided with a built-in clock function. (Can also refer to and display a PLC clock.) *Buy a commercially available battery.							
	Contrast adjustment	Contrast can be adjusted by using the touch panel.				Not adjustable			
	Automatic communication settings	The communication speed (baud rate) is automatically changed if there is no response from the target equipment.							
	Debugging function	GT connected between a PC and PLC allows the PLC to be debugged without a direct connection with the PC.							
	Screen creation	Dedicated software should be used. Applicable OS: Windows® 95 (OSR2 or later)/ 98/Me/2000/NT/XP/Vista			Dedicated software should be used. Applicable OS: Windows® 2000/XP/Vista				
Touch key resolution		Free layout (8 dots min.)							
Touch key operation force		0.8 N max.							
Touch key life		1 million operations min. (at 25°C)							
COM. Port	Communication standard	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422
	External communication conditions	Baud rate: 9,600/19,200/38,400/57,600/115,200 bps							
	Protocol	Data bits: 7 or 8 bits, Parity: None, Odd, Even, Stop bits: 1 bit							
	Connector	Our FP series supported/General-purpose serial interface supported/Other companies' PLC supported (Refer to the compatible PLC list for manufacturers and models.)							
Screen data transfer interface	Connector	Connector terminal base (8 pins)							
	Communication standard	Tool port (Conforms to RS232C)		USB1.1					
	Communication conditions with personal computers	Baud rate: 9,600/19,200/115,200/230,400 bps*6 Data bits: 8 bits, Parity: None, Odd, Even, Stop bits: 1 bit		—					
	Protocol	Our dedicated protocol							
	Connector	5-pin mini-DIN		USB TYPE-B					
Ethernet port* ⁹		—						Yes (100BASE-TX, 10BASE-T) *7, *8	
User's memory		F-ROM							
Memory capacity		6.5 Mbyte		2 Mbyte		12 Mbyte (Ver.1.10 or later)			
Memory		SRAM							
Memory backup		Lithium battery (replaceable) CR2032, commercially available *Does not come with product.		Lithium battery (replaceable) AFPX-BATT *Does not come with product.					

*1. When the unit is being installed in a portrait orientation or FP programmer II is being connected to the TOOL port, the usable range is 0 to +45°C.
*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 +45°C.
*3. When the unit is being installed in a horizontal orientation, the usable range is 0 to +40°C.
*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

*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 bps on GTWIN before transferring data.
*7. The unit carries out serial communication data processing at 115.2kbts/s.
*8. Communications with external equipment (PLC) are not available.
*9. Simultaneous USB and Ethernet communications are not possible.

