Panasonic
ideas for life

GTseries
Programmable Display

GT01 GT01R GT11 GT21C GT32M/T
NEW   NEW

So real you'll want to touch it.

Panasonic

Programmable Display GT Series
ARCT1B279E '06.12

New

Matsushita Electric Works, Ltd.

Feel the sophisticated operability through the touch panel.

GT32M/GT32T Actual size

GTseries

Lineup of a variety of color types

GT21C
5 inch
320×240 dots
STN color LCD
256 colors
White LED backlight
Analog-touch panel
RS232C/RS422 (RS485)

GT32M NEW
6 inch
320×240 dots
STN monochrome LCD (white/blue)
Long-life CFL backlight
Analog-touch panel
RS232C/RS422 (RS485)
USB
SD

GT32T NEW
6 inch
320×240 dots
TFT color LCD
4096 colors
CFL backlight
Analog-touch panel
RS232C/RS422 (RS485)
USB
SD
Ethernet (for GT32T1)
Sound output (for GT32T1)

GT01
3 inch
128×64 dots
3-color LED backlight (green/orange/red)
Analog-touch panel
RS232C/RS422 (RS485)

GT01R NEW
3 inch
128×64 dots
3-color LED backlight (white/red/pink)
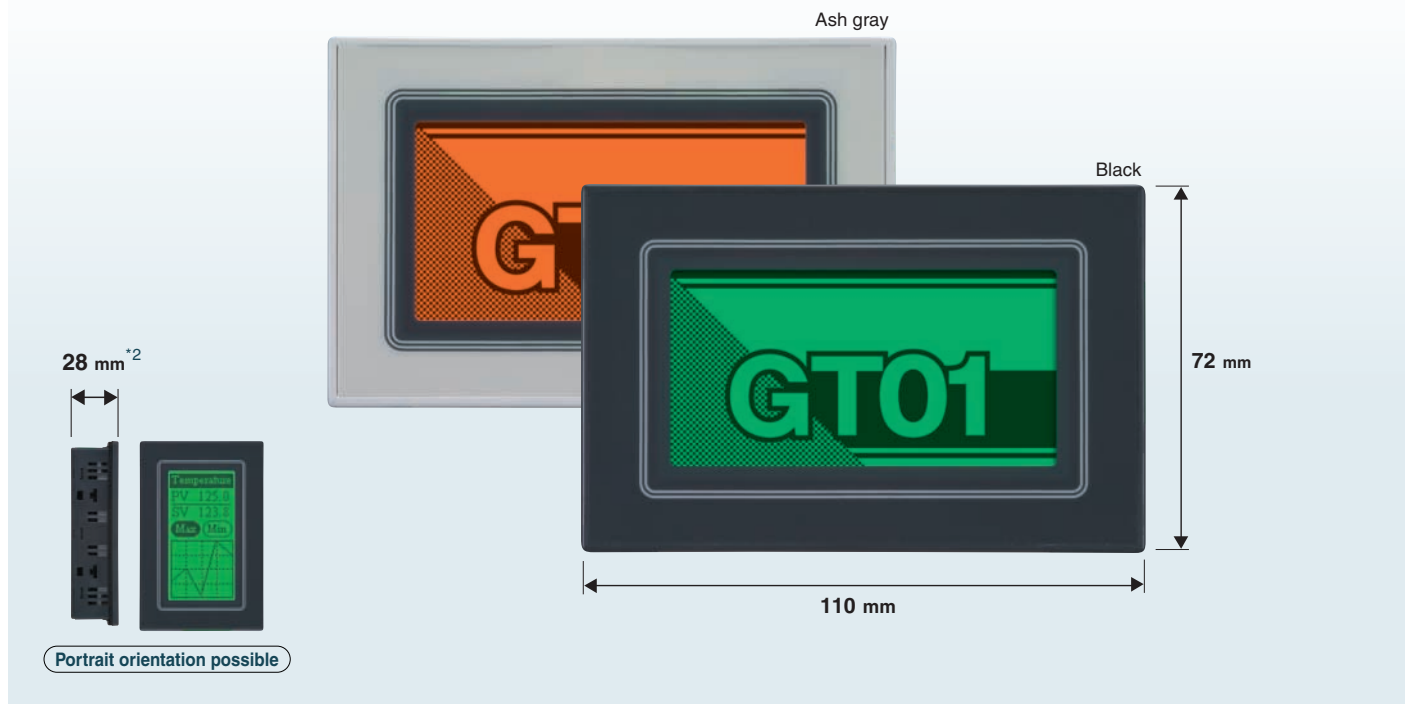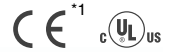Analog-touch panel
RS232C/RS422 (RS485)

GT11
4 inch
240×96 dots
3-color LED backlight
(green/orange/red)
White LED backlight
Analog-touch panel
RS232C/RS422 (RS485)

Functions

		GT01	GT01R	GT11	GT21C	GT32M	GT32T0	GT32T1 (High-end)
	Rated voltage	5V DC/ 24V DC	5V DC/ 24V DC	24V DC	24V DC	24V DC	24V DC	
Display	Screen size	3 inch	3 inch	4 inch	5 inch	6 inch	6 inch	
	Display device	STN monochrome LCD	STN monochrome LCD	STN monochrome LCD	STN color LCD	STN monochrome LCD	TFT color LCD	
	Display color	2 colors (black/white)	2 colors (black/white)	2 colors (black/white)	256 colors	2 colors (blue/white)	4,096 colors	
	Resolution	128 (W)×64 (H) dots	128 (W)×64 (H) dots	240 (W)×96 (H) dots	320 (W)×240 (H) dots	320 (W)×240 (H) dots	320 (W)×240 (H) dots	
	Backlight	3-color LED (green/orange/red)	3-color LED (white/red/pink)	3-color LED (green/orange/red)/ White LED	White LED	CFL	CFL	
	Displayable characters	72 characters	72 characters	216 characters	768 characters	768 characters	768 characters	
	Memory capacity (F-ROM)	384 Kbyte	384 Kbyte	1.375 Mbyte	6.5 Mbyte	2,048 Kbyte	10,176 Kbyte	
External interface	Serial port	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	RS232C / RS422 (RS485)	
	USB port	—	—	—	—	○	○	○
	Ethernet	—	—	—	—	—	—	○
	SD memory card	—	—	—	—	○	○	○
	Sound output jack	—	—	—	—	—	—	○

3 inch monochrome	3-color backlight (green/orange/red)	12 chars. ×6 lines	128×64 dots	Free switch layout (8×8 dots min.)	RS232C/ RS422 (RS485)	Through function	5V DC/ 24V DC

Ultra compact size with all the features required for control panels

CE *1   c(UL)us

Ash gray

Black

28 mm *2

72 mm

110 mm

Portrait orientation possible

A variety of expressions clearly displayed in three colors

■ The highly visible three-color backlight shows the equipment status and enhances the equipment style.

The bright and easy-to-read LCD indicates messages, graphics, switches, lamps, PLC data, graphs, clocks*3, and others in any layout you want. In addition, three backlight colors can be selected according to the equipment status. This allows you to identify the status at a glance.

70% brighter
(than our conventional model) *4
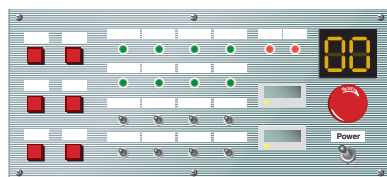
Normal (Green)

In operation (Orange)
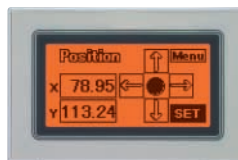
Emergency (Red)

Cost and space saving (GT01/GT01R)

■ GT01 is a shortcut to cost reduction.

Total cost 1/5 *5

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

■ There are two types of power supplies (5 V DC/24 V DC) and two types of communication [RS232C/RS422 (RS485)]. Connection with PLCs of a variety of manufacturers is possible.
(Please refer to the compatible PLC list.)

The 24 V RS422 type can be connected at a maximum distance of 500m.

GT01R
Ultra Compact Programmable Display

3 inch monochrome	3-color backlight (white/red/pink)	12 chars. ×6 lines	128×64 dots	Free switch layout (8×8 dots min.)	RS232C/ RS422 (RS485)	Through function	5V DC/ 24V DC

New face with a cool design and a full load of functions required for control panels

CE *1

Hairline silver

Pure black

28 mm *2

72 mm

110 mm

Portrait orientation possible
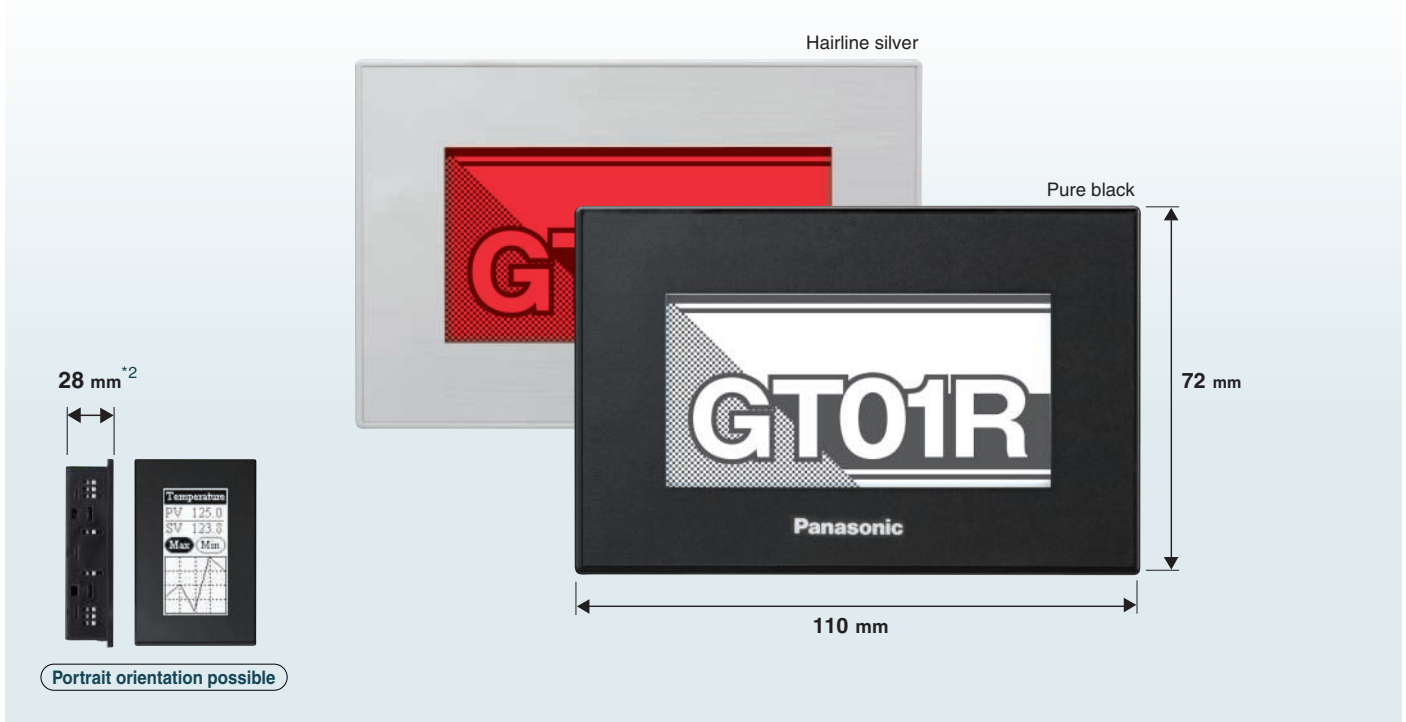
High-contrast clear display achieved by the red and white backlight

■ Screens can be displayed in white, red, or pink. Under normal conditions, the high-brightness white LED provides outstanding visibility.
The red LED allows you to check the status of abnormal conditions at a glance.
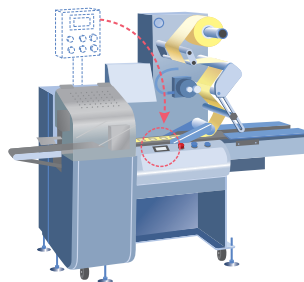
100% brighter
(than our conventional model) *6

Normal (White)

Emergency (Red)

(Pink)

■ Can be mounted in small spaces.

The ultra-thin body with a depth of only 24 mm *2 fits in any space.

Can be mounted in any small space. The space saving control panel contributes to total cost reduction.

Only one cable is required to connect your GT directly to our FP series or Mitsubishi Electric FX series, substantially reducing the man-hours for wiring.
(5 V DC type)

Only one cable is required because power is supplied through the TOOL port of the PLC.

*1: CE marking is not available to AIGT0032B1(H1), AIGT0232B1(H1).
*2: When the panel thickness is 5 mm, the screw head of the mounting bracket protrudes 4 mm.
*3: Refers to and displays external clock data. (Not provided with a built-in clock function.)
• The panel face protection sheet for GT01/GT01R is available as an option.

*4: Compared with GT10.
*5: Compared with our products. Not guaranteed in all cases.
*6: Compared with GT01 White LED backlight.

• For other features, please refer to GT01/GT01R/GT11 Common Features.

* For precautions for connection, please refer to "Connecting and Communicating with the PLCs" in GT Series Technical Manual, which can be downloaded from our website. (User registration is required.)

GT11
Compact Programmable Display

4 inch monochrome	3-color/ white backlight (green/orange/red)/ white	24 chars. ×9 lines	240×96 dots	Free switch layout (8×8 dots min.)	RS232C/ RS422 (RS485)	Through function	24V DC

The upgraded 4-inch wide screen provides clearer images with higher visibility.

Ash gray

Black

30 mm*2

72 mm

144 mm

GT11

Portrait orientation possible
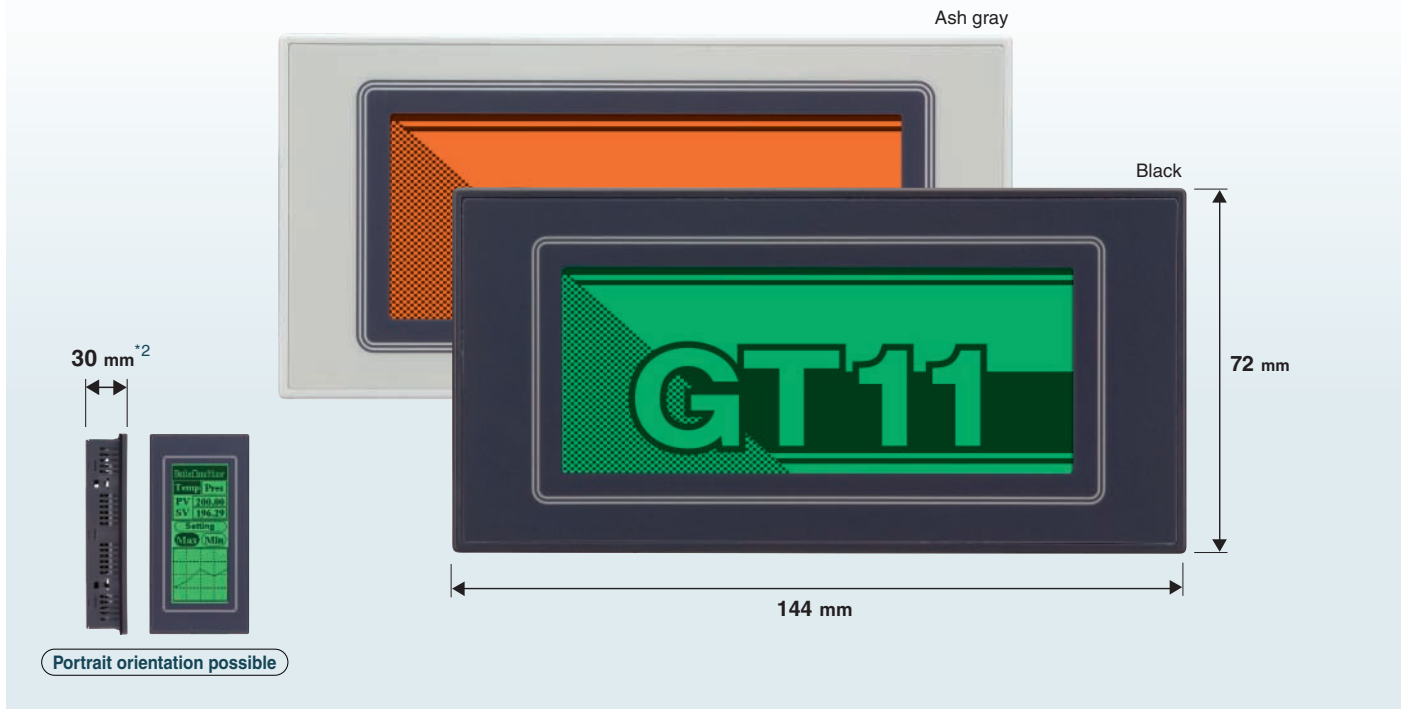
4-inch wide screen high-definition LCD

■The 4-inch wide screen consists of a high-definition LCD, which increases the information capacity.

Conventional model (GT10)

160 dots

64 dots

Emergency Stop
Safty Cover is open, Safty Light Curtain detected something, or Emergency Stop button(s) were pressed!
Next

(Enlarged view)

GT11

96 dots

240 dots

● Higher visibility

Emergency Stop Help
Safty Cover is open, Safty Light Curtain detected something, or Emergency Stop button(s) were pressed!
Next

(Enlarged view)

● Approx. doubled information capacity

Emergency Stop Help
Safty Cover is open, Safty Light Curtain detected something, or Emergency Stop button(s) were pressed!
Check and clear error source, so press CHECK button.
Check

Resolution: 225%
240×96 dots
(Compared with our conventional model)*3

■The highly visible three-color backlight shows the equipment status and enhances the equipment style.

The bright and easy-to-read LCD indicates messages, graphics, switches, lamps, PLC data, graphs, clocks*4, and others in any layout you want. In addition, three backlight colors can be selected according to the equipment status. This allows you to identify the status at a glance.

70% brighter
(than our conventional model)*3

Normal (Green)

In operation (Orange)

Emergency (Red)

3-color LED Backlight

White LED Backlight
*Unit does not have a red LED.

■**Mountable in tight places**
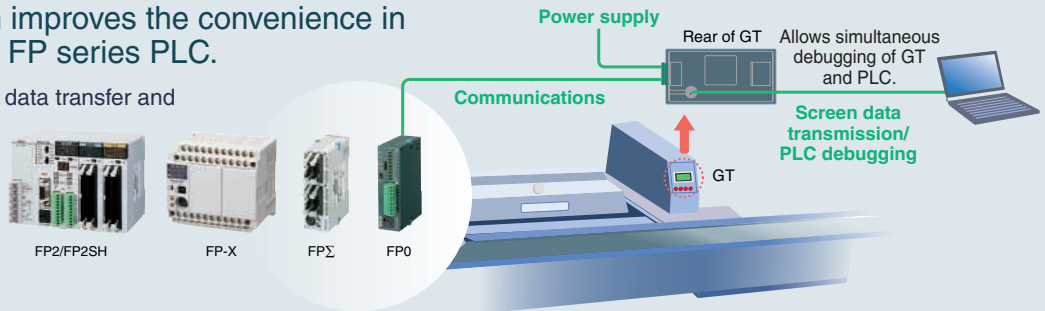Costs can be reduced by using this model instead of a mid-size display.

■**Compatible with our conventional GT10 model**
Exchangeable since the panel cut dimensions are identical, and screen data exchange is also possible. *5

Simple connection and maintenance

■ **The through function improves the convenience in combination with our FP series PLC.**

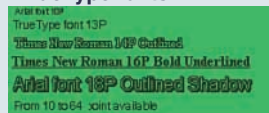Simultaneous operation of GT data transfer and PLC debugging will be available by connecting your GT to a personal computer and our FP series PLC.

Power supply

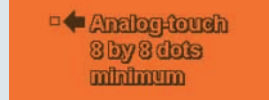Rear of GT — Allows simultaneous debugging of GT and PLC.

Communications

Screen data transmission/ PLC debugging

FP2/FP2SH   FP-X   FPΣ   FP0   GT

Great diversity and variety of use

■ **A wide variety of display functions improve the workability for operators.**

"TrueType fonts"

Arial font 10P
TrueType font 13P
Times New Roman 14P Outlined
Times New Roman 16P Bold Underlined
Arial font 18P Outlined Shadow
From 10 to 64 point available

The use of a TrueType font allows GT11 to display up to 216 characters (24 wide x 9 high), GT01/GT01R to display up to 72 characters (12 wide x 6 high), improving the efficiency of use of the panel space.

"Analog-touch design"

□ ← Analog-touch 8 by 8 dots minimum

You can freely position switches as small as 8 x 8 dots.

"Graph function"

Bar graph   Line graph

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

"Recipe function"

Parameter Set
Product A
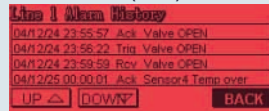Product B   X   13.560
Product C   Y   203.723
Type in   Z   178.228

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

"Flow Display function"

Line Monitor   Setting Menu
Plan   2500   L1 L2 L3
Actual   1758
✱✱✱ Refill L3 parts feeder wit

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

"Alarm list" (GT11)

Line 1 Alarm History
04/12/24 23:55:57 Ack Valve OPEN
04/12/24 23:56:22 Trig Valve OPEN
04/12/24 23:59:59 Rcv Valve OPEN
04/12/25 00:00:01 Ack Sensor4 Temp over
UP △   DOWN ▽   BACK

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

"Write Device function"

□ ← DT100 : Bit ON

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

■ **The language switching function facilitates PLC programming and screen switching.**

Conventionally, screens were created for each language. With this new language switching function, data can be entered in all available languages for each part. The same screens can be created all at once, and ladder diagram creation is also easier. The character table (below picture) for switching the language display can be edited in Excel and imported.

■ **Available languages**

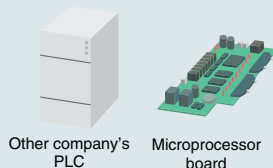| Japanese | English | German | French | Spanish |
| Simplified Chinese | Traditional Chinese | Korean | Turkish | Italian |

If your operating system is Windows 2000 or XP, the above languages can be displayed on one screen at a time. With other operating systems, the screen creation tool "Terminal GTWIN English Version" is required, and the operating system's language must be the one you want to display.

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

■ **There are two types of communication [RS232C/ RS422 (RS485)]. Connection with PLCs of a variety of manufacturers is possible.**

(Please refer to the compatible PLC list.)

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

Other company's PLC   Microprocessor board

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

■ **The high environmental resistance is IP65-rated.**

■ **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.

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

■ **The use of high-brightness LEDs eliminated backlight replacement work.**

*1: UL/cUL is not available to white LED backlight type.
*2: When the panel thickness is 5 mm, the screw head of the mounting bracket protrudes 4 mm.
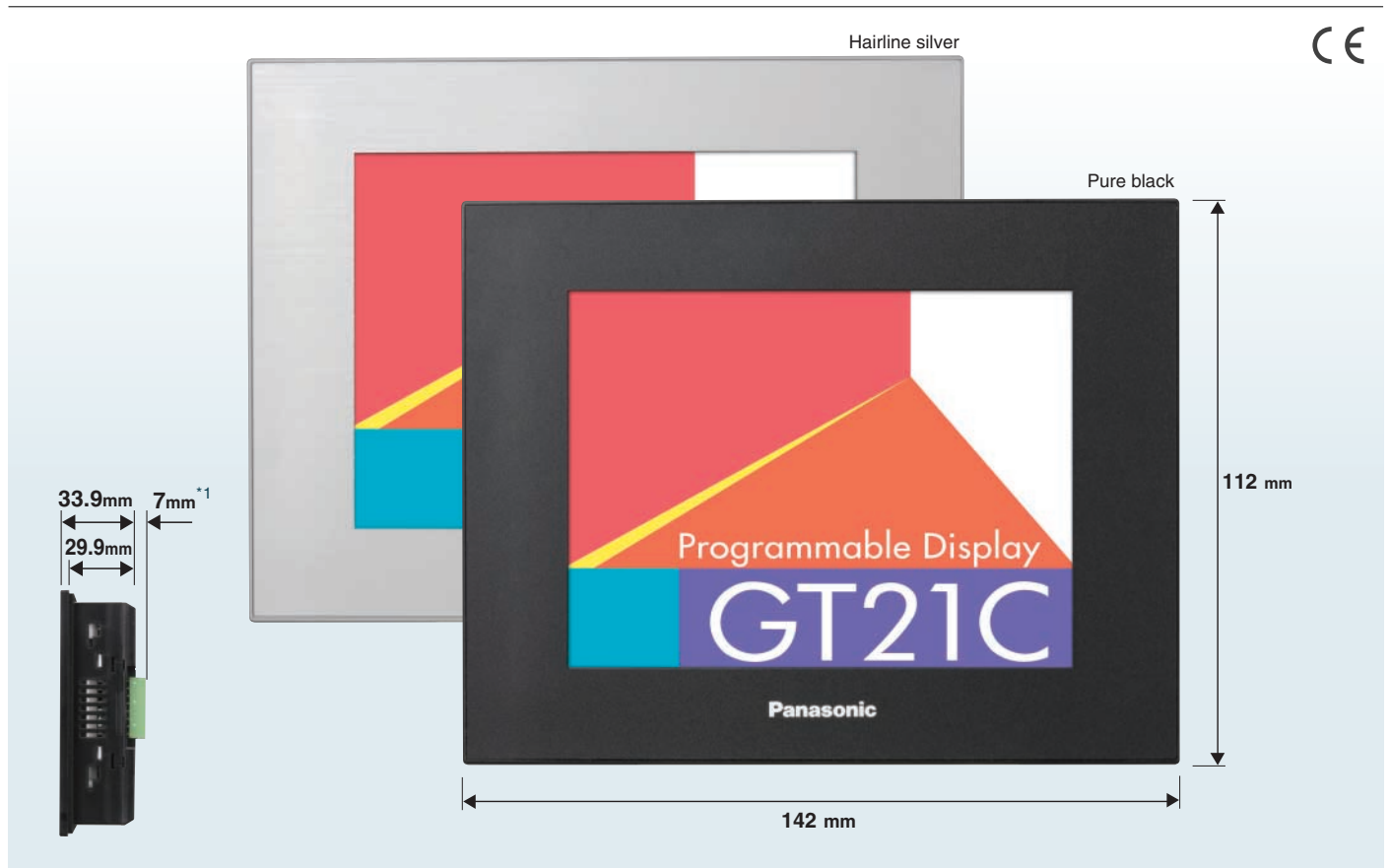*3: Compared with GT10.
*4: To use the internal clock function, buy a commercially available battery (CR2032).
*5: The mounting bracket and connector shape are different. When converting the screen data, the font size will not be automatically converted.
• The panel face protection sheet for GT11 is available as an option.

5-inch color	STN 256 colors	White LED backlight	32 chars. ×24 lines	320×240 dots	Free switch layout (8×8 dots min.)	RS232C/ RS422 (RS485)	Through function	24V DC

The 5-inch STN 256-color touch panel displays clear and beautiful images.

Hairline silver

Pure black

CE

33.9mm 7mm *1
29.9mm

112 mm

Programmable Display
GT21C
Panasonic

142 mm

Beautiful

■Beautiful images, Top quality images in small-sized panels

The new 3D-design buttons provide higher visibility and operability.

5-inch STN 256 colors QVGA

The image quality is equivalent to the 6-inch type display, which it can replace.

■Cool and sophisticated body design

• The cool design fits a variety of installation locations without spoiling the design of the target equipment.
• The projection from the target equipment surface is as low as 4 mm, allowing for a beautiful finish.
• The total depth is the industry's lowest at 29.9 mm (excluding the projection).

4 mm
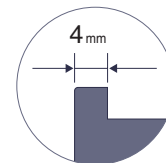
Simple

■High operability achieved by the customizable screen layout

• The analog-touch design allows you to freely adjust the screen layout in increments of one dot. You can also freely choose
• TrueType font character sizes and arrangement

64Point
TrueType 10 Point
SW1

Point

Move in increments of one dot
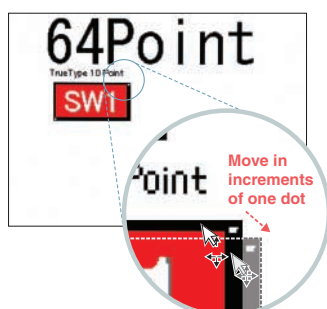
Useful

■Maintenance-free white LED backlight

• The use of the white LED backlight eliminated backlight replacement work.

■Environmentally friendly lower power consumption design

• Lower power consumption of 4.8 W or less: Approx. 50% of our conventional model (GT30)

Simple connection and maintenance

■ **The through function improves the convenience in combination with our FP series PLC.**

Simultaneous operation of GT data transfer and PLC debugging will be available by connecting your GT to a personal computer and our FP series PLC.

Power supply

Communications

Rear of GT21C

Allows simultaneous debugging of GT and PLC.

Screen data transmission/ PLC debugging

GT21C

FP2/FP2SH   FP-X   FPΣ   FP0
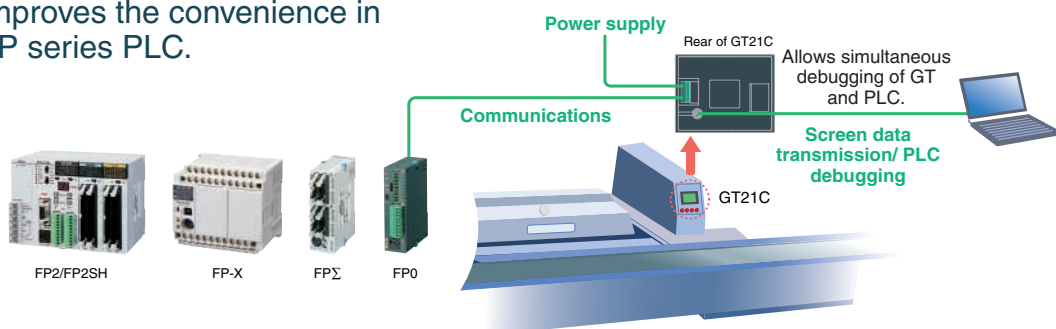
Great diversity and variety of use

■ **The 5-inch screen provides a wide variety of display functions that improve the workability for operators.**

"TrueType fonts"

With the TrueType fonts, the screen can display up to 768 characters at a time (32 chars. x 24 lines) and therefore be used effectively.

"Analog-touch design"
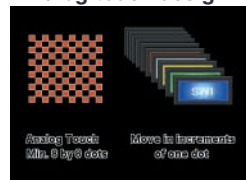
You can freely position switches as small as 8 x 8 dots.
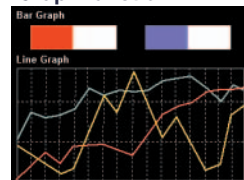
"Graph function"

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

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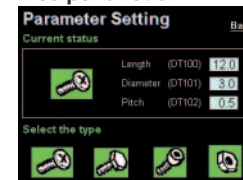
Settings by product item and other data (up to 3,600 words) can be transferred to PLC, simplifying PLC programming.

"Flow Display function"

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

"Alarm list"

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

"Write Device function"

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

■ **The language switching function facilitates PLC programming and screen switching.**

Conventionally, screens were created for each language. With this new language switching function, data can be entered in all available languages for each part. The same screens can be created all at once, and ladder diagram creation is also easier. The character table (below picture) for switching the language display can be edited in Excel and imported.

■Available languages

| Japanese | English | German | French | Spanish |
| Simplified Chinese | Traditional Chinese | Korean | Turkish | Italian |

If your operating system is Windows 2000 or XP, the above languages can be displayed on one screen at a time. With other operating systems, the screen creation tool "Terminal GTWIN English Version" is required, and the operating system's language must be the one you want to display.

		Japanese	English	Simplified Chinese	Traditional Chinese	Korean
000	SW0	日本語	English	简体中国语	繁體中國語	한국어
000	SW0	ありがとうございました	Thank you	热烈欢迎	請多指教	안녕하시
000	SW1	1	1	1	1	1
000	SW1	2	2	2	2	2

■ **There are two types of communication [RS232C/ RS422 (RS485)]. Connection with PLCs of a variety of manufacturers is possible.**

(Please refer to the compatible PLC list.)

The 24-V RS422 type can be connected at a maximum distance of 500m.

■ **The high environmental resistance is IP65-rated.**

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

*1: Note that the COM port connector projects 7 mm. Also take the cable diameter into account.

• The panel face protection sheet for GT21C is available as an option.
• To use the internal clock function, buy a commercially available battery (CR2032).

GT32M

Programmable Display

| 6-inch monochrome | 2 colors (white/blue) | CFL backlight | 32 chars. ×24 lines | 320×240 dots | Free switch layout (8×8 dots min.) | RS232C/RS422 (RS485) | USB | SD | Through function | 24V DC |

Clear and beautiful display achieved by the high-definition long-life CFL backlight

Backlight life 1.5 times (75,000 hours) (Compared with our conventional model)[1]

Hairline silver

Pure black

128.8 mm

39.1 mm 2.6 mm

163.2 mm

The industry's smallest size in the 5-inch class, and 39.1-mm thin and cool body design (GT32M/GT32T)

■ Large display with space-saving outer dimensions of 163.2 x 128.8 x 39.1 mm

SD memory card slot as standard equipment (1 GB max) (GT32M/GT32T)

■ Easy to copy screen data. Also serves as storage for output sound files.

Slot for SD memory card

USB port

Ethernet port (GT32T1)

Sound output jack (GT32T1)

USB interface as standard equipment (GT32M/GT32T)

■ You can connect your PC and GT32 using your USB cable[2] to transfer screen data.

Also supports the "through" function for our FP series PLC.
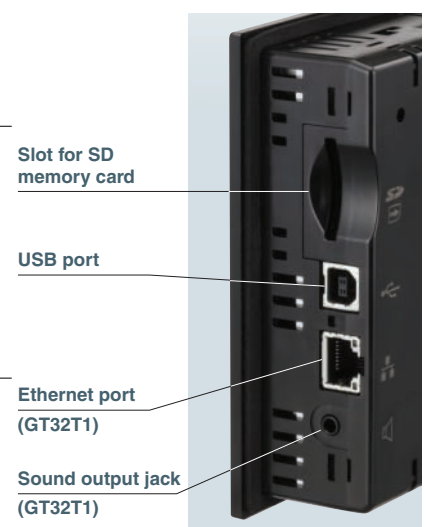
Transformer-isolated power supply (GT32M/GT32T)

■ The isolated power supply enhances the reliability.

*1: Compared with GT30.
*2: Please use a commercially available AB type USB cable.

• GTWIN Ver. 2.8 or later is required to use GT32.
• The GT32M cannot display gradations.

GT32T Programmable Display

More beautiful and expressive 4,096-color TFT LCD

4,096-color 256 times
(Compared with our conventional model)[1]

Hairline silver

Pure black

CE

39.1 mm   2.6 mm

128.8 mm

163.2 mm
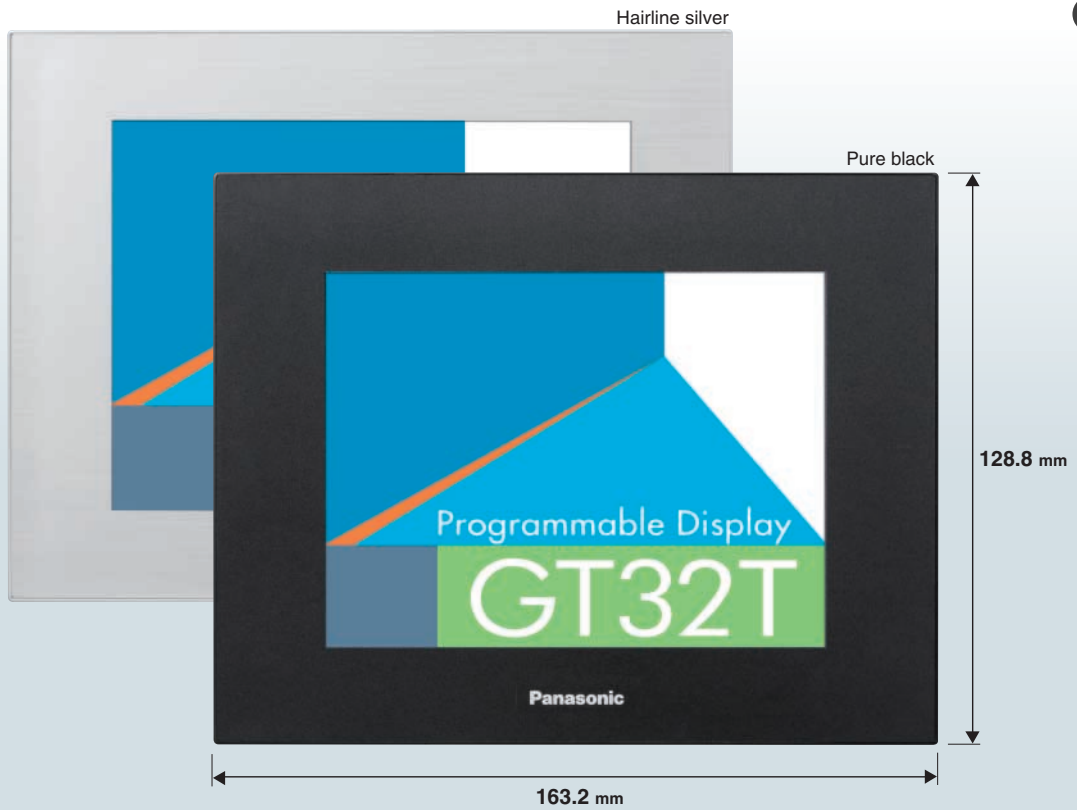
GT32T equipped with 4096-color TFT display and GT32M equipped with high-brightness long-life backlight

■ The TFT color type and monochrome type are available in the same size. GT32T0/GT32T1 is ideal for use with upscale equipment models or color-coded operation instructions. GT32M is ideal for equipment that needs to be simple, such as in-house equipment.

Sound output function (GT32T1)

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

Sound output jack

Speaker equipped with amplifier

ERROR OCCURRED!
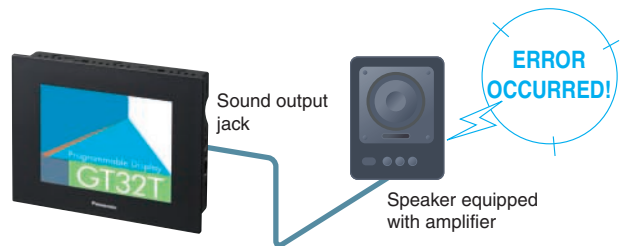
Ethernet connection (GT32T1)

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

GT32T1 supports Ethernet connection, which allows for program transfer to FP series and enables the monitor function. GT Memory Editor (attached to GTWIN) allows you to make alarm record data files and line graph data files, and edit internal memory.
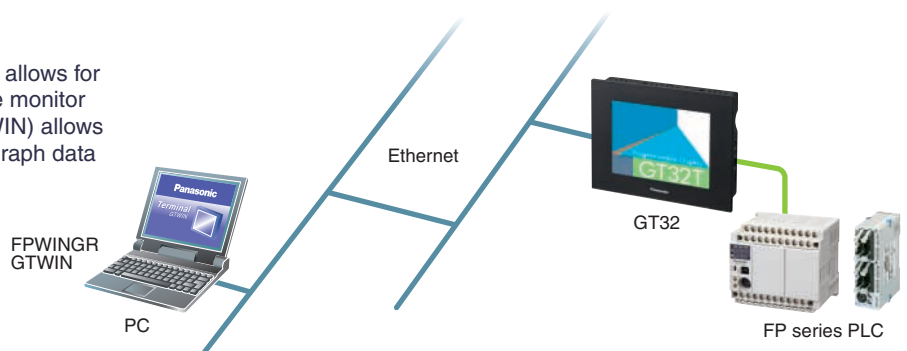
FPWINGR GTWIN

Ethernet

GT32

PC

FP series PLC

11

GT32M / GT32T   Common Features

Simple connection and maintenance

■ **The through function improves the convenience in combination with our FP series PLC.**

GT data transfer and PLC debugging can be simultaneously executed by connecting your PC and GT with an Ethernet/USB cable.

Screen data transmission/ PLC debugging
Rear of GT
Allows simultaneous debugging of GT and PLC.

Power supply

Communications

GT

FP2/FP2SH   FP-X   FPΣ   FP0

Great diversity and variety of use

■ **The 6-inch screen provides a wide variety of display functions that improve the workability for operators.**

"TrueType fonts"

With the TrueType fonts, the screen can display up to 768 characters at a time (32 chars. x 24 lines) and therefore be used effectively.

"Analog-touch design"

You can freely position switches as small as 8 x 8 dots.

"Graph function"

Bar Graph
Line Graph

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

"Recipe function"

Parameter Setting   Back
Current status
Length   (DT100)   120
Diameter (DT101)   3.0
Pitch   (DT102)   0.5
Select the type

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

"Flow Display function"

Operation Panel
C3 is now in automatic ope

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

"Alarm list"

LINE A2 Alarm History

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

"Write Device function"

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

■ **The language switching function facilitates PLC programming and screen switching.**

Conventionally, screens were created for each language. With this new language switching function, data can be entered in all available languages for each part. The same screens can be created all at once, and ladder diagram creation is also easier. The character table (below picture) for switching the language display can be edited in Excel and imported.

■ Available languages

| Japanese | English | German | French | Spanish |
| Simplified Chinese | Traditional Chinese | Korean | Turkish | Italian |

		Japanese	English	Simplified Chinese	Traditional Chinese	Korean
000	SW0	日本語	English	简体中国语	繁體中國語	한국어
000	SW0	ありがとうございました	Thank you	热烈欢迎	請多指教	안녕하ノ
000	SW1	1	1	1	1	1
000	SW1	2	2	2	2	2

■ **There are two types of communication [RS232C/RS422 (RS485)]. Connection with PLCs of a variety of manufacturers is possible.** (Please refer to the compatible PLC list.)

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

• The panel face protection sheet for GT32 is available as an option.
• To use the internal clock function, buy the dedicated battery (AFPX-BATT).

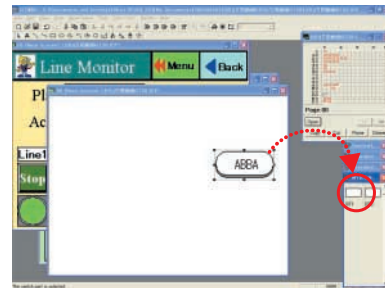**The user-friendly interface makes screen creation easier.**

■Multilingual menu screen

The menu can be indicated in Japanese/English/simplified Chinese/German/Italian/Spanish.
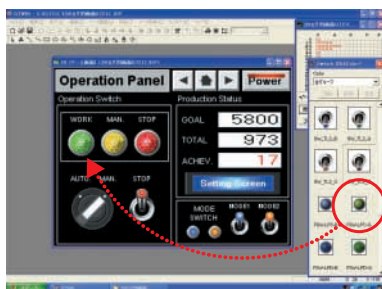

■Just drag and drop your original parts to be registered.

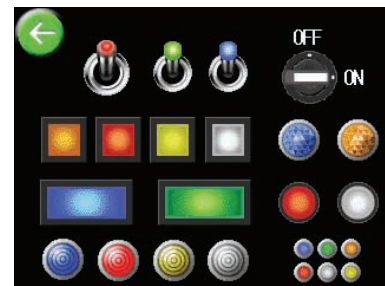You can also register your preset original parts easily by drag-and-drop operations.

■Simply drag and drop parts.

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

■256-color 3D buttons (for GT21C/GT32T)

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

■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.
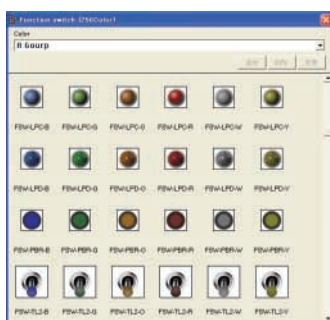
■Screen copy in bitmap form

You can output screen images in bitmap form and use them in off-the-shelf applications. This is useful for preparing equipment operation manuals.
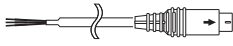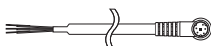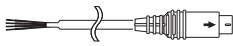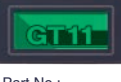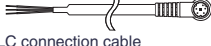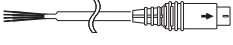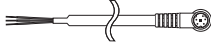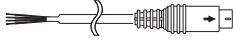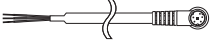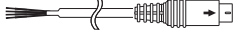
■Firmware upgrading function (GT01/GT11/GT21C/GT32)

Before transferring screen data, tick "Automatic firmware update" to automatically upgrade the display if the display version is older than the firmware version in GTWIN.
You can keep the firmware version upgraded by using the latest version of GTWIN.
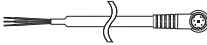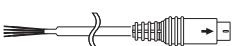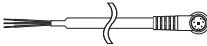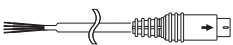
• GTWIN Ver. 2.8 is not compatible with Windows® 95, 98, Me or NT. For details, please contact our sales office.

You can download a trial version of GTWIN Ver. 2 from Automation Controls Business Unit Website.
(Login as Web Members is required.)

Model	Rated voltage	Communication port	Part No.				PLC connection cable
			GT01 Black	**GT01R** Pure black	**GT01** Ash gray	**GT01R** Hairline silver	
GT01 (green/ orange/red)/ **GT01R** (white/red/ pink)	5V DC	RS232C	Part No.: **AIGT0030B1**	Part No.: **AIGT0230B1**	Part No.: **AIGT0030H1**	Part No.: **AIGT0230H1**	 Cable (2 m) for direct connection to the TOOL port of our PLC 5-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8142** Note: This cable is for GT01/GT01R, and power is supplied through the TOOL port.
		RS422 (RS485)	Part No.: **AIGT0032B1**	Part No.: **AIGT0232B1**	Part No.: **AIGT0032H1**	Part No.: **AIGT0232H1**	 Cable (2 m) for direct connection to the Mitsubishi Electric FX Series 8-pin mini-DIN connector — 6 single wires + Shielding wire Part No.: **AIGT8152** Note: This cable is for GT01/GT01R, and power is supplied through the TOOL port.
	24V DC	RS232C	Part No.: **AIGT0030B**	Part No.: **AIGT0230B**	Part No.: **AIGT0030H**	Part No.: **AIGT0230H**	 PLC connection cable 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** (2 m) AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIGT0032B**	Part No.: **AIGT0232B**	Part No.: **AIGT0032H**	Part No.: **AIGT0232H**	 PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**
GT11 (green/ orange/red)/ (white)	24V DC	RS232C	Part No.: **AIGT2030B**	Part No.: **AIGT2130B**	Part No.: **AIGT2030H**	Part No.: **AIGT2130H**	 PLC connection cable 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** (2 m) AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIGT2032B**	Part No.: **AIGT2132B**	Part No.: **AIGT2032H**	Part No.: **AIGT2132H**	 PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**
GT21C (STN color)	24V DC	RS232C	Pure black Part No.: **AIGT2230B**		Hairline silver Part No.: **AIGT2230H**		 PLC connection cable (2 m) 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIGT2232B**		Part No.: **AIGT2232H**		 PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**
GT32M (STN monochrome)	24V DC	RS232C	Pure black Part No.: **AIG32MQ02D**		Hairline silver Part No.: **AIG32MQ03D**		 PLC connection cable (2 m) 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIG32MQ04D**		Part No.: **AIG32MQ05D**		 PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**

For connection, refer to the GT Series Technical Manual.

Model	Rated voltage	Communication port	Part No.		PLC connection cable
			Pure black	Silver	
GT32T0 (TFT color)	24V DC	RS232C	Part No.: **AIG32TQ02D**	Part No.: **AIG32TQ03D**	PLC connection cable (2 m) 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIG32TQ04D**	Part No.: **AIG32TQ05D**	PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**
GT32T1 (TFT color) Ethernet and sound output function supported		RS232C	Part No.: **AIG32TQ12D**	Part No.: **AIG32TQ13D**	PLC connection cable (2 m) 5-pin mini-DIN connector — 3 single wires + Shielding wire Part No.: **AIGT8162** AIGT8165 (5 m) and AIGT8160 (10 m) are also available.
		RS422 (RS485)	Part No.: **AIG32TQ14D**	Part No.: **AIG32TQ15D**	PLC connection cable (5 m) 8-pin mini-DIN connector — 4 single wires + Shielding wire Part No.: **AIGT8175**

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**

Terminal GTWIN Ver.2

English Version Tool Kit includes:
GTWIN CD-ROM
GT Series Technical Manual (English Version)
Part No.: **AIGT8001V2**

Upgrade Version (English)
Upgrades Terminal GTWIN Ver. 1 to Ver. 2.
Part No.: **AIGT8001V2R**

* Menus can be displayed in Japanese, English, Simplified Chinese, German, Italian, and Spanish.
• GTWIN Ver. 2.8 is not compatible with Windows® 95, 98, Me or NT. For details, please contact our sales office.

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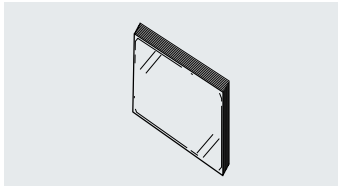
■Panel face protection sheets
10 sheets in a set (option)

GT01	Part No.:	**AIGT080**
GT01R	Part No.:	**AIGT080R**
GT11	Part No.:	**AIGT280**
GT21	Part No.:	**AIGT28021**
GT32	Part No.:	**AIG32800**
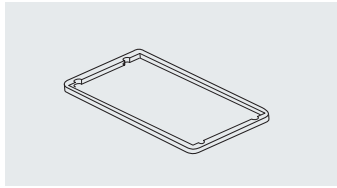
■Waterproof packing
Waterproof packing (for replacement), 10 pieces in a set
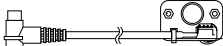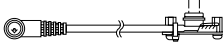Package includes one set. One set is installed on main unit.

GT01, GT01R	Part No.:	**AIGT081**
GT11	Part No.:	**AIGT281**
GT21	Part No.:	**AIGT28121**
GT32	Part No.:	**AIG32810**
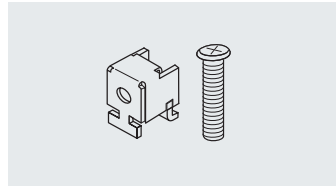
■GT01/GT01R/GT11 mounting parts
5 sets of mounting parts (4 parts/set)
Package includes one set.

Part No.:	**AIGT083**

■GT21C/GT32 mounting parts
5 sets of GT21C/GT32 mounting parts (2 parts/set)
Package includes one set.
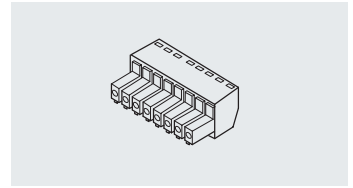
Part No.:	**AIGT28321**

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

Part No.:	**AIGT084**
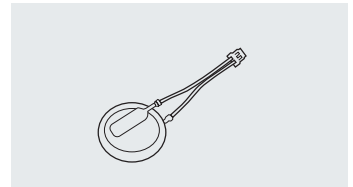
■GT32 backup battery
* For GT11 and GT21C, please purchase a commercially available CR2032 battery.

Part No.:	**AFPX-BATT**

Connection examples

1. Connection with FPΣ/FP0

GT01 5V, RS232C type

PLC connection cable
AIGT8142

FPΣ   FP0   FP-X
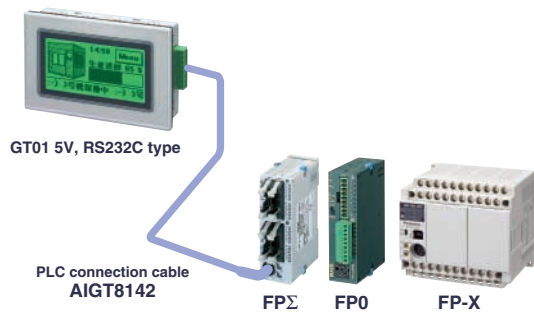
2. Distant connection with FPΣ

24V DC

RS422 24V type

500m max

FPΣ + Communication
cassette (RS485)
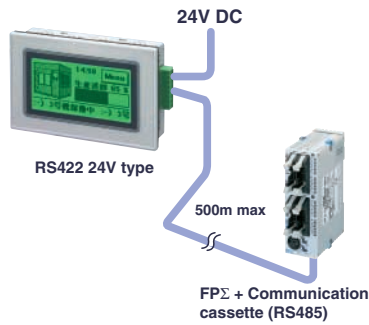
3. Connection with Mitsubishi Electric FX Series

GT01 5V, RS422 type

PLC connection cable
AIGT8152

Mitsubishi Electric FX Series
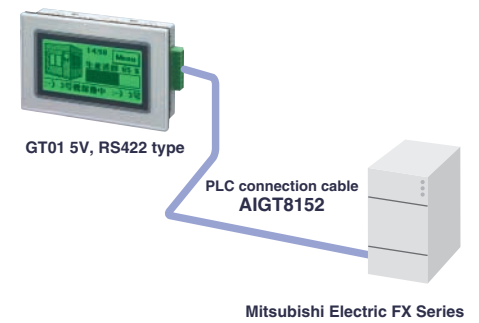
PLC Compatibility
Models listed are the models that have been evaluated as of November, 2006.

Company	Series	Model	GT01/GT01R/GT11/GT21/GT32 RS232C type	GT01/GT01R/GT11/GT21/GT32 RS422 (RS485) type*2
Matsushita Electric Works	FP series	FP-X	◎	○
		FP-Σ	◎	○
		FP-e	◎	○
		FP0	◎	○
		FP2	◎	○
		FP2SH	◎	○
Mitsubishi Electric*1	FX series	FX0N	○	◎
		FX1S	○	◎
		FX1N	○	◎
		FX1NC	○	◎
		FX2N	○	◎
		FX2NC	○	◎
		FX3UC	○	◎
	Q series	Q00CPU	◎	
		Q01CPU	◎	
		Q00JCPU	○	
		Q01CPU	○	
		Q00HCPU	○	
		Q25HCPU	○	
		Q12HCPU	○	
		Q06HCPU	○	
		Q02HCPU	○	
		Q02CPU	○	
	A series	A1N	○	
		A2N	○	
		A3N	○	
		A1S	○	
		A1SJ	○	
		A2SH	○	
		A1SH	○	
		A2CCPU24	◎	
Omron*1	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	◎	
	α series	C200HX-CPU85-Z	○	
		C200HX-CPU64	○	
		C200HX-CPU44	○	
		C200HE-CPU42	○	
		C200HG-CPU63	○	
		C200HG-CPU43	○	
		C200HE-CPU42-Z	◎	
		C200HX-CPU64-Z	○	

Company	Series	Model	GT01/GT01R/GT11/GT21/GT32 RS232C type	GT01/GT01R/GT11/GT21/GT32 RS422 (RS485) type*2
Omron*1	CV series	CV500	◎	
		CV1000	◎	
		CVM1	◎	
	CS1 series	CS1H-CPU67	◎	
		S1H-CPU66	◎	
		CS1H-CPU65	◎	
		CS1H-CPU64	◎	
		CS1H-CPU63	◎	
		CS1G-CPU45	◎	
		CS1G-CPU44	◎	
		CS1G-CPU43	◎	
		CS1G-CPU42	◎	
	CJ1 series	CJ1H	◎	
		CJ1M	◎	
		CJ1G	◎	
	CP1 series	CP1H	○	
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	◎	
		KV-700	◎	○
		KV-1000	◎	○
ALLEN-BRADLEY*1 Models that support DF protocol	MicroLogix series	MicroLogix1000	◎	
	SLC-5 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*1	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.

For details about devices and addresses that can be used, please refer to the GT Series Technical Manual "Connecting and Communicating with the PLCs". This manual can be downloaded from our site at http://www.mew.co.jp/ac/e/. (User registration is required before you can download.)

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Specifications

Item	GT01 / GT01R 5V/RS232C	5V/RS422	24V/RS232C	24V/RS422	GT11 RS232C	RS422	GT21C RS232C	RS422	GT32M RS232C	RS422	GT32T0 RS232C	RS422	GT32T1 RS232C	RS422
Rated voltage	5 V DC				24 V DC									
Operating voltage range	4.5 to 5.5 V DC				21.6 to 26.4 V DC									
Power consumption	1W max.	1.1W max.	2W max.		2.4W max.		4.8W max.		10W max.				12W max.	
Power supply unit isolation method	—								Transformer isolation					
Ambient temperature	0 to 50°C				0 to 50°C		0 to 50°C*1		0 to 50°C*2					
Ambient humidity	20 to 85% RH (No dew condensation)													
Storage temperature	−20 to 60°C													
Storage humidity	10 to 85% RH (No dew condensation)													
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/s² 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) *AIGT0030B1/AIGT0030H1: When the ferrite device supplied with our PLC connection cable (AIGT8142) is mounted													
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. 160 g				Approx. 230 g		Approx. 330 g		Approx. 500 g		Approx. 470 g		Approx. 480 g	
Display – Display device	STN monochrome LCD				STN monochrome LCD		STN color LCD		STN monochrome LCD		TFT color LCD			
Display – Resolution	128 (W) x 64 (H) dots				240 (W) x 96 (H) dots		320 (W) x 240 (H) dots							
Display – Display color	2 colors (black/white)				2 colors (black/white)		256 colors		2 colors (blue/white)		4,096 colors			
Display – Displayable area	70.38 (W) x 35.18 (H) mm				96.0 (W) x 38.4 (H) mm		98.0 (W) x 74.0 (H) mm		113.2 (W) x 86.4 (H) mm		110.8 (W) x 83.6 (H) mm			
Display – Backlight	GT01: 3-color LED (green, orange, red) GT01R: 3-color LED (white, red, pink) *No need for replacement				3-color LED (green, orange, red) /White LED *No need for replacement		White LED backlight *No need for replacement		CFL [Average life; GT32M: 75,000 hours (25°C), GT32T: 50,000 hours (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, 12, 14, 16, 24, 26, 28, 32, 36, 48, and 64 Windows (R): 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 48, and 64													
Functions – Languages	Japanese, English, Korean, German, French, Spanish, Italian, Simplified Chinese, Traditional Chinese, Turkish													
Functions – Graphics	Straight lines, continuous straight lines, squares, circles, ovals, arcs, elliptic arcs, fan shapes, elliptic fan shapes, beveled squares, bitmaps													
Functions – Number of screens	Approx. 160 screens*3				Approx. 250 screens*3				Approx. 240 screens (GT32M)*3		Approx. 180 screens (GT32T)*3			
Functions – Screen No. that can be set	Base screens: No. 0 to 3FF, Keyboard screens: No. 0 to 7													
Functions – Part functions	Messages, lamps, switches, data, bar graphs, clocks (*), keyboards, and line graphs				Messages, lamps, switches, data, bar graphs, clocks, keyboards, line graphs, and alarm list parts									
Functions – Other functions	Recipe, flow display, write device, and language switching				Recipe, flow display, write device, alarm record, alarm list, and language switching								Sound output *4	
Functions – Clock function	Refers to and displays external clock data. (Not provided with a built-in clock function.)				Provided with a built-in clock function. (Can also refer to and display a PLC clock.) *Buy a commercially available battery.									
Functions – Contrast adjustment	Contrast can be adjusted by using the touch panel.								Not adjustable					
Functions – Automatic communication settings	The communication conditions of dedicated software and PLC can be automatically set by connecting a cable.													
Functions – Debugging function	GT connected between a PC and PLC allows the PLC to be debugged without a direct connection with the PC.													
Functions – Screen creation	Dedicated software should be used. Applicable OS: Windows® 95 (OSR2 or later)/98/Me/2000/NT/XP								2000/XP					
Touch key resolution	Free layout (8 dots min)													
Touch key operation force	0.5 N max				0.5 N max		0.8 N max.							
Touch key life	1 million operations min													
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	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422
COM. Port – External communication conditions	Baud rate: 9,600/19,200/38,400/57,600/115,200 bps													
	Data bits: 7 or 8 bits Parity: None, Odd, Even Stop bits: 1 bit													
COM. Port – Protocol	Our FP series supported/General-purpose serial interface supported/Other companies' PLC supported (Refer to the compatible PLC list for manufacturers and models.)													
COM. Port – Connector	Connector terminal base (8 pins)													
Screen data transfer interface – Communication standard	Tool port (Conforms to RS232C)								USB1.1					
Screen data transfer interface – Communication conditions with personal computers	Baud rate: 9,600/19,200/115,200/230,400 bps*5 Data bits: 8 bits Parity: None, Odd, Even Stop bits: 1 bit								–					
Screen data transfer interface – Protocol	Our dedicated protocol													
Screen data transfer interface – Connector	5-pin mini-DIN								USB TYPE-B					
Screen data transfer interface – Ethernet port	–								–				Yes (100BASE-TX, 10BASE-T) *6, *7	

*1. 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.
*2. When the unit is being installed in a horizontal orientation, the usable range is 0 to +40°C.
*3. The number of screens that can be registered varies according to the registered contents.
*4. 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
*5. 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.
*6. The unit caries out serial communication data processing at 115.2kbits/s.
*7. Communications with external equipment (PLC) are not available.
*8. Simultaneous USB and Ethernet communications are not possible.

Conformance to the UL/cUL standards

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

Memory

Screen data and GTWIN configuration setting data

Item	GT01/GT01R	GT11	GT21C	GT32M	GT32T
User's memory	F-ROM	F-ROM	F-ROM	F-ROM	F-ROM
Memory capacity	384 Kbyte	1.375 Mbyte	6.5 Mbyte	2,048 Kbyte	10,176 Kbyte

Clock data, PLC device storage data (24 words max.) and Alarm record data

Item	GT01	GT11	GT21C	GT32M	GT32T
Memory	–	SRAM	SRAM	SRAM	
Memory backup	–	Lithium battery (replaceable) CR2032, commercially available *Not included. Buy it separately.		Lithium battery (replaceable) AFPX-BATT *Not included. Buy it separately.	

Dimensions

Unit: mm

GT01

When the panel thickness is 5 mm
Mounting panel

24 | 4
2 (Packing)
66
72
37.7 (Display)
74.5 (Display)
110
104
8
9.5
45

Panel cutout dimensions

$105.0+^1_0$
$67.0+^1_0$

Applicable panel thickness: 1.0 mm to 5.0 mm

GT01R

When the panel thickness is 5 mm
Mounting panel

24 | 4
2 (Packing)
66
72
37.7 (Display)
74.5 (Display)
110
104
8
9.5
45

Panel cutout dimensions

$105.0+^1_0$
$67.0+^1_0$

Applicable panel thickness: 1.0 mm to 5.0 mm

GT11

26 | 4
2 (Packing)
66
72
40.5 (Display)
100 (Display)
144

Panel cutout dimensions

$139.0+^1_0$
$67.0+^1_0$

Applicable panel thickness: 1.0 mm to 5.0 mm

GT21C

7 | 29.9 | 4
2 (Packing)
99 (Display)
112
74.4 (Display)
142
102
5.1
Mounting bracket
129

Panel cutout dimensions

$130+^1_0$
$103+^1_0$

Applicable panel thickness: 1.0 mm to 5.0 mm

GT32M/GT32T

39.1 | 2.6
111.9 (Display)
128.8
84.2 (Display)
163.2
150.2
118.8
OPEN
65.0

Panel cutout dimensions

$150.5+^1_0$
$119+^1_0$

Applicable panel thickness: 1.0 mm to 5.0 mm

* The above drawing shows GT32T1. GT32T0 and GT32M do not have an Ethernet port and sound output jack. The display area of GT32M is 116.2 x 87.4 mm.

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