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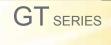
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Programmable Display







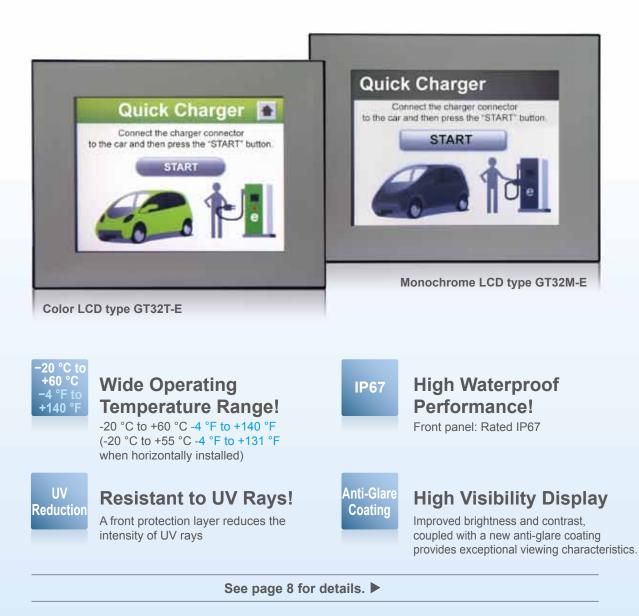
Enhanced Environmental Resistance

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



The LCD picture is simulated images.

Introducing the GT32-E Series with Excellent Environmental Resistance



New additions of the GT02 and GT12 lineups

GT02M: A black body type

GT02G: A silver body type

• GT12: A model without an SD memory card slot.

O: Available —: Not available

| | | | | | | | | | | | —: N | lot available |
|------------------------------|-----------------|-------------|-------------------|----------------|-----------------------|--|----------------------------------|--|---|-------------------------------|------------------------------|--|
| | | | Rated | | | | Display | | | | | cternal terface |
| | GTse | ries | voltage | Screen size | Display type | Display color | Resolution | Backlight | Displayable characters* ¹ | Memory capacity (F-ROM) | USB port | SD / SDHC memory card |
| Environ- mentally- | GT32M-E | P.8 | 24 V DC | 5.7 inch | TFT monochrome LCD | 2 colors (black / white) (16-gray scale) | 320(W) × 240(H) dots | White LED | 768 characters | 12 Mbyte | 0 | 0 |
| resistant Tough series | GT32T-E | P.8 | 24 V DC | 5.7 inch | TFT color LCD | 4,096 colors | 320(W) × 240(H) dots | White LED | 768 characters | 12 Mbyte | 0 | 0 |
| Entry-level model | GT02L | <u>P.10</u> | 5 V DC | 3.7 inch | STN monochrome LCD | 2 colors (black / white) | 160(W) × 64(H) dots | White LED | 96 characters | 704 kbyte | O (mini) | - |
| | GT02 GT02M | P.11 | 5 V DC 24 V DC | 3.8 inch | STN monochrome LCD | 2 colors (black / white) | 240(W) × 96(H) dots | GT02M: 3-color LED (white/pink/red) GT02G: 3-color LED (green/orange/red) | 216 characters | 2 Mbyte | O (mini) | O AIG02MQ2*D and AIG02GQ2*D only |
| | GT12 GT12G | P.12 | 24 V DC | 4.6 inch | STN monochrome LCD | 2 colors (black / white) (8-gray scale) | 320(W) × 120(H) dots | GT12M: 3-color LED (white/pink/red) GT12G: 3-color LED (green/orange/red) | 384 characters | 2 Mbyte | O (mini) | O AlG12MQ1*D and AlG12GQ1*D only |
| | GT05 | P.13 | | | | | GT05M/G | T05G | | | | |
| GT series | GT05M | GT05G | 24 V DC | 3.5 inch | STN monochrome LCD | 2 colors (black / white) | 320(W) × 240(H) dots | GT05M: 3-color LED (white/pink/red) GT05G: 3-color LED (green/orange/red) | 768 characters | 2 Mbyte | 0 | 0 |
| | GT05S | GT05S | 24 V DC | 3.5 inch | STN color LCD*2 | 4,096 colors | GT05: 320(W) × 240(H) dots | S White LED | 768 characters | 12 Mbyte | 0 | 0 |
| | GT32M | P.14 | 24 V DC | 5.7 inch | STN monochrome LCD | 2 colors (blue / white) | 320(W) × 240(H) dots | CFL | 768 characters | 2 Mbyte | 0 | 0 |
| | GT32T GT32T0 | P.15 | 24 V DC | 5.5 inch | TFT color LCD | 4,096 colors | 320(W) × 240(H) dots 2011. | CFL | 768 characters | 12 Mbyte | O GT32T Ethem sound | |

SD Solutions only Panasonic can provide

Links and expansion via SD

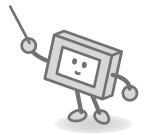
As small-size touch panels have significantly improved their image quality,

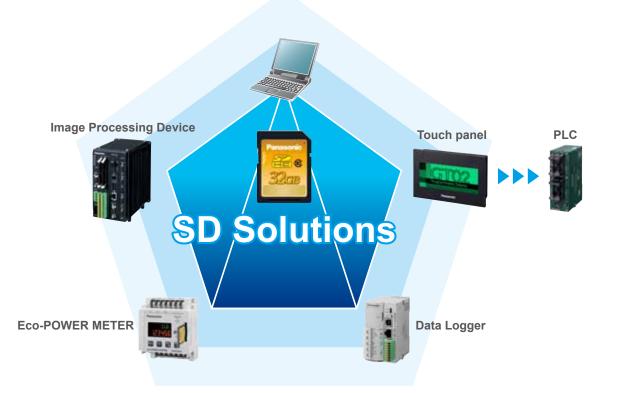
easy to read displays with sharp characters are no longer special features these days.

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

in various applications with PCs or other devices.

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





Links via SD

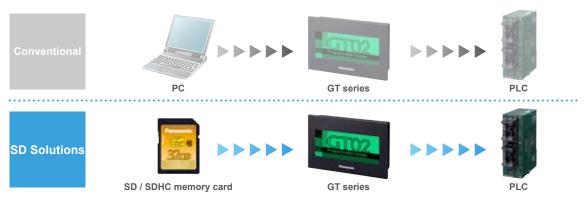
- ►► SD recipe function (Data table management)
- ▶▶ Transfer of PLC program data

Expansion via SD

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

PLC program transfer without the use of a PC

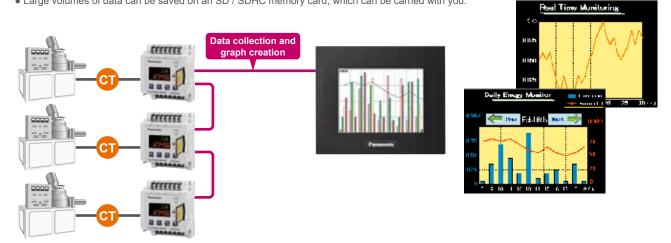
It is possible to modify PLC ladder programs as well as the GT screen programs by using an SD / SDHC memory card. SD / SDHC memory card enables everyone to easily modify programs.



SD logging function to produce data "Visualization"

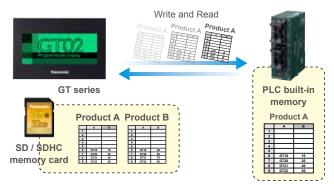
Capable of automatically collecting electrical power readings of Eco-POWER METERS and displaying them in a real time graph, allowing users to take quick actions for solutions.

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



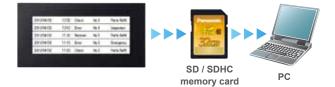
SD recipe function

For high-mix production, recipe data up to 64 types and 4,096 devices in total, can be easily set on a PC. The created recipe data is saved on an SD / SDHC memory card, and the specified data can be written or read from a PLC.



Saving alarm history data on an SD / SDHC memory card

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



• The LCD images on this page are composites.

High Visibility and Excellent Operability

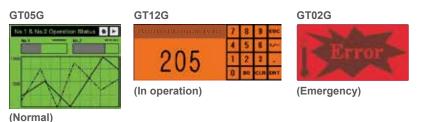


Three-color LED backlights allows for checking machine status at a glance (GT02M, GT02G, GT05M, GT05G, GT12M and GT12G)

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

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

* Except GT32M-E, GT32M and GT02L



Highly flexible screen design!

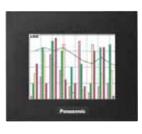
GT series displays use an analog-touch panel where locations of parts and characters can be adjusted in increments of one dot. The adoption of the Windows® font has widened the character size selection (10 to 240 dots), making the screen design more flexible. *The maximum size varies depending on the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

"Analog-touch design"



Graph function

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



Error warning by voice messages (GT32T1)

Voice messages or melodies immediately communicate the equipment status to operators not located near the equipment. The sound files are compatible with WAV format, which can be easily prepared by a PC.



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

The unit can display screens in portrait orientation and can therefore be installed in narrow spaces, expanding system design possibilities and contributing to size reduction. The portrait display is also ideal for slim equipment without enough space to install a display.



"TrueType fonts"



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



Flow display function

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



Multi-function switches

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

4,096-color parts libraries

(GT05S, GT32T and GT32T-E)

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



• The LCD images on this page are composites.

Advanced Functions to Enhance Work Efficiency



Newly equipped with an FP monitoring function

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

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

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

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

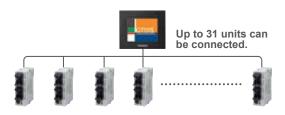
GT link function

Up to 32 GT displays can be connected to one PLC unit without communication programs. The same screen operation is possible at a conveyor line or other remote locations, and the number of PLC units can be reduced, cutting the production process costs.



Connectivity with multiple PLCs

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



Notes: 1) Our FP series PLC

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

Enhanced security with password protection

Password protection and operation security functions protect the data asset in the display unit and control the authorization for operation.

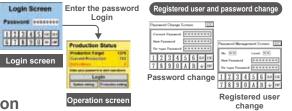
Password protection function

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



Operation security function

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



High-efficiency operation with through function

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

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



Easy-to-switch language

Conventionally, screens were created for each language. With this new language switching function, data can be registered in multiple languages (up to 16) for each part. The characters can be easily edited with Microsoft Excel[®] and then imported.

| | 5.3 | Japanése | English | Simplified Chinese | Traditional Chinese | Koreán |
|-----|------|-------------|----------|--------------------|---------------------|--------|
| 000 | SWO | 日本語 | English | 而这中国历 | 整体中间晶 | 한국어 |
| 000 | SW0 | ありがとうこさいました | Thankyou | 纳西欧迪 | 請多指教 | 안녕하네 |
| 000 | \$W1 | 1 | 1 | 1 | 1 | 1 |
| 000 | SW1 | 2 | 2 | 2 | 2 | 2 |

Write device function

This function modifies the PLC data or turns bits on/off according to the PLC status or the screen No. Now four arithmetic operations between devices are also possible.

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



Outdoor Use Made Possible by Significantly Improved Environmental Resistance and Visibility



GT32T-E

card

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

GT32M-E

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

Common features

Superior visibility even in sunlight

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

Wide range of operating temperature that covers outdoor use

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

UV Resistant, Anti-glare front panel

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

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

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

Built-in SD/SDHC memory card slot *1

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

Integrated USB Interface

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

Transformer-isolated power supply

The isolated power supply enhances the reliability.



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

39.1 mm

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

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

Tough series

Superior visibility even in sunlight

Color type





New model GT32T-E

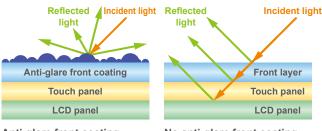
• High contrast LCD: Achieved higher contrast and visibility.

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

Conventional model GT32T

Anti-glare, High visibility display

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

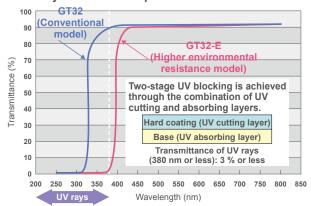


Anti-glare front coating

No anti-glare front coating

No risk of product deterioration due to UV exposure

- The front sheet is made of a material that does not transmit UV rays.
- A combination of a UV cutting layer and a UV absorbing layer performs two-stage UV blocking. The LCD and touch panel can be protected from deterioration.
- UV ray transmittance performance



Monochrome type



New model GT32M-E



Conventional model GT32M





New model GT32T-E

• The LCD pictures are screen captures of actual displays.

Conventional model GT32M

Excellent water resistance

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

Wide operating temperature range

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

Reduced power consumption

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

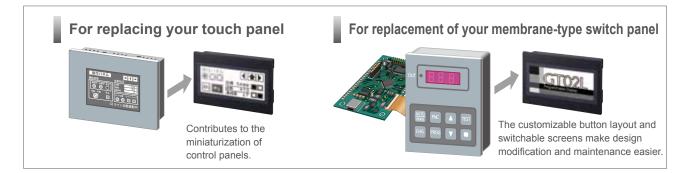


Entry-level Touch Panel

3.7 inch CE current of the second sec



Entry-level model



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

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

MiniUSB interface as standard equipment

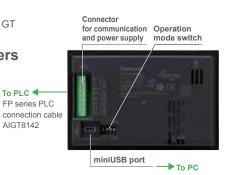
Supports the through function using a USB cable, allowing simultaneous debugging of PLC and GT

Flexible sizing and layout available for switches and characters

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

Portrait orientation ideal for narrow spaces

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



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

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

• The LCD images on this page are composites.

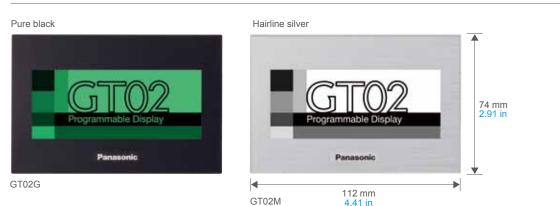


Compact Programmable Display

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

3.8 inch C € ₀ΨL us

GT series

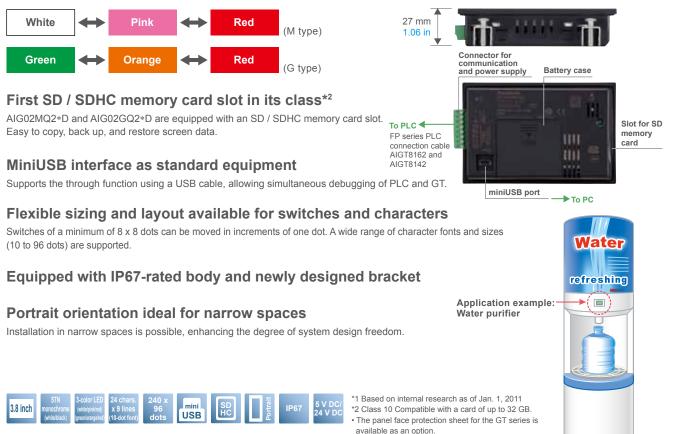


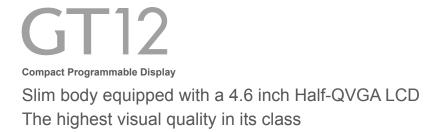
Largest 3.8 inch high-contrast monochrome LCD in its class provides top-level viewability*1.

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

Bright three-color LED backlight indicates the equipment status.

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





4.6 inch C € c^(U)L_{us}



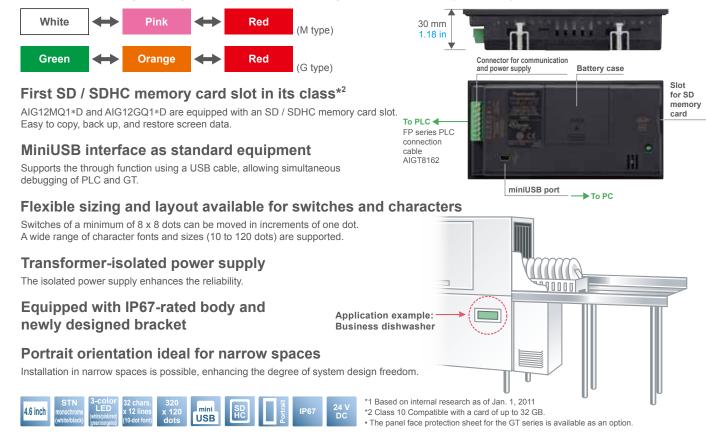
GT series

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

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

Bright three-color LED backlight indicates the equipment status.

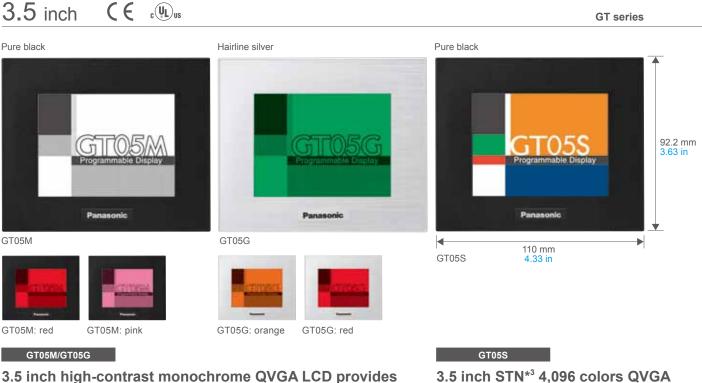
The color combination is green/orange/red or white/red/pink. The backlight ensures both operability and visibility.





Compact Programmable Display

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



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

Bright LED backlight adopted

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

Common features

SD / SDHC memory card slot as standard equipment*1

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

USB interface as standard equipment

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

Characters of a 240 dots maximum size can be displayed.

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

Transformer-isolated power supply

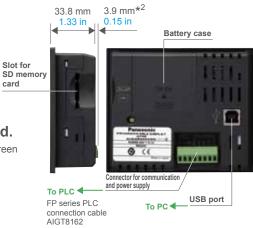
The isolated power supply enhances the reliability.



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

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

Bright LED backlight adopted



 *1 Class 10 Compatible with a card of up to 32 GB.
 *2 Note that the communication and power supply connector projects an additional 3.9 mm 0.15 in.

- Also take the cable diameter must be taken into account.
- *3 Display device of GT05S will be changed to TFT color LCD from production in December 2011.
- The panel face protection sheet for the GT series is available as an option.

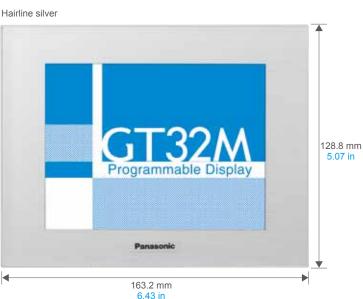


Programmable Display

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

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





Slot for SD memory card

To PC USB port

To PLC

AIGT8162

GT series

39.1 mm

1.54 in

Connector for communication and power supply

FP series PLC connection cable

5.2 mm

0.21 in

4

5.7 inch blue LCD equipped with 75,000 hours long life backlight Although the backlight is a CFL type, it can last as long as 75,000 hours *1, reducing maintenance

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

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

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

SD / SDHC memory card slot as standard equipment*3

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

USB interface as standard equipment

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

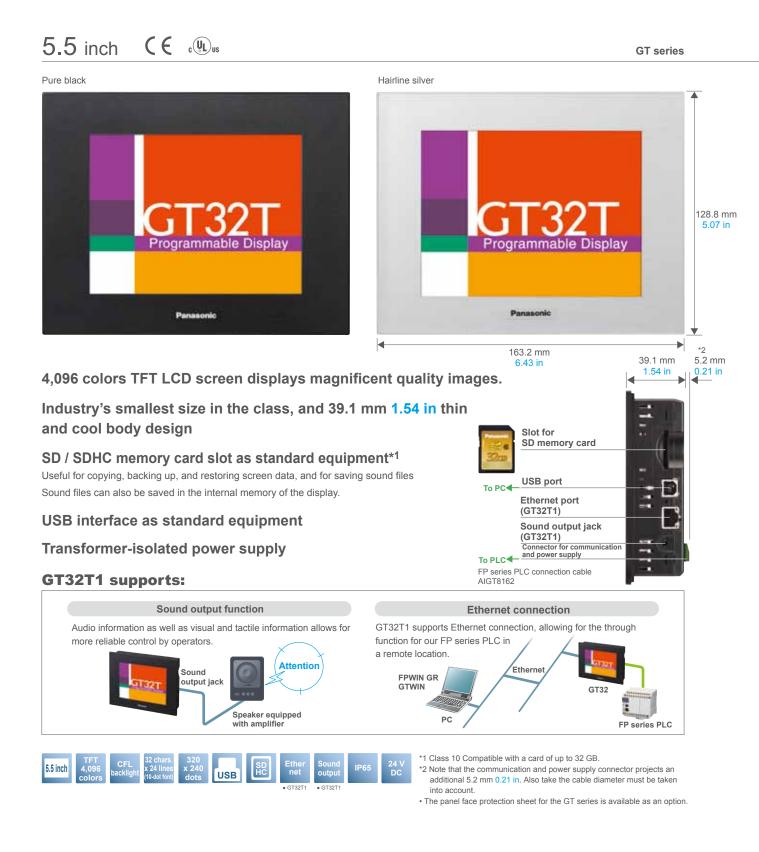
Transformer-isolated power supply

The isolated power supply enhances the reliability.



- *1 The backlight life varies depending on the environmental conditions of use, including the temperature, humidity, and operating voltage.
- *2 The backlight type for GT32M cannot be changed.
- *3 Class 10 Compatible with a card of up to 32 GB.
- *4 Note that the communication and power supply connector projects an additional 5.2 mm 0.21 in. Also take the cable diameter must be taken into account.
- The panel face protection sheet for the GT series is available as an option.





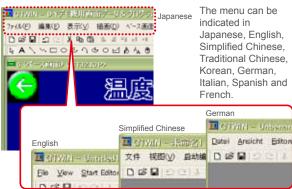
GTWIN Ver.2

Screen Creation Tool for the GT series User-friendly interface makes screen creation easier.



Compatible with Windows®7

Compatible with the nine languages for the menu



Simply drag-and-drop parts.



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

More user-friendly parts libraries



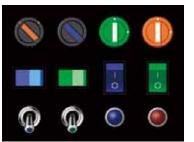
In the previous version, the required parts library had to be selected from the menu every time it was needed. The new version displays a list of parts libraries, making them more user-friendly. You can also freely set the parts library window size.

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



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

4,096 colors 3D design buttons (for GT05S, GT32T and GT32T-E)



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

Screen copy in bitmap form

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

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

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



* Windows[®]: The 64-bit version is not supported.

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

GTseries | PLC Compatibility Table

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

| | | | models that have been en GT02(L), GT0 | 5, GT12, GT32 |
|--------------------------------------|----------------------------------|------------------|--|-------------------|
| Company | Series | Model | RS232C | RS422/RS485 |
| | | | type | type*2 |
| | | CS1H-CPU67 | 0 | |
| | | CS1H-CPU66 | 0 | |
| | | CS1H-CPU65 | 0 | |
| | CS1 series | CS1H-CPU64 | 0 | |
| | Conselles | CS1H-CPU63 | 0 | |
| | | CS1G-CPU45 | 0 | |
| | | CS1G-CPU44 | 0 | |
| Omron*1 | | CS1G-CPU43 | 0 | |
| | | CS1G-CPU42 | 0 | |
| | | CJ1H | 0 | |
| | | CJ1M | 0 | |
| | CJ series | CJ1G | 0 | |
| | | CJ2H | 0 | |
| | | CP1H | 0 | |
| | CP1 series | CP1L | 0 | |
| | GI I Selles | | 0*4 | 0 |
| | | CP1E | | 0 |
| oshiba Machine*1 | TC mini series | | 0 | 0 |
| | | | Models with RS232 port | Models with RS485 |
| | | F3SP59-7S | 0 | |
| | | F3SP58-6S | 0 | |
| | | F3SP58-6H | 0 | |
| | | F3SP53-4S | 0 | |
| | | F3SP53-4H | 0 | |
| okonowo Electri - +1 | FA-M3 series | F3SP38-6S | 0 | |
| okogawa Electric*1 | FA-IVIS SELLES | F3SP38-6N | 0 | |
| | | F3SP35-5N | 0 | |
| | | F3SP28-3S | 0 | |
| | | F3SP28-3N | 0 | |
| | | F3SP25-2N | 0 | |
| | | F3SP21-0N | 0 | |
| | | KV-10/16/24/40 | 0 | |
| | | | | 0 |
| KEYENCE*1 | 10/ | KV700 | 0 | ~ |
| KETENCE" | KV series | KV1000 | 0 | 0 |
| | | KV3000 | 0 | 0 |
| | | KV5000 | 0 | 0 |
| | | EHV-CPU128 | 0 | 0 |
| | EH-150 EHV series | EHV-CPU64 | 0 | 0 |
| | | EHV-CPU32 | 0 | 0 |
| | | EHV-CPU16 | 0 | 0 |
| | | EH-CPU104A | 0 | 0 |
| | | EH-CPU208A | 0 | 0 |
| | EH150 series | EH-CPU316A | 0 | 0 |
| | | EH-CPU516 | 0 | 0 |
| Hitachi Industrial | | EH-CPU548 | 0 | 0 |
| Equipment | | 10-point | | ~ |
| Systems*1 | | 14-point | 0 | |
| | | 20-point | 0 | |
| | MICRO-EH series | 23-point | 0 | 0 |
| | Silon O-Lin Selles | | | 0 |
| | | 28-point | 0 | <u> </u> |
| | | 40-point | 0 | |
| | | 64-point | 0 | |
| | Web controller | 10-point | 0 | ~ |
| | | 23-point | 0 | 0 |
| | | MicroLogix500 | 0 | |
| Rockwell Automation* ¹ | MicroLogix series | MicroLogix1000 | 0 | |
| (Allen-Bradley) | | MicroLogix1100 | 0 | |
| Models that support protocol | SI O 500 | SLC-5/03 | 0 | |
| | SLC-500 series | SLC-5/04 | 0 | |
| | | CPU222 | 0 | 0 |
| | | CPU216 | Ŏ | 0 |
| Siemens*1 | S7-200 series | CPU215 | 0 | 0 |
| | 2. 222 00100 | CPU213 | 0 | 0 |
| | | CPU214 CPU212 | 0 | 0 |
| | | | | U U |
| | | 80S | 0 | |
| LS Industrial | MASTER-K series | 200S | 0 | |
| Systems*1 | | 300S | 0 | |
| | | 1000S | 0 | |
| | | | 0 | 0 |
| Modbus*1 | Models that support RTU protocol | *3 | | |

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

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

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

GTseries | Part Number List

Main Unit and Tool Software

| | | | Description | | | Part numbe |
|------------------------|--|--------------------|--|--|---|--|
| | LCD | Power supply | Communication port | Color of front panel | SD memory card slot | |
| GT32M-E (Tough Series) | TFT monochrome LCD | 24 V DC | RS232C | Silver | Available | AIG32MQ03I |
| , | | | RS422 / RS485 | | | AIG32MQ05E |
| GT32T-E (Tough Series) | TFT color LCD | 24 V DC | RS232C | Silver | Available | AIG32TQ03E |
| | | 21120 | RS422 / RS485 | | | AIG32TQ05E |
| GT02L | STN monochrome LCD | 5 V DC | RS232C | Black | Not available | AIG02LQ02I |
| GTUZE | (white backlight) | 3 4 6 6 | RS422 / RS485 | Diack | Not available | AIG02LQ04 |
| | | | RS232C | Pure black | | AIG02MQ02 |
| | | 51/00 | R32320 | Hairline silver | | AIG02MQ03 |
| | | 5 V DC | DC 400 / DC 405 | Pure black | | AIG02MQ04 |
| | | | RS422 / RS485 | Hairline silver | | AIG02MQ05 |
| | | | | Pure black | Not available | AIG02MQ12 |
| | STN monochrome LCD | | RS232C | Hairline silver | | AIG02MQ13 |
| GT02M | (white/pink/red backlight) | | | Pure black | | AIG02MQ14 |
| | | | RS422 / RS485 | Hairline silver | | AIG02MQ15 |
| | | 24 V DC | | Pure black | | AIG02MQ22 |
| | | | RS232C | Hairline silver | | AIG02MQ23 |
| | | | | Pure black | Available | AIG02MQ24 |
| | | | RS422 / RS485 | | | |
| | | | | Hairline silver Pure black | | AIG02MQ25 AIG02GQ02 |
| | | | RS232C | | | |
| | | 5 V DC | | Hairline silver | | AIG02GQ03 |
| GT02G | STN monochrome LCD (green/orange/red backlight) | 24 V DC | RS422 / RS485 | Pure black | Not available | AIG02GQ04 |
| | | | | Hairline silver | | AIG02GQ05 |
| | | | RS232C | Pure black | | AIG02GQ12 |
| | | | | Hairline silver | | AIG02GQ13 |
| | | | | Pure black | | AIG02GQ14 |
| | | | | Hairline silver | | AIG02GQ15 |
| | | | RS232C RS422 / RS485 | Pure black | | AIG02GQ22 |
| | | | | Hairline silver | Available | AIG02GQ23 |
| | | | | Pure black | , wallable | AIG02GQ24 |
| | | | | Hairline silver | | AIG02GQ25 |
| | | 24 V DC | R\$232C | Pure black | | AIG05MQ02 |
| | STN monochrome LCD | | RS232C | Hairline silver | Available | AIG05MQ03 |
| GT05M | (white/pink/red backlight) | | | Pure black | | AIG05MQ04 |
| | | | RS422 / RS485 | Hairline silver | Available | AIG05MQ05 |
| | | | | Pure black | | AIG05GQ02 |
| | STN monochrome LCD | | RS232C | | Available | |
| | | | | Hairline silver | | AIG05GQ03 |
| GT05G | (green/orange/red backlight) | 24 V DC | | Hairline silver | | |
| GT05G | | 24 V DC | RS422 / RS485 | Pure black | Available | AIG05GQ04 |
| GT05G | | 24 V DC | RS422 / RS485 | Pure black Hairline silver | Available | AIG05GQ04 AIG05GQ05 |
| GT05G | | 24 V DC | RS422 / RS485 RS232C | Pure black Hairline silver Pure black | Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 |
| GT05G GT05S | | 24 V DC 24 V DC | | Pure black Hairline silver Pure black Hairline silver | | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 |
| | (green/orange/red backlight) | | | Pure black Hairline silver Pure black Hairline silver Pure black | | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 |
| | (green/orange/red backlight) | | RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 |
| | (green/orange/red backlight) | | RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Pure black | Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05 |
| | (green/orange/red backlight) | | RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ02 |
| | (green/orange/red backlight) | | RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 |
| | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | | RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 |
| GT05S | (green/orange/red backlight) STN color LCD *1 | 24 V DC | RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG05SQ06 AIG05SQ06 AIG05SQ06 AIG05SQ06 AIG12MQ02 AIG12MQ04 AIG12MQ05 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ04 AIG12MQ04 AIG12MQ05 AIG12MQ05 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black | Available Available Not available Not available Available | AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ051 AIG12MQ12 AIG12MQ13 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ14 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black | Available Available Not available Not available Available Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG05SQ06 AIG05SQ06 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ04 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12MQ15 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available Not available Available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ05 AIG12MQ07 AIG12MQ13 AIG12MQ14 AIG12MQ15 AIG12QQ2 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black | Available Available Not available Not available Available Available Available Available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ02 AIG05SQ02 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG05SQ05 AIG05SQ04 AIG05SQ04 AIG05SQ04 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ14 AIG12MQ15 AIG12QQ02 AIG12QQ02 AIG12QQ03 |
| GT05S GT12M | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight) | 24 V DC 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver Pure black Hairline silver | Available Available Not available Not available Available Available | AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ02 AIG05SQ03 AIG05SQ04 AIG05SQ05 AIG05SQ05 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ04 AIG12MQ05 AIG12MQ04 AIG12MQ05 AIG12MQ05 AIG12MQ12 AIG12MQ15 AIG12MQ15 AIG12G002 AIG12G003 AIG12GQ04 |
| GT05S | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD | 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black | Available Available Not available Not available Available Available Available Not available | AIG05GQ03 AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12GQ02 AIG12GQ03 AIG12GQ04 AIG12QQ05 AIG12GQ05 |
| GT05S GT12M | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight) STN monochrome LCD | 24 V DC 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C | Pure black Hairline silver Pure black | Available Available Not available Not available Available Available Available Not available | AIG05GQ04 AIG05GQ05 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12QQ2 AIG12QQ2 AIG12GQ03 AIG12GQ04 AIG12GQ05 AIG12GQ12 |
| GT05S GT12M | (green/orange/red backlight) STN color LCD *1 STN monochrome LCD (white/pink/red backlight) STN monochrome LCD | 24 V DC 24 V DC | RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 RS232C RS422 / RS485 | Pure black Hairline silver Pure black Hairline silver | Available Available Not available Not available Available Available Available Not available Not available Not available | AIG05GQ04 AIG05GQ05 AIG05SQ021 AIG05SQ031 AIG05SQ041 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG05SQ051 AIG12MQ02 AIG12MQ03 AIG12MQ04 AIG12MQ05 AIG12MQ12 AIG12MQ13 AIG12MQ14 AIG12MQ15 AIG12QQ2 AIG12GQ03 AIG12GQ04 AIG12GQ05 |

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

Main Unit and Tool Software

| Product name | Description | | | | | | |
|----------------------|-----------------------|--------------|--------------------|----------------------|---------------------|-------------|--|
| Product name | LCD | Power supply | Communication port | Color of front panel | SD memory card slot | Part number | |
| | | | RS232C | Pure black | Available | AIG32MQ02D | |
| GT32M | | 24 V DC | R52320 | Hairline silver | Available | AIG32MQ03D | |
| GT 52IW | STN monochrome LCD | 24 V DC | RS422 / RS485 | Pure black | Available | AIG32MQ04D | |
| | | | K3422 / K3403 | Hairline silver | Available | AIG32MQ05D | |
| | TFT color LCD 24 V DC | | RS232C | Pure black | Available | AIG32TQ02D | |
| GT32T0 | | 24 V DC | R52320 | Hairline silver | Available | AIG32TQ03D | |
| 613210 | | | RS422 / RS485 | Pure black | Available | AIG32TQ04D | |
| | | | | Hairline silver | Available | AIG32TQ05D | |
| | TET color I CD | 24 V DC | RS232C | Pure black | Available | AIG32TQ12D | |
| GT32T1 | | | | Hairline silver | Available | AIG32TQ13D | |
| 613211 | TFT COIOLECD | | RS422 / RS485 | Pure black | Available | AIG32TQ14D | |
| | | | K3422 / K3403 | Hairline silver | Available | AIG32TQ15D | |
| Terminal GTWIN Ver.2 | Japanese version | | Terminal GTWIN | CD-ROM | | AIGT8000V2 | |
| | English version | | Terminal GTWIN | CD-ROM | | AIGT8001V2 | |
| Terminal GTWIN Ver.2 | Japanese version | | Terminal GTWIN | CD-ROM | | AIGT8000V2R | |
| Upgrade version * | English version | | Terminal GTWIN | CD-ROM | | AIGT8001V2R | |

* For upgrading Terminal GTWIN Ver. 1 to Ver. 2.

Cables PLC connection cable

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

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

GTseries | Part Number List

Options



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

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



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

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

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



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

Part No.: AIG12830 For GT02 / GT02L / GT12



GT05 / GT32 / GT32-E

mounting parts 5 sets of mounting parts

(2 parts / set) Package includes one set.

Part No.: AIGT28321 For GT05

Part No.: AIG32830 For GT32 / GT32-E



Spare connector

Part No.: AIGT084

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

Part No.: AFPX-BATT

GT32 /GT32-E backup battery



GT02 / GT05 / GT12 /

GTseries | specifications

| | | GT32M-E | | 61 | Г32Т-Е | | | | | |
|---|---|--|---------------------------------------|------------------------------------|----------------|--------------------------------|--|--|--|--|
| | Item – | RS232C RS422/RS485 | | RS232C | | RS422/RS485 | | | | |
| Rated volta | age | | 24 V DC | | | | | | | |
| Operating | voltage range | 21 | 6 to 26.4 V DC | | | | | | | |
| Power con | sumption | 4.8 W or less | | 7.2 \ | V or less | | | | | |
| Power supply | unit isolation method | Tra | sformer isolation | | | | | | | |
| Ambient te | mperature | -20 to + | 0 °C −4 to +140 °F *5 | | | | | | | |
| Ambient humidity 10 to 90 %RH (at 25 °C 77 °F), No condensation | | | | | | | | | | |
| Storage temperature -20 to +60 °C -4 to +140 °F | | | | | | | | | | |
| Storage humidity 10 to 90 %RH (at 25 °C 77 °F), No condensation | | | | | | | | | | |
| Vibration r | esistance | 5 to 8.4 Hz, amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz, accel | ration 9.8 m/s ² , 10 swee | ps each in X, Y and Z directions (| 1 octave / mir | ı.) | | | | |
| Shock resi | stance | 147 m/s ² , 3 times in | each of the X, Y and Z | directions | | | | | | |
| Superposed | noise suppression | 1,000 V [P-P] or more, pulse width of 50 ns, 1 | µs between power su | oply terminals (by a noise simula | ator) | | | | | |
| Environme | ntal resistance | IP67 (in the initial stages), Dust-proof and drip-proof from the fron | of the panel only (Rub | ber packing is attached to the p | anel contact | surface.) *1 | | | | |
| Mass | | | 70 g approx. | | | | | | | |
| | Display device | TFT monochrome LCD | | TFT c | olor LCD | | | | | |
| | Resolution | 320 | N) x 240 (H) dots | | | | | | | |
| Display | Display color | 2 colors (black/white, 16-gray scale) | | 409 | 6 colors | | | | | |
| | Displayable area | 115.2 (W) × 86.4 | H) mm 4.54 (W) × 3.4 | 0 (H) in | | | | | | |
| | Backlight | | White LED | | | | | | | |
| | Font types | Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, Ch True Type (GTWIN): 10 | | | n or height, | | | | | |
| | Languages | Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, Italian, Spanish, French, and Turkish | | | | | | | | |
| | Graphics | Straight lines, Continuous straight lines, Squares, Circles, Ovals, Arcs, Elliptic arcs, Fan shapes, Elliptic fan shapes, Beveled squares, and Bitmaps | | | | | | | | |
| | Number of screens *2 | 180 screens approx. | | | | | | | | |
| | Screen setting No. | Base screens: No. 0 to 3FF, Key board screens: No. 0 to 7, Login screens: No. 0 to F | | | | | | | | |
| | Part functions | Messages, Lamps, Switches, Function switches, Data, Bar graphs, Clocks, Keyboards, Line graphs, Alarm list, Alarm record, and Custom parts (messages, lamps, switches) | | | | | | | | |
| unctions | Other functions | Recipe, Flow display, Write device, Multiple PLC connection, FP monitor, Language switching, GT link, Operation security, Data logging, and SD recipe *3 | | | | | | | | |
| | Clock function | Provided with a built-in clock. (Can also refer to and display a PLC clock.) * Buy a commercially available battery. | | | | | | | | |
| | Backlight brightness adjustment | Can be set on the menu screen, via the GT configuration screen of GTWIN, or via PLC. | | | | | | | | |
| | Contrast adjustment | Contrast can be ad | usted by using the tou | ch panel. | | | | | | |
| | Buzzer | | Installed | | | | | | | |
| | Automatic communication settings | The communication speed (baud rate) is automatically changed if there is no response from the target equipment. | | | | | | | | |
| | Through function | GT connected between PC and PLC allows | PLC to be debugged w | ithout a direct connection to a P | °C. | | | | | |
| | Screen creation | Dedicated software should be use | . Applicable OS: Wind | ows® 2000/XP/Vista/7 *6 | | | | | | |
| Fouch key | resolution | Free | iyout (8 dots min.) | | | | | | | |
| Fouch key | operation force | | 0.8 N or less | | | | | | | |
| Fouch key | | 1 million operat | ons or more (at 25 °C | 77 °F) | | | | | | |
| | Communication standard | Conforms to RS232C Conforms to RS422 / RS485 | C | onforms to RS232C | | Conforms to RS422 / RS485 | | | | |
| COM. | External communication conditions | Baud rate: 9,600 bps, 19,200 b Data bits: 7 or 8 bits, Pa | | | | | | | | |
| | Protocol | Our FP series supported, General-purpose serial interface supported, and Other comp | anies' PLC supported | (Refer to the "PLC COMPATIBIL | ITY TABLE | for manufacturers and models.) | | | | |
| | Connector | Connecto | terminal block (8 pins | | | | | | | |
| | Communication standard | | USB1.1 | | | | | | | |
| Screen lata | Communication conditions with PC | | - | | | | | | | |
| ransfer nterface | Protocol | Our | edicated protocol | | | | | | | |
| | Connector | | ISB TYPE-B | | | | | | | |
| | Ethernet port *4 | | - | | | | | | | |
| Jser's | Memory | | F-ROM | | | | | | | |
| memory | Capacity | | 12 Mbyte | | | | | | | |
| Memory | Memory | | SRAM | | | | | | | |
| backup | Backup battery | Lithium battery (replaceable) | FPX-BATT *Does not | come with product. | | | | | | |

Conformance to the UL / cUL standards

*1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing.

*2 The number of screens that can be registered varies according to the registered contents.

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

- *3 The data logging and SD recipe functions are available with only models equipped with an SD/SDHC memory card slot.
- *4 Simultaneous USB and Ethernet communications are not possible.

*5 When the unit is being installed in a horizontal orientation, the usable range is -20 to +55 °C -4 to +131 °F.

*6 Not compatible with any 64-bit version of Windows.

GTseries | specifications

| Item | | GT02L | GT02 | | GT05M / GT05G | | GT05S | | | | |
|---|--|---|---|---|--|---|--------------------------------|------------------------------|--|--|--|
| | | 5 V / RS232C 5 V / RS422 / RS485 | 5 V / RS232C 5 V / RS422 / RS485 | 24 V / RS232C 24 V / RS422 / RS485 | RS232C | RS422 / RS485 | RS232C | RS422 / RS485 | | | |
| Rated voltage | | 5 V DC | 10400 | | | 24 V DC | | | | | |
| Operating | voltage range | 4.5 to 5.5 V DC | | | 21.6 to 26.4 V DC | | | | | | |
| Power con | sumption | 1 W or less | | 1.9 W or less | 2.4 W c | r less | 3.6 W or | less | | | |
| Power supply | unit isolation method | - | _ | | | Transforme | er isolation | | | | |
| Ambient te | emperature | | | 0 to 50 °C 3 | 2 to 122 °F | | | | | | |
| Ambient h | umidity | | 1 | 20 to 85 % RH (at 25 °C | 77 °F), No condensation | | | | | | |
| Storage temperature | | -20 to 60 °C -4 to 140 °F | | | | | | | | | |
| Storage humidity | | 10 to 85 % RH (at 25 °C 77 °F). No condensation | | | | | | | | | |
| Vibration r | | 5 to 8.4 Hz amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz acceleration | | | | Double amplitude: 0.75 mm | 0.03 in. 10 minutes in each of | the X. Y. and Z direction | | | |
| Shock resi | | 5 to 8.4 Hz amplitude: 3.5 mm 0.14 in, 8.4 to 150 Hz acceleration 9.8 m/s ² , 10 sweeps each in X, Y and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/min.) 10 to 55 Hz (1 minute cycle): Double amplitude: 0.75 mm 0.03 in, 10 minutes in each of the X, Y, and Z directions (1 octave/minutes (1 octave/minute | | | | | | | | | |
| | noise suppression | | ,000 V [P-P] or more, pulse | | | | | 0110 | | | |
| | | IP65 (in the initial stages) *1 | IP67 (in the ini | | ween power suppry termin | | | | | | |
| Environmental resistance Mass | | | - | | IP65 (in the initial stages) *1 230g approx. | | | | | | |
| IVI855 | Disalau davias | 150g approx. | 170g ap | - | | 230g a | | L CD *2 | | | |
| | Display device | | STN monoch | | | | STN color | | | | |
| | Resolution | 160 (W) × 64 (H) dots | 240 (W) × 9 | | 320 (W) × 24 | | | 1 | | | |
| Display | Display color | | 2 colors (bla | · | | | 4,096 co | DIOFS | | | |
| | Displayable area | 88.0 (W) × 35.2 (H) mm 3.46 (W) × 1.39 (H) in | 88.5 (W) × 35.4 (H) mm | 3.48 (W) × 1.39 (H) in | | 71.0 (W) × 53.3 (H) mn | n 2.80 (W) × 2.10 (H) in | | | | |
| | Backlight | White LED | GT02M: 3-color LED GT02G: 3-color LED | | GT05M: 3-color LED GT05G: 3-color LED | | White L | ED | | | |
| | Font types | Fixed (GTWIN): 8 x 8, 16 x 8, and 16 x 16 dots, Characters can be displayed in the 1, 2, 4, or 8 times width or height, TrueType (GTWIN): 10 to 64 dots Windows [®] : 10 to 64 dots | Fixed (GTWIN) : 8 x 8, 1 Characters can be disp 8 times width TrueType (GTWIN | layed in the 1, 2, 4, or hor height. | Characters | Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, can be displayed in the 1, 2, 4, or 8 times width or height. te (GTWIN): 10 to 240 dots, Windows [®] : 10 to 240 dots | | | | | |
| | Languages | Japane | se, English, Simplified Chi | inese, Traditional Chines | e, Korean, German, Italia | n, Spanish, French, and | Turkish | | | | |
| | Graphics | Straight lines, Continuo | ous straight lines, Squares | , Circles, Ovals, Arcs, Ell | iptic arcs, Fan shapes, El | iptic fan shapes, Bevele | d squares and Bitmaps | | | | |
| | Number of screens *3 | 80 screens approx. | 250 screen | | 240 screen | | 180 screens | approx. | | | |
| | Screen setting No. | | | No. 0 t | o 3FF | | | | | | |
| Functions | Part functions | - | | | | | | | | | |
| | Other functions | | | | | | | | | | |
| | Clock function | - | Provided with a built-in clock. (Can also refer to and display a PLC clock.) *Buy a commercially available battery. Note: For the GT02 series, only GT02M2 and GT02G2 have a built-in clock. | | | | | | | | |
| | Contrast adjustment | Contrast can be adjusted by using the touch panel. | | | | | | | | | |
| | oonaast aajastinent | | | Contrast can be adjusted | by using the touch panel. | | | | | | |
| | Buzzer | - | | contrast can be adjusted | by using the touch panel. Insta | led | | | | | |
| | · · · | — The co | pmmunication speed (bauc | | Insta | | pment. | | | | |
| | Buzzer | | | I rate) is automatically ch | Insta anged if there is no respo | nse from the target equi | | | | | |
| | Buzzer Automatic communication settings | | ommunication speed (bauc GT connected between PC | I rate) is automatically ch C and PLC allows PLC to | Insta anged if there is no respo | nse from the target equi irect connection to a PC | | | | | |
| Fouch key | Buzzer Automatic communication settings Through function | | ommunication speed (bauc GT connected between PC | I rate) is automatically ch C and PLC allows PLC to | Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 | nse from the target equi irect connection to a PC | | | | | |
| | Buzzer Automatic communication settings Through function Screen creation | | ommunication speed (bauc GT connected between PC | d rate) is automatically ch C and PLC allows PLC to are should be used. App | Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.) | nse from the target equi irect connection to a PC | | | | | |
| Touch key | Buzzer Automatic communication settings Through function Screen creation resolution operation force | | ommunication speed (bauc GT connected between PC | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c | Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.) or less | nse from the target equi irect connection to a PC | | | | | |
| Fouch key | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication | Conforma to B52220 Conforms to | GT connected between PC Dedicated softw | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to | Insta anged if there is no respo be debugged without a d licable OS: Windows [®] 200 8 dots min.) or less | nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to | | Conforms to | | | |
| Touch key Touch key COM. | Buzzer Automatic communication settings Through function Screen creation resolution operation force life | - Outrant | Conforms Conforms to to RS232C RS422 / RS425 / RS423 / RS425 / RS423 / RS485 Baud rate: 9,6 | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 500 bps, 19,200 bps, 38,4 | Insta anged if there is no respo be debugged without a d licable OS: Windows® 20(8 dots min.) rr less more (at 25 °C 77 °F) | nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps | | Conforms to RS422 / RS485 | | | |
| Fouch key Fouch key COM. | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication | Conforma to B52220 Conforms to | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 its: 7 or 8 bits, Parity: No | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and me, Odd, Even, Stop bits: | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External conditions Protocol | Conforms to RS232C Conforms to RS422 / RS485 | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS45] 500 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 its: 7 or 8 bits, Parity: No | Insta anged if there is no response be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: C supported (Refer to the hal block (8 pins) | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. Sort | Buzzer Automatic communication settings Through function Screen creation operation force life Communication standard External communication conditions Protocol Connector Communication | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C RS422 (RS45) 600 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin | Insta anged if there is no response be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: C supported (Refer to the hal block (8 pins) | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. Soort | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions Protocol Connector Communication Communication Communication | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C RS422 (RS45) 600 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1 | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. Soort | Buzzer Automatic communication settings Through function Screen creation operation force life Communication standard External communication conditions Protocol Connector Communication standard Communication conditions with PC | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C [R842/ R846] Baud rate: 9,6 Data b | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C [RS42] / RS485] 000 bps, 19,200 bps, 38,4 iits: 7 or 8 bits, Parity: NG ted, Other companies' PL Connector termir USE | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1 | Conforms to RS422 / RS485 115,200 bps 1 bit | Conforms to RS232C | RS422 / RS485 | | | |
| Fouch key Fouch key COM. Soort | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External conditions Protocol Connector Communication standard Communication standard Communication standard Communication standard Communication conditions with PC | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C [RS42] / RS485] 000 bps, 19,200 bps, 38,4 iits: 7 or 8 bits, Parity: NG ted, Other companies' PL Connector termir USE | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) r less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the ial block (8 pins) 11.1 | nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY | Conforms to RS232C | RS422 / RS485 | | | |
| Touch key Touch key COM. port Screen data transfer interface | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 itts: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) or less more (at 25 °C 77 °F) Conforms to RS232C 400 bps, 57,600 bps, and nne, Odd, Even, Stop bits: C supported (Refer to the nal block (8 pins) 11.1 | nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY | Conforms to RS232C | RS422 / RS485 | | | |
| Touch key Touch key COM. port Screen data transfer interface User's | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory | Conforms to RS232C Conforms to RS232C RS422 / RS485 Our FP series supported, General-purpor | Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C (RS422 / RS485 300 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE Our dedicat | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the al block (8 pins) 11.1 - - - - - - - | nse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY | Conforms to RS232C | RS422 / RS485 | | | |
| Touch key Touch key COM. port Screen data transfer interface User's | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication standard External communication conditions Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory Capacity | Conforms to RS232C Conforms to RS422 / RS485 Our FP series supported, General-purpo | Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N c 1 million operations or Conforms Conforms to to RS232C [RS422 / RS485] 600 bps, 19,200 bps, 38,4 itts: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ine, Odd, Even, Stop bits: C supported (Refer to the al block (8 pins) 11.1 - - - - - - - | Inse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY USB T | Conforms to RS232C | RS422 / RS485 | | | |
| | Buzzer Automatic communication settings Through function Screen creation resolution operation force life Communication conditions Protocol Connector Communication conditions with PC Protocol Connector Communication conditions with PC Protocol Connector Ethernet port *5 Memory | Conforms to RS232C Conforms to RS232C RS422 / RS485 Our FP series supported, General-purpor | Conforms Conforms to to RS232C RS422 / RS422 / RS422 / RS422 / RS422 / RS435 Baud rate: 9,6 Data bose serial interface support | d rate) is automatically ch C and PLC allows PLC to are should be used. App Free layout (0.8 N of 1 million operations or Conforms Conforms to to RS232C (RS422 / RS485 300 bps, 19,200 bps, 38,4 itis: 7 or 8 bits, Parity: No ted, Other companies' PL Connector termin USE Our dedicat | Insta anged if there is no respo be debugged without a d licable OS: Windows® 200 8 dots min.) rr less more (at 25 °C 77 °F) Conforms to RS232C 100 bps, 57,600 bps, and ne, Odd, Even, Stop bits: CC supported (Refer to the lal block (8 pins) 11.1 - - - - - - - - - - - - - - - | Inse from the target equi irect connection to a PC 0/XP/Vista/7*7 Conforms to RS422 / RS485 115,200 bps 1 bit "PLC COMPATIBILITY USB T USB T | Conforms to RS232C | RS422 / RS485 | | | |

Conformance to the UL / cUL standards

*1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing.

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

- UL / cUL file No. E96300 UL standard No. UL508
- *3 The number of screens that can be registered varies according to the registered contents.
 *4 The data logging and SD recipe functions are available with only models equipped with an SD / SDHC memory card slot.

*5 Simultaneous USB and Ethernet communications are not possible.

*6 Among GT02 series, available for GT02M2 and GT02G2 only.

*7 Not compatible with any 64-bit version of Windows®.

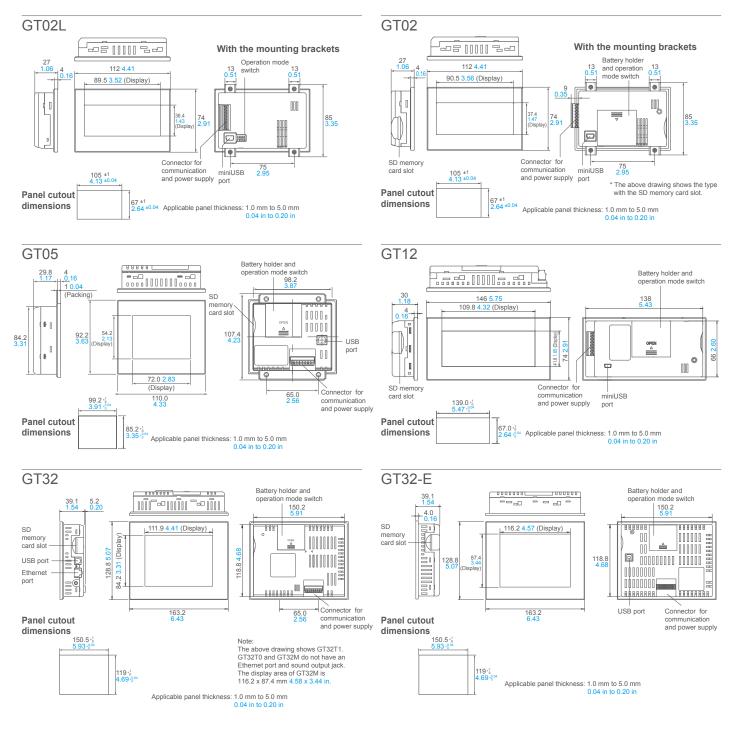
| Item | | GT12 | GT32M | GT3 | 2T0 | GT32 | T1 | | | |
|---|---|--|---|--|---------------------------|---------------------------------------|------------------|--|--|--|
| | item | RS232C RS422 / RS485 | RS232C RS422 / RS485 | RS232C | RS422 / RS485 | RS232C | RS422 / RS485 | | | |
| Rated volt | age | | 24 \ | DC | | | | | | |
| Operating | voltage range | | 21.6 to 2 | 6.4 V DC | | | | | | |
| Power consumption | | 1.7 W or less | 10 W 0 | 12 W or | less | | | | | |
| Power supply unit isolation method | | | Transformer isolation | | | | | | | |
| Ambient te | emperature | 0 to 50 °C 32 to 122 °F | | 0 to 50 °C 32 | to 122 °F*5 | | | | | |
| Ambient humidity | | | 20 to 85 % RH (at 25 °C 77 °F). No condensation | | | | | | | |
| Storage temperature | | -20 to 60 °C -4 to 140 °F | | | | | | | | |
| Storage humidity | | 10 to 85 % RH (at 25 °C 77 °F). No condensation | | | | | | | | |
| Vibration r | - | 5 to 9 Hz amplitude: 3.5 mm 0.14 in, 9 to 150 Hz acceleration 9.8 m/s ² , | | | 0.03 in 10 minutes in e | ach of the X-X- and Z direc | tions | | | |
| Shock resi | | 10 sweeps each in X, Y and Z directions (1 octave/min.) 147 m/s ² , 3 times in each of the X, Y and Z directions | | s ² or more, 4 times in eac | | | | | | |
| | noise suppression | | | | | | | | | |
| | | IDOT (In the Initial strength | 1,000 V [P-P] of more, puis | | | ninals (by a noise simulator | 1 | | | |
| Environmental resistance | | IP67 (in the initial stages)*1 | | IP65 (in the ini | | | | | | |
| Mass | | 240 g approx. | 500 g approx. | 470 | - | 480 g ap | prox. | | | |
| | Display device | STN monoo | chrome LCD | | | olor LCD | | | | |
| | Resolution | 320 (W) × 120 (H) dots | | 320 (W) × 24 | | | | | | |
| Display | Display color | 2 colors (black/white, 8-gray scale) | 2 colors (blue/white) | | | 6 colors | | | | |
| | Displayable area | 108.8 (W) × 40.8 (H) mm 4.28 (W) × 1.61 (H) in | 113.2 (W) × 86.4 (H) mm 4.46 (W) × 3.40 (H) in | | | 1m 4.36 (W) × 3.29 (H) in | | | | |
| | Backlight | GT12M: 3-color LED (white, pink, red) GT12G: 3-color LED (green, orange, red) | Averag | CFL *Not re e life for backlight; GT32M GT32T: 50,000 hou | : 75,000 hours (at 25 °(| C 77 °F), | | | | |
| | Font types | Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots Characters can be displayed in the 1, 2, 4, or 8 times width or height. True Type (GTWIN): 10 to 120 dots | | Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots, rs can be displayed in the 1, 2, 4, or 8 times width or height. Fype (GTWIN): 10 to 240 dots, Windows [®] : 10 to 240 dots | | | | | | |
| | Languages | Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, Italian, Spanish, French, and Turkish | | | | | | | | |
| | Graphics | Straight lines, Continuous straight lines, Squares, Circles, Ovals, Arcs, Elliptic arcs, Fan shapes, Elliptic fan shapes, Beveled squares and Bitmaps | | | | | | | | |
| | Number of screens *2 | 2-gray scale: 250 screens approx., | 240 screens approx. | | | ens approx. | | | | |
| | Screen setting No. | 8-gray scale: 200 screens approx. | No. 0 | to 3FF | | | | | | |
| | Part functions | | | | | | | | | |
| Functions | Other functions | Recipe. Flow display. Write device. Multiple PLC connection. FP monitor. Language switching. | | | | | | | | |
| | Clock function | Provided with a built-in clock. (Can also refer to and display a PLC clock.) *Buy a commercially available battery. | | | | | | | | |
| | Contrast adjustment | nt Contrast can be adjusted by using the touch panel. Not adjustable | | | | | | | | |
| | Buzzer | | Insta | alled | | | | | | |
| | Automatic communication settings | The co | ommunication speed (baud rate) is automatically ch | anged if there is no respo | nse from the target equ | uipment. | | | | |
| | Through function | GT o | onnected between a PC and PLC allows the PLC t | o be debugged without a | direct connection with th | he PC. | | | | |
| | Screen creation | | | | | | | | | |
| Touch key resolution | | | Free layout | | | | | | | |
| | operation force | | 0.8 N | | | | | | | |
| Touch key | | | 1 million operations or | | | | | | | |
| .ouon key | Communication | Conforms to RS232C Conforms to | Conforma to RS333C Conforms to | Conforms to RS232C | Conforms to | Conforms to RS232C | Conforms to | | | |
| COM. | standard External communication conditions | RS422 / RS485 | Baud rate: 9,600 bps, 19,200 bps, 38, Data bits: 7 or 8 bits, Parity: No | 400 bps, 57,600 bps and | | Contonnis to NS2320 | RS422 / RS485 | | | |
| port | Protocol | Our FP series supported, General-purpose serial interface supported, Other companies' PLC supported (Refer to the "PLC COMPATIBILITY TABLE" for manufacturers and models.) | | | | | | | | |
| | | Connector terminal block (8 pins) | | | | | | | | |
| | Connector | | | | | | | | | |
| | Communication | | | 31.1 | | | | | | |
| | | | | - | | | | | | |
| data transfer | Communication standard Communication conditions with PC | | USF - | - | | | | | | |
| data transfer | Communication standard Communication conditions with PC Protocol | LICP Mini P | | - ted protocol | /PE_R | | | | | |
| data transfer | Communication standard Communication conditions with PC Protocol Connector | USB Mini B | USF - | - | ′PE-B | | | | | |
| data transfer | Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 | USB Mini B | USI - Our dedica - | - ted protocol USB Th | ′ΡΕ-Β | Yes (100BASE-TX, | 10BASE-T) *7. *8 | | | |
| transfer interface User's | Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 Memory | | USE | - ted protocol USB Th | | | 10BASE-T) *7, *8 | | | |
| data transfer interface | Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 | USB Mini B 2 Mbyte | USE | - Led protocol USB TY | | Yes (100BASE-TX, er.1.10 or later) | 10BASE-T) *7. *8 | | | |
| data transfer interface User's | Communication standard Communication conditions with PC Protocol Connector Ethernet port *4 Memory | | USE | - Led protocol USB TY | | | 10BASE-T) *7. *8 | | | |

Conformance to the UL / cUL standards

- *1 This protective structure condition applies to the front surface of the installed panel. This condition does not guarantee usage in all environments provided by users. When reattaching the panel, replace the waterproof packing. *2 The number of screens that can be registered varies according to the registered contents.
- *5 When the unit is being installed in a horizontal orientation, the usable range is 0 to +40 $^\circ C$ 32 to +104 $^\circ F.$
- *6 WAV format (PCM, 8 KHz sampling rate, 16 bits, monaural), Maximum sound data capacity: 512 KB (30 sec, approx.), Maximum registrable number of sound data items: 128
- *7 The unit caries out serial communication data processing at 115.2 kbits/s. *8 Communications with external equipment (PLC) are not available.
- *9 Not compatible with any 64-bit version of Windows®.

- UL / cUL file No. E96300 UL standard No. UL508
- *3 The data logging and SD recipe functions are available with only models equipped with an SD / SDHC memory card slot.
 *4 Simultaneous USB and Ethernet communications are not possible.

GTseries DIMENSIONS Unit: mm in



Please contact

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