# GOT Simple – GS Series

## GS General Specifications

| Item | Specifications | | | | | |
|---|---|---|---|---|---|---|
| Operating Ambient Temperature | 0 to 50° | | | | | |
| Storage Ambient Temperature | -20 to 60° | | | | | |
| Operating/Storage Ambient Humidity | 10 to 90%RH, non-condensing | | | | | |
| Vibration Resistance | Conforms to IEC 61131-2 | | **Frequency** | **Acceleration** | **Half-Amplitude** | **Sweep Count** |
| | | Under intermittent vibration | 5 to 8.4Hz | - | 3.5mm | 10 times each in X, Y and Z directions |
| | | | 8.4 to 150Hz | 9.8m/s² | - | |
| | | Under continuous vibration | 5 to 8.4Hz | - | 1.75mm | - |
| | | | 8.4 to 150Hz | 4.9m/s² | - | |
| Shock Resistance | Conforms to IEC 61131-2 (147m/s², 3 times each in the X, Y, and Z directions) | | | | | |
| Operating Atmosphere | Must be free of lamp black, corrosive gas, flammable gas, or excessive amount of electro conductive dust particles. Must be no direct sunlight. (Same as for saving) | | | | | |
| Operating Altitude (*1) | 2000m or less | | | | | |
| Overvoltage Category (*2) | II or less | | | | | |
| Pollution Degree (*3) | 2 or less | | | | | |
| Cooling Method | Self-cooling | | | | | |
| Grounding | Type D grounding (100Ω or less). Connect to panel if unable to ground. | | | | | |

**Notes:**
1. Do not use or store the GOT under pressures higher than the atmospheric pressure of altitude 0m (0ft). Failure to observe this instruction may cause a malfunction. When the air inside the control panel is purged by pressurization, the surface sheet may be lifted by high pressure. As a result, the touch panel may be difficult to press, and the sheet may be peeled off.
2. This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the raged voltage of 300V is 2500V.
3. This index indicates the degree to which conductive pollution is generated in the environment where the equipment is used. In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation. Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration. For inquiries relating to the status of conforming to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

## GS Base Units

| Category | | Model Number | Screen Size | Display Section | Display Color | Panel Color | Power Supply | Stocked Item |
|---|---|---|---|---|---|---|---|---|
| GS21 | GS2110 | GS2110-WTBD-N | 10" WVGA | TFT color | 65536 colors | Black | 24VDC | S |
| | GS2107 | GS2107-WTBD-N | 7" WVGA | | | | | S |
| GS25 | GS2512 | GS2512-WXTBD | 12" WXGA | | | | | S |

## GS Power Supply

| Model Number | GS2110-WTBD-N | GS2107-WTBD-N | GS2512-WXTBD |
|---|---|---|---|
| Power Supply Voltage | 24VDC (+10%, -15%), ripple voltage 200mV or less | | 24 VDC (+10%, -15%) |
| Power Consumption | 7.6W (317mA/24V) or less | 6.5W (271mA/24V) or less | 20W or less |
| With Backlight Off | 3.8W (158mA/24V) or less | 3.8W (158mA/24V) or less | 8W |
| Inrush Current | 17A or less (6ms, ambient temperature 25°C, maximum load) | | 59A or less (2 ms, ambient temperature: 25°C, under the maximum load) |
| Allowable Momentary Power Failure Time | Within 5ms | | 5ms or less |
| Noise Immunity | Conforms to IEC61000-4-4, 2kV (power supply line) | | Noise voltage: 500 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz |
| Withstand Voltage | 350VAC for 1 minute between power supply and ground | | |
| Insulation Resistance | 10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground) | | |

## GS Installer Installation Procedure

1. Double click the GS Installer (GS Installer.exe) in the folder of the installer for GT Works3 1.290C or later

2. When the installation completed message appears, click the [Finish] button.
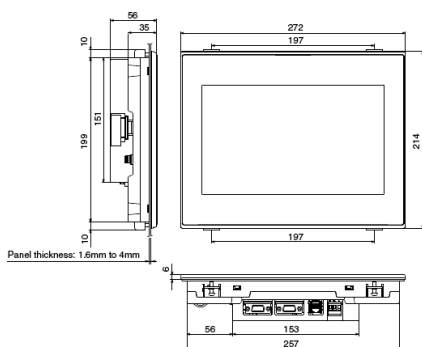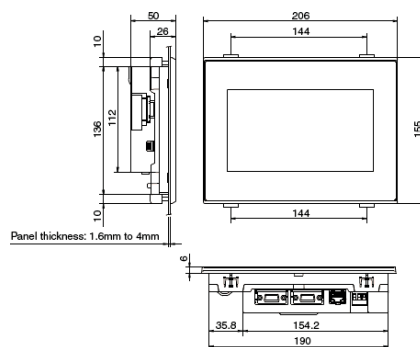
<Root>\Disk1\TOOL\GS

## GS Performance Specifications

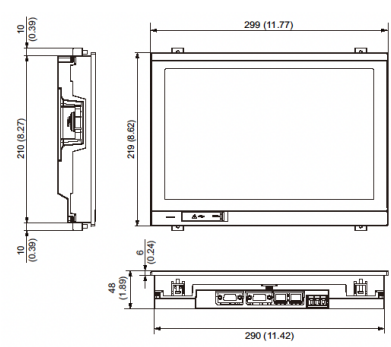| Model Number | | GS2110-WTBD-N | GS2107-WTBD-N | GS2512-WXTBD |
|---|---|---|---|---|
| Display Section | Display Device | TFT color LCD | | |
| | Screen Size | 10" | 7" | 12.1" wide screen |
| | Resolution | 800 x 480 dots | | WXGA: 1280 × 800 dots |
| | Display Size (W x H) mm (inch) | 222 x 132.5 (8.74 x 5.22) (Horizontal format) | 154 x 85.9 (6.06 x 3.38) (Horizontal format) | 261.12 x 163.2 (10.28 x 6.43) |
| | Number of Characters | 16-dot standard font: 50 chars. x 30 lines (2-byte) (Horizontal format) | | 16-dot standard font: 80 chars. x 50 lines (two-byte chars.); 12-dot standard font: 106 chars. x 66 lines (two-byte chars.) |
| | Display Color | 65536 colors | | |
| | Backlight | LED (not replaceable) Backlight off/screen saving time can be set | | LED (Not replaceable) |
| Touch Panel | Type | Analog resistive film | | |
| | Key Size | Minimum 2 x 2 dots (per key) | | Minimum 2 × 2 dots (per key) (*7) |
| | Simultaneous Press | Simultaneous press prohibited (only 1 point can be pressed) | | Not available (Only 1 pt can be touched) (*5) |
| | Life | 1 million times (operating force 0.98N or less) | | |
| Memory | C Drive | Flash memory (internal) (15MB), for storing project data, OS Life (No. of writings) 100000 times | | Memory for storage (ROM): 32 MB, Memory for operation (RAM): 128 MB Life (number of write times) 100000 times |
| Built-in Clock Precision | | - | | ±90 seconds/month (Ambient temperature: 25°C) |
| Battery | | - | | GT11-50BAT lithium battery; Life: Approx. 5 years (Ambient temperature: 25°C) |
| Built-in Interface | RS-422/485 | RS-422/485, 1ch; Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-Sub 9 pin (female); Application: For communication with controllers Terminating resister: 330Ω, 110Ω, OPEN (Selectable by the terminating resistor setting switch) | | 1 channel, transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) |
| | RS-232 | RS-232, 1ch; Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-Sub 9 pin (male); Application: For communication with controllers and a barcode reader; For connecting a personal computer (Project data read/write, FA transparent function) | | 1 channel, transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) |
| | Ethernet | Data transfer method: 100BASE-TX, 10BASE-T, 1ch; Connector shape: RJ-45 (modular jack); Application: For communication with controllers For connecting a personal computer (Project data read/write, FA transparent function) | | 2 channels, data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X |
| | USB | USB (Full Speed 12Mbps), 1ch; Connector shape: Mini-B; Application: For connecting a personal computer (Project data read/write, FA transparent function) | | USB (Host): 1 channel (rear face) USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A; USB (Device): 1 channel (front face); USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B |
| | SD Card | SD compliant, 1ch; Supported memory card: SDHC memory card, SD memory card Application: Project data read/write, logging data save | | 1 channel, SDHC compliant (max. 32 GB) |
| Wireless LAN Communication Unit Interface | | - | | For installing a wireless LAN communication unit |
| Sound Output Interface | | - | | 1 channel, WAV format (16 bits, 8.000 kHz/16.000 kHz, monoral); Applicable plug: ø3.5 stereo mini-plug (3-prong) |
| Buzzer Output | | Single tone (LONG/SHORT/OFF adjustable) | | Single tone (tone and tone length adjustable) |
| Protective Structure | | IP65F (Only the front part of the panel) | | Front: IP67F (*6,*8) In control panel: IP2X |
| Ext. Dimensions (W x H x D) mm (inch) | | 272 x 214 x 56 (10.71 x 8.43 x 2.21) | 206 x 155 x 50 (8.11 x 6.11 x 1.97) | 299 x 219 x 48 (11.77 x 8.62 x 1.89) |
| Panel Cut Dims (W x H x D) mm (inch) | | | | 290.5 x 210.5 x 210.5 (11.44 x 210.5 x 8.29) |
| Weight (Excl. Mounting Brackets) (kg) | | 1.3 | 0.9 | 1.7 (3.7 lb) |
| Compatible Software Package | | GT Designer3 Version1.250L or later (English Version) | | GT Works3 Version1.290C or later |

## External Dimensions

**GS2110-WTBD-N**



Panel thickness: 1.6mm to 4mm

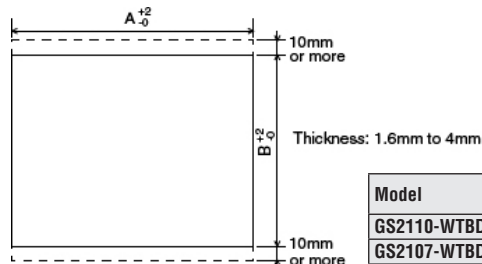**GS2107-WTBD-N**



Panel thickness: 1.6mm to 4mm

**GS2512-WXTBD**

## Panel Cutting Dimensions

Open an installation hole on the control panel with the dimensions as shown below. For the mounting brackets, space of 10mm is required above the top and below the bottom of the hole.

Horizontal format (Rotate the image 90 degree for vertical format)



| Model | A | B |
|---|---|---|
| GS2110-WTBD-N | 256 | 200 |
| GS2107-WTBD-N | 191 | 137 |
| GS2512-WXTBD | 290.5 | 210.5 |

### RS-422 Cable

| Product Name | Model Number | Cable Length | Specifications | Stocked Item |
|---|---|---|---|---|
| QnA/A/FXCPU Direct Connection Cable Computer Link Connection Cable | GT01-C30R4-25P | 3m | Between QnA/ACPU/motion controller CPU (A Series)/ FXCPU and GOT; Between RS-422 conversion cable (FA-CNV_CBL) and GOT; Between serial communication module and GOT [Between D-sub 25-pin and D-sub 9-pin] | S |
| | GT01-C100R4-25P | 10m | | - |
| | GT01-C200R4-25P | 20m | | - |
| | GT01-C300R4-25P | 30m | | - |
| Computer Link Connection Cable | GT09-C30R4-6C | 3m | Between serial communication module and GOT; Between computer link module and GOT [Between loose wire and D-sub 9-pin] | - |
| | GT09-C100R4-6C | 10m | | - |
| | GT09-C200R4-6C | 20m | | - |
| | GT09-C300R4-6C | 30m | | - |
| FXCPU Direct Connection Cable FXCPU Communication Expansion Board Connection Cable | GT01-C10R4-8P | 1m | Between FXCPU and GOT; Between FXCPU communication expansion board and GOT [Between MINI-DIN 8-pin connector and D-sub 9-pin] | S |
| | GT01-C30R4-8P | 3m | | S |
| | GT01-C100R4-8P | 10m | | S |
| | GT01-C200R4-8P | 20m | | - |
| | GT01-C300R4-8P | 30m | | - |

### RS-232 Cable

| Product Name | Model Number | Cable Length | Specifications | Stocked Item |
|---|---|---|---|---|
| Q/LCPU Direct Connection Cable | GT01-C30R2-6P | 3m | Between Q/LCPU and GOT [Between MINI-DIN 6-pin and D-sub 9-pin] | S |
| FXCPU Communication Expansion Board Connection Cable FXCPU Communication Special Adapter Connection Cable | GT01-C30R2-9S | 3m | Between FXCPU communication expansion board and GOT; Between FXCPU communication special adapter and GOT [Between D-sub 9-pin and D-sub 9-pin] | S |
| FXCPU Communication Special Adapter Connection Cable | GT01-C30R2-25P | 3m | Between FXCPU communication special adapter and GOT [Between D-sub 25-pin connector and D-sub 9-pin] | - |
| Computer Link Connection Cable | GT09-C30R2-9P | 3m | Between serial communication module and GOT Between computer link module and GOT [Between D-sub 9-pin and D-sub 9-pin] | - |
| | GT09-C30R2-25P | 3m | Between serial communication module and GOT Between computer link module and GOT [Between D-sub 25-pin and D-sub 9-pin] | - |

### USB Cable

| Product Name | Model Number | Cable Length | Specifications | Stocked Item |
|---|---|---|---|---|
| Data Transfer Cable | GT09-C30USB-5P | 3m | Between personal computer (screen design software) and GOT [Between USB-A and USB Mini-B] | S |

### Mounting Hardware

| Model Number | Specifications | Stocked Item |
|---|---|---|
| D808D197G53 | GS2110-WTBD-N | S |
| K21H70500007 | GS2107-WTBD-N | - |
| K01H70500292 | GS2512-WXTBD | - |