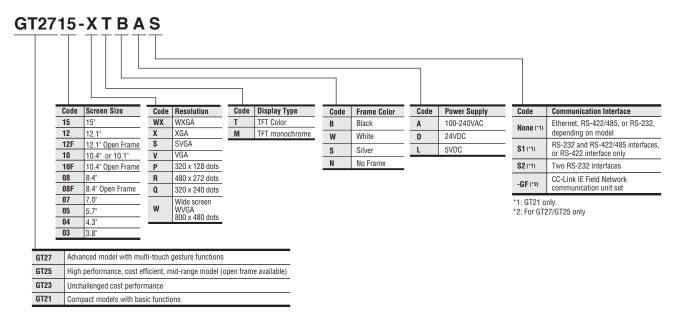
GT27 Model

GOT2000 Overview



GOT2000 Series General Specifications

| Model Number | GT27, GT25, GT23 | | | GT21 | | | | | |
|------------------------------|--|---|--------------|--|-------------------|---------------------|--|--|--|
| Operating Ambient Temp. (*1) | 0 to 55°C (*2) | | | 0 to 55°C (horizontal installation), 0 to 50°C (vertical installation) | | | | | |
| Storage Ambient Temperature | -20°C to 60°C | | | | | | | | |
| Operating Ambient Humidity | 10 to 90%RH, no cor | ndensation | | 10 to 90%RH, no condensation (*2) | | | | | |
| Storage Ambient Humidity | 10 to 90%RH, no cor | ndensation | | 10 to 90%RH, no | condensation (*2) | | | | |
| | | | Frequency | Acceleration | Half Amplitude | Sweep Count | | | |
| | Conforming to JIS | Under intermittent | 5 to 8.4Hz | - | 3.5mm | 10 times each in X, | | | |
| Vibration Resistance | B 3502 and IEC | vibration | 8.4 to 150Hz | 9.8m/s ² | - | Y and Z directions | | | |
| | 61131-2 | Under continuous vibration | 5 to 8.4Hz | - | 1.75mm | | | | |
| | | | 8.4 to 150Hz | 4.9m/s ² | - | | | | |
| Impact Resistance | Compliant with JIS B | Compliant with JIS B 3502, IEC 61131-2 (147 m/s² (15G), 3 times each in X, Y and Z directions) | | | | | | | |
| Operating Atmosphere (*6) | No greasy fumes, cor | No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage) | | | | | | | |
| Operating Altitude (*3) | 2000m (6562 ft) or le | ess | | | | | | | |
| Installation Location | Inside control panel | | | | | | | | |
| Overvoltage Category (*4) | II or less | | | | | | | | |
| Pollution Degree (*5) | 2 or less | | | | | | | | |
| Cooling Method | Self-cooling | | | | | | | | |
| Grounding | Grounding with a ground resistance of 100Ω or less. If impossible, connect the ground cable to the control panel. Grounding with a ground resistance of 100Ω or less by a ground cable that has a cross-sectional area of 0.14 to 1.5 mm² (single wire), 0.14 to 1.0 mm² (stranded wire), 0.25 to 0.5 mm² (rod terminal with an insulation sleeve) impossible, connect the ground cable to the control panel. | | | | | | | | |

Notes:

- The operating ambient temperature includes the temperature inside the enclosure of the control panel to which the GOT is installed.
- (GT27, GT25) When any of the following units is mounted, the maximum operating ambient temperature must be 5 °C lower than the one described in the general specifications: multimedia unit (GT27-MMR-Z), MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BR13), CC-Link communication unit (GT15-J61BT13) (GT23, GT21) If the ambient temperature exceeds 40°C, the absolute humidity must not exceed 90% RH at 40 °C.
- Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- 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
- Il applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.

 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a
- temporary conductivity caused by condensation shall be expected depending on the conditions. (GT25, GT27 only) Some models have ANSI/ISA 12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2 No.213-M1987) hazardous locations. For the details, please contact your local
- 7. 5 VDC type does not require grounding.

GT27 Series GT27 Base Units

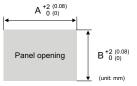
| Category | Model Number | Screen Size | Resolution | Display Type | Frame Color | Power Supply | Stocked Item |
|----------|--------------|-------------|------------------|--------------|-------------|--------------|--------------|
| GT2715 | GT2715-XTBA | 15" | XGA (1024 x 768) | | Black | 100-240VAC | S |
| 012713 | GT2715-XTBD | 13 | AGA (1024 x 708) | | DIdUK | 24VDC | S |
| | GT2712-STBA | | | | Black | 100-240VAC | S |
| GT2712 | GT2712-STBD | 12.1" | SVGA (800 x 600) | | DIdUK | 24VDC | S |
| U12/12 | GT2712-STWA |] 12.1 | SVGA (800 X 600) | TFT Color | White | 100-240VAC | S |
| | GT2712-STWD | | | | | 24VDC | S |
| | GT2710-STBA | | SVGA (800 x 600) | | | 100-240VAC | S |
| | GT2710-STBD | 10.4" | | | Black | 24VDC | S |
| GT2710 | GT2710-VTBA | | VGA (640 x 480) | | | 100-240VAC | S |
| u12/10 | GT2710-VTBD | | | | | 24VDC | S |
| | GT2710-VTWA | | | | White | 100-240VAC | S |
| | GT2710-VTWD | | | | VVIIILE | 24VDC | S |
| | GT2708-STBA | | SVGA (800 x 600) | | | 100-240VAC | S |
| GT2708 | GT2708-STBD | 8.4" | 3VAA (800 X 000) | | | 24VDC | S |
| G12700 | GT2708-VTBA | 0.4 | VGA (640 x 480) | | Black | 100-240VAC | S |
| | GT2708-VTBD | | VGA (040 X 400) |] | | 24VDC | S |
| GT2705 | GT2705-VTBD | 5.7" | VGA (640 x 480) | | | 24VDC | S |

GT27 GOT + CC-Link IE Field Network Communication Unit Sets

| Category | Model Number | Screen Size | Resolution | Display Type | Frame Color | Power Supply | Stocked Item |
|----------|----------------|-------------|--------------------|-----------------------------|-------------|--------------|--------------|
| GT2715 | GT2715-XTBA-GF | 15" | XGA (1024 x 768) | _ | Black | 100-240VAC | S |
| U12/13 | GT2715-XTBD-GF | | AGA (1024 x 766) | | DIACK | 24VDC | S |
| | GT2712-STBA-GF | | | | Black | 100-240VAC | S |
| GT2712 | GT2712-STBD-GF | 12.1" | SVGA (800 x 600) | | Diack | 24VDC | S |
| 012/12 | GT2712-STWA-GF | 12.1 | SVGA (800 X 800) | - TFT Color 65536 colors | White | 100-240VAC | S |
| | GT2712-STWD-GF | | | | | 24VDC | S |
| | GT2710-STBA-GF | | SVGA (800 x 600) | | | 100-240VAC | S |
| | GT2710-STBD-GF | 10.4" | | | Black | 24VDC | S |
| GT2710 | GT2710-VTBA-GF | | VGA (640 x 480) | | | 100-240VAC | S |
| 012710 | GT2710-VTBD-GF | | | | | 24VDC | S |
| | GT2710-VTWA-GF | | | | White | 100-240VAC | S |
| | GT2710-VTWD-GF | | | | VVIIILG | 24VDC | S |
| | GT2708-STBA-GF | 8.4" | SVGA (800 x 600) | | | 100-240VAC | S |
| GT2708 | GT2708-STBD-GF | | 3 V GA (000 X 000) | | | 24VDC | S |
| G12700 | GT2708-VTBA-GF | | VGA (640 x 480) | | Black | 100-240VAC | S |
| | GT2708-VTBD-GF | | | | | 24VDC | S |
| GT2705 | GT2705-VTBD-GF | 5.7" | VGA (640 x 480) | | | 24VDC | S |

GT27 Power Supply Specifications

| Model Number | | GT2715-XTBA | GT2712-STBA GT2712-STWA | GT2710-STBA GT2710-VTBA GT2710-VTWA | GT2708-STBA GT2708-VTBA | GT2715-XTBD | GT2712-STBD GT2712-STWD | GT2710-STBD GT2710-VTBD GT2710-VTWD | GT2708-STBD GT2708-VTBD | GT2705-VTBD | | | |
|--------------------------------------|---------------------------------|---|--|---|----------------------------|---|----------------------------|---|----------------------------|--|--|--|--|
| Input Power Sup | ply Voltage | 100 to 240VAC | (+10%, -15%) | | | 24VDC (+25%, | -20%) | | | | | | |
| Input Power Supply Frequency | | 50/60Hz ±5% | | | | - | | | | - | | | |
| | Maximum Load | 51W or less | 44W or less | 41W or less | 41W or less | 48W or less | 45W or less | 42W or less | 39W or less | 30W or less | | | |
| Power | Stand Alone | 25W | 19W | 17W | 15W | 23W | 15W | 15W | 13W | 7W | | | |
| Consumption | Stand Alone w/ Backlight Off | 10W | 10W | 10W | 10W | 8W | 8W | 8W | 8W | 5W | | | |
| Inrush Current | | 40A or less (3ms, ambient temperature 25°C, maximum load) | 60A or less (2n maximum load) | ns, ambient temp | erature 25°C, | 5A or less (20ms, ambient temperature 25°C, maximum load) | | | | 69A or less (1 ms, ambient temperature: 25°C, under the maximum | | | |
| Permissible Insta Failure Time | antaneous | Within 20ms (1 | hin 20ms (100VAC or more) | | | | Within 10ms | | | | | | |
| Noise Resistance | 9 | | 500Vp-p, noise uency 25 to 60H | width 1µs by nois z | se simulator | Noise voltage 500Vp-p, noise width 1 μ s by noise simulator with noise frequency 25 to 60Hz | | | | | | | |
| Withstand Voltage | | 1500VAC for 1 ground | minute between | power supply ter | minal and | 350VAC for 1 minute between power supply terminal and ground | | | | | | | |
| Insulation Resist | ance | 10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground) | | | | | | | | | | | |
| Applicable Wire Size 0.75 to 2 [mm²] | | | | | | | | | | | | | |
| Clamp Terminal | | Clamp terminal | Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A | | | | | /2-N3A | | | | | |
| Tightening Torqu Block's Terminal | | 0.5 to 0.8 [N·m | 1] | | | | | | | | | | |



| Screen Size | Model | Α | В | Remarks |
|-------------|--------|---------------|---------------|--|
| 15" | GT2715 | 383.5 (15.10) | 282.5 (11.12) | Same dimensions as GT1695, GT1595 |
| 12.1" | GT2712 | 302 (11.89) | 228 (8.98) | Same dimensions as GT1685, GT1585, A985GOT |
| 10.4" | GT2710 | 289 (11.38) | 200 (7.87) | Same dimensions as GT167_M, GT157_M, A97_MGOT |
| 8.4" | GT2708 | 227 (8.94) | 176 (6.93) | Same dimensions as GT1665, GT1565 |
| 5.7" | GT2705 | 153 (6.02) | 121 (4.76) | Same dimensions as GT1655, GT155_, GT145_, GT115_, GT105_, F940G0T |

GT27 Performance Specifications

| Model Numb | oer | GT2715-XTBA GT2715-XTBD | | GT2712-STWA GT2712-STWD | | GT2710-VTBA GT2710-VTBD | GT2710-VTWA GT2710-VTWD | | | GT2705-VTBD | | |
|--------------------------------|----------------------------|--|---|--|---|---|----------------------------|---|--|--|--|--|
| | Туре | TFT color LCD | | | | | | | | | | |
| | Screen Size | 15" | 12.1" | | 10.4" | 10.4" | | 8.4" | | 5.7" | | |
| | Resolution (Dots) | 1024 x 768 XGA | 800 x 600 SVG | A | | 16/0 \ / 180 \ //2 \ \ | | 800 x 600 SVGA | 640 x 480 VGA | | | |
| | Display Size (W x H) mm | 304.1 x 228.1 | 246.0 x 184.5 | | 211.2 x 158.4 | | | 170.9 x 128.2 | | 115.2 x 86.4 | | |
| Display Section (*1, *2) | Number of Characters | 16-dot standard font: 64 chars. x 48 lines (2-byte) 12-dot standard font: 85 chars. x 64 lines (2-byte) | (2-byte) | d font: 50 chars. d font: 66 chars. | | 16-dot standard font: 40 chars. x 30 lines (2-byte) 12-dot standard font: 53 chars. x 40 lines (2-byte) | | 16-dot standard font: 50 chars. x 37 lines (2-byte) 12-dot standard font: 66 chars. x 50 lines (2-byte) | 16-dot standard font: 40 chars. x 30 lines (2-byte) 12-dot standard font: 53 chars. x 40 lines (2-byte) | | | |
| | Display Colors | 65536 colors | • | | | | | | | | | |
| | Intensity Adjustment | 32-level adjustn | nent | | | | | | | | | |
| Dealdinks | Туре | LED (not replac | | | | | | | | | | |
| Backlight | Life | | | Time for display | intensity reaches | 50% at ambien | t temperature of | 25°C) (*4) | | | | |
| | Туре | Analog resistive | | | | | | | | | | |
| Touch Panel | | | Anaiog resisuve nim Minimum 2 x 2 dots (per key) (*7) | | | | | | | | | |
| (*3) | Simultaneous Press | Maximum 2 poi | | • / | | | | | | | | |
| () | Life | | or more (operati | | | | | | | | | |
| Panel Color | LIIG | Black | or more (operati | White | Black | | White | Black | | | | |
| r allei Gului | Detection Distance | Diack | | AAIIIIG | Diack | | AAIIIIG | Diack | | | | |
| Human | (m) | 1m | ifananaa habuuaan | human badu | - | | | | | | | |
| Sensor | Detection Temperature | and ambient air | ference between : 4°C or higher | numan body | - | | | | | | | |
| Memory | User Memory Capacity | Memory for storage (ROM): 57MB, Memory for operation (RAM): 128MB 32MB, Memory for operation | | | | | | | | storage (ROM) 32MB, Memor | | |
| | Life (No. of Writings) | 100000 times | | | | | | | | | | |
| Internal Cloc | | | (ambient temper | rature 25°C) | | | | | | | | |
| | Туре | GT11-50BAT litl | | uturo 20 0) | | | | | | | | |
| Battery | Life | | (ambient tempe | rature 25°C) | | | | | | | | |
| | RS-232 | | | 0/57600/38400/ | 10200/0600/490 | Ohne Connector | chana: D cub 0 | nin (mala) | | | | |
| | RS-422/485 | | | 0/57600/38400/ | | | | | | | | |
| | | | | SE-T/100BASE-1 | | | | piii (ieiiiaie) | | | | |
| | Ethernet | | | | | | | 0-1- /f | / f > | | | |
| | USB (Host) | 2ch (front face/ | | | ce) 2ch (front face/rear face) 1ch (rear face) 2ch (front face/rear cops Connector shape: USB-A | | | | | | | |
| Duille in | | | | | | | dah (usau fasa) | 1ch (front face | ` | | | |
| Built-in Interface | USB (Device) | 1ch (front face) | | 1ch (rear face) | | | 1ch (rear face) | Ten (from face |) | | | |
| IIIICIIACC | , , | Maximum transfer speed: High-Speed 480Mbps Connector shape: USB Mini-B | | | | | | | | | | |
| | SD Card | 1ch SDHC com | pliant (maximum | 1 32GB) | | | | | | | | |
| | Extension Interface (*6) | | tion unit/option | unit mounting | | | | | | | | |
| | Auxiliary Extension I/F | For option unit | | | | | | | | - | | |
| | Side Interface | For communication unit mounting | | | | | | | | | | |
| Buzzer Outpu | ut | | ne, tone length a | | | | | | | | | |
| Power LED | | | 2 colors (blue, o | | | | | | | | | |
| Protective Co | onstruction | Front: IP67F (*5 | 5,*8) In control ¡ | oanel: IP2X | | | | | | | | |
| External Dim (W x H x D) i | | 397 x 300 x 60 316 x 246 x 52 | | | 303 x 218 x 52 | | 241 x 194 x 52 | 2 | 167 x 139 x 60 | | | |
| Panel Cutout | t (W x H) mm | 383.5 x 282.5 | 302 x 228 | | 289 x 200 | | | 227 x 176 | | 153 x 121 | | |
| Weight (kg) | unting Brackets | 4.5 | 2.4 | | 2.1 | | | 1.5 | | 1.0 | | |
| | oftware Package | GT Works3 Version1.112S or later | GT Works3 Ver | sion1.100E or la | ter | | | | | GT Works3 Version1.130L or later | | |

Notes:

- 1. As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged. Flickering may occur due to vibration, shock, or the display colors.
- When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications: Material: polyacetal resin Tip radius: 0.8 mm or more
- To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

 To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.) Note that the structure does not
- guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

 When using a GT2705 with multiple devices such as extension units, a barcode reader, and an RFID controller, the total amount of current must be within the maximum amount of current supplied by the GT2705. For the details, please refer to an appropriate GOT2000 Series manual. 6.
- 7. The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. Key size: 16 x 16 dots or larger Distance between keys: 16 dots or more 8. The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.