



GS21 General Description

GS2110-WTBD-N GS2107-WTBD-N

Thank you for purchasing the GOT SIMPLE Series.

Prior to use, please read both this manual and the detailed manual thoroughly to fully understand the product.



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MODEL	GS21-N-U-GD-CE
IB(NA)-0800654CHN-D(2511)MEAMC	

●SAFETY PRECAUTIONS●
(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

**WARNING**

Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

**CAUTION**

Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the  CAUTION level may lead to a serious accident according to the circumstances.

Always follow the instructions of both levels because they are important to personal safety.

Please save this manual to make it accessible when required and always forward it to the end user.

[DESIGN PRECAUTIONS]

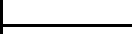
**WARNING**

- Some failures of the GOT or cable may keep the outputs on or off. Some failures of a touch panel may cause malfunction of the input objects such as a touch switch. An external monitoring circuit should be provided to check for output signals which may lead to a serious accident. Not doing so can cause an accident due to false output or malfunction.
- Do not use the GOT as the warning device that may cause a serious accident. An independent and redundant hardware or mechanical interlock is required to configure the device that displays and outputs serious warning. Not doing so can cause an accident due to false output or malfunction.
- When the GOT detects its backlight failure, the GOT disables the input operation on the touch switch(s). Thus, operators cannot operate the GOT with touches. The GOT backlight failure can be checked with a system signal of the GOT.
- Even when the display section has dimmed due to a failure of the liquid crystal section or the backlight on the GOT, the input operation of the touch switches may still be enabled. This may cause an incorrect operation of the touch switches. For example, if an operator assumes that the display section has dimmed because of the screen save function and touches the display section to cancel the screen save, a touch switch may be activated. The GOT backlight failure can be checked with a system signal of the GOT.
- The display section of the GOT is an analog-resistive type touch panel. Simultaneous pressing of two or more areas on the display section may activate the switch between those areas. Do not press two or more areas simultaneously on the display section. Doing so may cause an accident due to incorrect output or malfunction.
- When programs or parameters of the controller (such as a PLC) that is monitored by the GOT are changed, be sure to shut off the power of the GOT suspended and power on the GOT again. Not doing so can cause an accident due to false output or malfunction.
- If a communication fault (including cable disconnection) occurs during monitoring on the GOT, communication between the GOT and PLC CPU is suspended and the GOT becomes inoperative. A system where the GOT is used should be configured to perform any significant operation to the system by using the switches of a device other than the GOT on the assumption that a GOT communication fault will occur. Not doing so can cause an accident due to false output or malfunction.

[DESIGN PRECAUTIONS]

**WARNING**

- To maintain the security (confidentiality, integrity, and availability) of the GOT and the system against unauthorized access, DoS¹ attacks, computer viruses, and other cyberattacks from unreliable networks and devices via network, take appropriate measures such as firewalls, virtual private networks (VPNs), and antivirus solutions. Mitsubishi Electric shall have no responsibility or liability for any problems involving GOT trouble and system trouble by unauthorized access, DoS attacks, computer viruses, and other cyberattacks. ¹ DoS: A denial-of-service (DoS) attack disrupts services by overloading systems or exploiting vulnerabilities, resulting in a denial-of-service (DoS) state.

**CAUTION**

- Do not bundle the control and communication cables with main-circuit, power or other wiring. Run the above cables separately from such wiring and keep them a minimum of 100mm apart. Not doing so noise can cause a malfunction.
- Do not press the GOT display section with a pointed material as a pen or driver. Doing so can result in a damage or failure of the display section.
- When the GOT is connected to the Ethernet network, the available IP address is restricted according to the system configuration.
 - When multiple GOTs are connected to the Ethernet network: Do not set the IP address (192.168.3.18) for the GOTs and the controllers in the network.
 - When a single GOT is connected to the Ethernet network: Do not set the IP address (192.168.3.18) for the controllers except the GOT in the network. Doing so can cause the IP address duplication. The duplication can negatively affect the communication of the device with the IP address (192.168.3.18). The operation at the IP address duplication depends on the devices and the system.
- Turn on the controllers and the network devices to be ready for communication before they communicate with the GOT. Failure to do so can cause a communication error on the GOT.
- When the GOT is subject to shock or vibration, or some colors appear on the screen of the GOT, the screen of the GOT might flicker.

[MOUNTING PRECAUTIONS]

**WARNING**

- Be sure to shut off all phases of the external power supply used by the system before mounting or removing the GOT main unit to/from the panel. Not doing so can cause the unit to fail or malfunction.

CAUTION

- Use the GOT in the environment that satisfies the general specifications described in this manual. Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.
- When mounting the GOT to the control panel, tighten the mounting screws in the specified torque range (0.36N·m to 0.48N·m) with a Phillips-head screwdriver No.2. Undertightening can cause the GOT to drop, short circuit or malfunction. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or the GOT.
- Remove the protective film of the GOT. When the user continues using the GOT with the protective film, the film may not be removed.
- Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.
- Do not use the GOT in an environment with oil or chemicals. Doing so may cause failure or malfunction due to the oil or chemical entering into the GOT.

[WIRING PRECAUTIONS]

**WARNING**

- Be sure to shut off all phases of the external power supply used by the system before wiring. Failure to do so may result in an electric shock, product damage or malfunctions.

CAUTION

- Please make sure to ground FG terminal of the GOT power supply section by applying 100Ω or less which is used exclusively for the GOT. Not doing so may cause an electric shock or malfunction.
- Correctly wire the GOT power supply section after confirming the rated voltage and terminal arrangement of the product. Not doing so can cause a fire or failure.
- Tighten the terminal screws of the GOT power supply section in the specified torque range (0.5N·m to 0.6N·m). Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or the GOT.
- Exercise care to avoid foreign matter such as chips and wire offcuts entering the GOT. Not doing so can cause a fire, failure or malfunction.
- Plug the communication cable into the GOT interface or the connector of the connected unit, and tighten the mounting screws and the terminal screws in the specified torque range. Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

[TEST OPERATION PRECAUTIONS]

**WARNING**

- Before performing the test operations of the user creation monitor screen (such as turning ON or OFF bit device, changing the word device current value, changing the settings or current values of the timer or counter, and changing the buffer memory current value), read through the manual carefully and make yourself familiar with the operation method. During test operation, never change the data of the devices which are used to perform significant operation for the system. False output or malfunction can cause an accident.

[STARTUP/MAINTENANCE PRECAUTIONS]

**WARNING**

- When power is on, do not touch the terminals. Doing so can cause an electric shock or malfunction.
- Before starting cleaning or terminal screw retightening, always switch off the power externally in all phases. Not doing so can cause the unit to fail or malfunction. Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

CAUTION

- Do not disassemble or modify the unit. Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of the unit directly. Doing so can cause a unit malfunction or failure.
- The cables connected to the unit must be run in ducts or clamped. Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables or can cause a malfunction due to a cable connection fault.
- When unplugging the cable connected to the unit, do not hold and pull from the cable portion. Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not drop the module or subject it to strong shock. A module damage may result.
- Before touching the unit, always touch grounded metals, etc. to discharge static electricity from human body, etc. Not doing so can cause the unit to fail or malfunction.

[TOUCH PANEL PRECAUTIONS]

**CAUTION**

- For the analog-resistive film type touch panels, normally the adjustment is not required. However, the difference between a touched position and the object position may occur as the period of use elapses. When any difference between a touched position and the object position occurs, execute the touch panel calibration.
- When any difference between a touched position and the object position occurs, other object may be activated. This may cause an unexpected operation due to incorrect output or malfunction.

[PRECAUTIONS WHEN THE DATA STORAGE IS IN USE]

**WARNING**

- If the SD card mounted on drive A of the GOT is removed while the GOT is accessed, processing for the GOT might be interrupted about for 20 seconds. The GOT cannot be operated during this period. The functions that run in the background including a screen updating, alarm, logging, scripts, and others are also interrupted. Since this interruption makes an impact to the system operation, it might cause failure. After inhibiting access to the SD card on the GOT utility screen, check that the SD card access LED is off and remove the SD card.

CAUTION

- If the data storage mounted on the GOT is removed while the GOT is accessed, the data storage and files are damaged. To remove the data storage from the GOT, check that the access to the data storage in SD card access LED, the system signal, and others is not performed.
- When removing the SD card from the GOT, make sure to support the SD card by hand as it may pop out. Failure to do so may cause the SD card to drop from the GOT, resulting in a failure or break.
- Before removing the USB device from the GOT, follow the procedure for removal on the utility screen of the GOT. After the successful completion dialog is displayed, remove the USB device by hand carefully. Failure to do so may cause the USB device to drop from the GOT, resulting in a failure or break.

1. SPECIFICATIONS

1.1 General Specifications

Item		Specifications				
Operating ambient temperature ¹		0 to 50°C				
Storage ambient temperature		-20 to 60°C				
Operating/Storage ambient humidity		10% RH to 90% RH, non-condensing ²				
Vibration resistance	Conforms to IEC 61131-2		Frequency	Acceleration	Half-amplitude	Sweep Count
		Under intermittent vibration	5 to 8.4Hz	--	3.5mm	101times each in X, Y and Z directions
			8.4 to 150Hz	9.8m/s ²	--	
			Under continuous vibration	5 to 8.4Hz	--	
	8.4 to 150Hz	4.9m/s ²	--	--		
Shock resistance	Conforms to IEC 61131-2 (147m/s ² , 3 times each in the X, Y, and Z directions)					
Operating atmosphere	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)					
Operating altitude ³	2000m (6562ft) max.					
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 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more. If impossible, connect the ground cable to the control panel.					
Type rating	UL Type 1 ⁶					

¹: Includes the temperature inside the enclosure of the control panel on which the GOT is installed.

²: If the ambient temperature exceeds 40°C, the absolute humidity must not exceed 90% RH at 40°C.

³: 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.

⁴: 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 rated voltage of 300V is 2500V.

⁵: 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.

⁶: This is for use on a flat surface of a Type 1 enclosure.

1.2 Performance Specifications

Item		Specifications	
Display section ^{1,2)}	Type	GS2110-WTBD-N	GS2107-WTBD-N
	Screen size	TFT color liquid crystal display	
	Resolution	WVGA: 800 × 480 dots	
	Display size	W222(8.74) × H132(5.22) [mm] (inch)	W154(6.06) × H85.9(3.38) [mm] (inch)
	Display character	16-dot standard font: 50 characters × 30 rows (two-byte characters) 12-dot standard font: 66 characters × 40 rows (two-byte characters)	
	Display color	65536 colors	
	Brightness	32-level adjustment	
	Backlight ³⁾	LED-type (no replacement required)	
	Type	Analog-resistive film type	
	Key size	Minimum 2 × 2 dots ⁴⁾ (per key)	
Touch panel ⁴⁾	Number of points touched simultaneously	Simultaneous 2-point presses prohibited (Only one point can be touched.) ⁵⁾	
	Life	1 million times (operating force 0.98N max.)	
Memory	C drive	Flash memory (Internal) (15MB), for storing project data, OS	
		Life (Number of write times) 100000 times	

Item	Specifications	
	GS2110-WTBD-N	GS2107-WTBD-N
RS-422/485	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9 pins (Female) Application: For communicating with a controller Terminating resistor: 330 Ω, 110 Ω, OPEN (Selectable by the terminating resistor setting switch.) ¹⁾	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9 pins (Male) Application: For communication with a controller or barcode reader For PC connection (Project data read/write, FA transparent function)
Built-in interface	RS-232C Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9 pins (Male) Application: For communication with a controller or barcode reader For PC connection (Project data read/write, FA transparent function)	RS-232C Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9 pins (Male) Application: For communication with a controller or barcode reader For PC connection (Project data read/write, FA transparent function)
Ethernet	Data Transfer method: 100BASE-TX, 10BASE-T, 1ch Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X Application: For communication with a controller For PC connection (Project data read/write, FA transparent function)	Data Transfer method: 100BASE-TX, 10BASE-T, 1ch Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X Application: For communication with a controller For PC connection (Project data read/write, FA transparent function)
USB (Device)	1 channel (rear face) USB version: USB1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B Application: For PC connection (Project data read/write, FA transparent function)	1 channel (rear face) USB version: USB1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B Application: For PC connection (Project data read/write, FA transparent function)
SD card	Conforms to the SD standard, 1ch Supported memory card: SDHC memory card, SD memory card Application: Project data read/write, logging data save	Conforms to the SD standard, 1ch Supported memory card: SDHC memory card, SD memory card Application: Project data read/write, logging data save
Buzzer output	Single tone (LONG/SHORT/OFF adjustable)	
Protective structure	IP65F (only the front part of the panel) ^{2,6)}	
External dimensions	W272(10.71) × H214(8.43) × D56(2.21) [mm] (inch)	W206(8.11) × H155(6.11) × D50(1.97) [mm] (inch)
Panel cutting dimensions	W258(10.16) × H200(7.88) [mm] (inch)	W191(7.52) × H137(5.40) [mm] (inch)
Weight (excluding a fitting)	Approx. 1.3 (2.9) [kg] (lb)	Approx. 0.9 (2.0) [kg] (lb)
Compatible software package (version of GT Designer3)	Version1.250L or later	

¹: Bright dots (always lit) and dark dots (unlit) may appear on a liquid crystal display panel. It is impossible to completely avoid this symptom, as the liquid crystal display comprises of a great number of display elements. Flickers and partial discoloration may be generated on the liquid crystal display panel due to individual differences of panels. Please note that these phenomena appear due to its characteristic and are not caused by product defect.

²: Flickering may occur due to vibration, shock, or the display colors.

³: To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

⁴: 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: 0.8mm or more

⁵: If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not press two or more areas simultaneously on the touch panel.

⁶: Note that this does not guarantee all users' operation environment. The GOT may not be used in an environment where the GOT is exposed to oil or chemicals for a long time, or where oil mist fills the air.

⁷: Minimum size of a key that can be arranged.

To ensure safe use of the product, the following settings are recommended.
Key size: 16 × 16 dots or larger
Distance between keys: 16 dots or more

⁸: The suffix "F" of "IP65F" is a symbol that indicates protection rate against oil. It is described in the Appendix of JIS C 0920 of the Japanese Industrial Standards.

⁹: For the GOT multi-drop connection, set the terminating resistor setting switch of the GOT according to the connection type.
For details on the GOT multi-drop connection, refer to the following.
→GOT2000 Series Connection Manual (Mitsubishi Electric Products) For GT Works3 Version1

1.3 Power Supply Specifications

Item	Specifications	
	GS2110-WTBD-N	GS2107-WTBD-N
Input power supply voltage	24VDC (+10% -15%), ripple voltage 200mV or less	24VDC (+10% -15%), ripple voltage 200mV or less
Power consumption	7.6W (317mA/24V) or less	6.5W (271mA/24V) or less
At backlight off	3.8W (158mA/24V) or less	3.8W (158mA/24V) or less
	Inrush current	17A or less (6ms, 25°C, at the maximum load)
Permissible instantaneous power failure time	Within 5ms	
Noise immunity	Conforms to IEC61000-4-2, 2kV (power supply line)	
Dielectric withstand voltage	350VAC for 1 minute (across power supply terminals and earth)	
Insulation resistance	500VDC across power terminals and earth, 10 MΩ or more by an insulation resistance tester	

2. NOTIFICATION OF CE MARKING

The following products have shown compliance through direct testing (to the identified standards) and design analysis (forming a technical construction file) to the European Directive for Electromagnetic Compatibility when used as directed by the appropriate documentation.

- This product is designed for use in industrial applications
- Authorized representative in the EU and the UK: Mitsubishi Electric do Brasil Comercio e Servicos Ltda. Avenida Adelino Cardana, 293, 21 and, Bethaville, Barueri SP, Brazil Tel: +55-11-4689-3000

Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany		
- Type: Graphic operation terminal		
- Models: GOT SIMPLE series		
Standard	Remark	
EN61131-2 : 2007 Programmable controllers - Equipment, requirements and tests	EMI	Compliance with all relevant aspects of the standard. (Radiated Emissions)
	EMS	Compliance with all relevant aspects of the standard. (ESD, RF electromagnetic field, EFTB, Surge, RF conducted disturbances and Power frequency magnetic field)

For more details please contact your local Mitsubishi Electric sales site.
For details of CE marking, refer to the following.
→GOT SIMPLE series User's Manual

3. COMPLIANT WITH THE UKCA MARKING

Requirements for compliance with the UKCA marking are the same with the EC Directives (CE marking).

[DISPOSAL PRECAUTIONS]

**CAUTION**

- When disposing of this product, treat it as industrial waste.

[TRANSPORTATION PRECAUTIONS]

**CAUTION**

- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of this manual, as they are precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation.
- When fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine are used for disinfecting and protecting wooden packaging from insects, they cause malfunction when entering our products. Please take necessary precautions to ensure that remaining materials from fumigant do not enter our products, or treat packaging with methods other than fumigation (heat method). Additionally, disinfect and protect wood from insects before packing products.

Associated Manuals

The following manuals are relevant to this product. When these loose manuals are required, please consult with our local distributor.

Manual name	Contents	Manual Number
GT Works3 Installation Instructions	Installation Instructions	BCN-P5999-0066
GOT SIMPLE Series User's Manual ¹⁾	Describes the GOT SIMPLE series hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices	JY997D52901
GT Designer3 (GOT2000) Screen Design Manual ¹⁾ (sold separately)	Describes methods of the GT Designer3 basic operation for drawing, transmitting data to GOT SIMPLE series, and specifications and settings of the object functions used in GT Designer3	SH-081220ENG
GOT2000 Series Connection Manual (Mitsubishi Products) for GT Works3 Version1 ¹⁾ (sold separately)	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods	SH-081197ENG
GOT2000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 Version1 ¹⁾	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods	SH-081198ENG
GOT2000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 Version1 ¹⁾	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods	SH-081199ENG
GOT2000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 Version1 ¹⁾	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods	SH-081200ENG

¹ The manual in PDF-format is included in the GT Works3 products.
For details of a PLC to be connected, refer to the PLC user's manual respectively.

Referenced Standard
GB/T 15969.2(Requirement of Chinese standardized law)

Bundled Items	
Model Name	Specifications
GS2110-WTBD-N	10" [800 × 480 dots], TFT color liquid crystal, 65536 colors 24VDC, Memory capacity: 15MB, built-in Ethernet interface, built in RS-232 interface, built in RS-422/485 interface
GS2107-WTBD-N	7" [800 × 480 dots], TFT color liquid crystal, 65536 colors 24VDC, Memory capacity: 15MB, built-in Ethernet interface, built in RS-232 interface, built in RS-422/485 interface
Bundled item	
Mounting fitting	4
GS21 General Description (This manual)	1

Warranty

Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric products; and to other duties.

▲ For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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