MITSUBISHI ELECTRIC *Changes for the Better*　　**Global**

Factory Automation

Human Machine Interfaces MELHMI-GOT

GS2110-WTBD-N　Specifications

Basic specifications

Model	GS2110-WTBD-N
Product name	GS21 model
Series name	GOT SIMPLE
Model name	GS21

Performance specifications

Display section *1	Display device	TFT color LCD
	Screen size	10" Wide
	Resolution	WVGA: 800 x 480 dots
	Display size	222 (W) x 132.5 (H) mm (8.74 (W) x 5.22 (H) inch) (Horizontal format)
	Number of displayed characters	16-dot standard font: 50 characters x 30 lines (two-byte characters) 12-dot standard font: 66 characters x 40 lines (two-byte characters) (Horizontal format)
	Display color	65536 colors
	Brightness adjustment	32 levels
	Backlight	LED (not replaceable)
	Backlight color	White
Touch panel *2	Type	Analog resistive film
	Key size	Minimum 2 x 2 dots (per key)
	Simultaneous press	Not available (Only 1 point can be touched.)
	Life	1 million touches or more (operating force: 0.98 N or less)
Human sensor	Detection length	−
	Detection temperature	−
User memory	Flash memory	Capacity	Flash memory (Internal) : 15 MB
		Life (number of write times)	100000 times
		Application	for storing project data, OS

Built-in interface	RS-232	Number of channel	1 channel
		Transmission speed	115200, 57600, 38400, 19200, 9600, 4800 bps
		Connector shape	D-sub 9-pin (male)
	RS-422/485	Number of channel	1 channel
		Transmission speed	115200, 57600, 38400, 19200, 9600, 4800 bps
		Connector shape	D-sub 9-pin (female)
		Terminating resistor	330 Ω, 110 Ω, OPEN (Selectable by the terminating resistor setting switch.)
	RS-422/232	Number of channel	—
		Transmission speed	—
		Connector shape	—
	RS-422	Number of channel	—
		Transmission speed	—
		Connector shape	—
		Terminating resistor	—
	Ethernet	Number of channel	1 channel
		Data transfer method	100BASE-TX, 10BASE-T
		Connector shape	RJ45 (modular jack) AUTO MDI/MDI-X
	Bus interface	Type	—
		Number of channel	—
	RGB interface		—
	Printer interface		—
	USB (host)	Number of channel	—
		Maximum transfer rate	—
		Connector shape	—
	USB (device)	Number of channel	1 channel (rear face)
		Maximum transfer rate	Full-Speed 12 Mbps
		Connector shape	USB Mini-B
	SD memory card		1 channel, SDHC compliant (maximum 32 GB)
	CF card interface		—
	PC card interface		—
			—

	Option function board interface	_
	Memory board interface	Single tone (LONG/SHORT/OFF adjustable)
Buzzer sound		_
LED specifications	POWER LED	Standard
Installation method		Black
Panel color		Front: IP65F
Protective structure*3		272 (W) x 214 (H) x 56 (D) mm (10.71 (W) x 8.43 (H) x 2.21 (D) inch)
External dimensions		258 (W) x 200 (H) mm (10.16 (W) x 7.88 (H) inch)
Panel cut dimensions		1.3 kg
Weight (excluding a fitting)		

(*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)The touch panel is an analog-resistive type. Simultaneous pressing of two or more areas on the touch panel may activate the switch between those areas. Do not press two or more areas simultaneously on the touch panel.

(*3)Note that this does not guarantee all users' operation environment. In addition, the product may not be used in environments under exposition of oil or chemicals for a long period of time, or in environments filled with oil-mist.

General specifications

Ambient operating temperature		0°C to 50 °C
Ambient storage temperature		-20°C to 60 °C
Ambient operating humidity		10% RH to 90% RH, non-condensing
Ambient storage humidity		10% RH to 90% RH, non-condensing
Vibration resistance	Approval standards	Conforms to IEC 61131-2*4
	Under intermittent vibration	[Frequency: 5 to 8.4 Hz] Half amplitude: 3.5 mm Sweep count: 10 times in each X, Y, or Z direction [Frequency: 8.4 to 150 Hz] Acceleration: 9.8 m/s^2 Sweep count: 10 times in each X, Y, or Z direction
	Under continuous vibration	[Frequency: 5 to 8.4 Hz] Half amplitude: 1.75 mm [Frequency: 8.4 to 150 Hz] Acceleration: 4.9 m/s^2
Shock resistance		Conforms to IEC 61131-2 (147 m/s^2 (15 G), 3 times in each X, Y, or Z direction)*4
Operating atmosphere		No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)
Operating altitude		2000 m or less
Installation location		Inside control panel
Overvoltage category		II or less
Pollution degree		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.

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Remarks	Ambient operating humidity	If the ambient temperature exceeds 40°C, the absolute humidity must not exceed 90% RH at 40°C.
	Ambient storage humidity	If the ambient temperature exceeds 40°C, the absolute humidity must not exceed 90% RH at 40°C.
	Operating altitude	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.
	Overvoltage category	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 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.
	Pollution degree	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.

(*4)The definition of 1 G has been changed from 9.8 m/s^2 to 10 m/s^2 in IEC 61131-2 ED.3. The product was tested by using the former definition, 1 G = 9.8 m/s^2.

Specifications of the power supply section

Power supply voltage		24 V DC (+10%, -15%), ripple voltage 200 mV or less
Power supply frequency		—
Maximum apparent power		—
Power consumption	Main unit	7.6 W (317 mA / 24 V) or less
	Main unit (backlight OFF)	3.8 W (158 mA / 24 V) or less
Inrush current		17 A or less (6 ms, 25 °C, at the maximum load)
Permissible instantaneous power failure time		Within 5 ms
Noise immunity		Conforms to IEC61000-4-4, 2kV (power supply line)
Withstand voltage		350 V AC for 1 minute (across power supply terminals and earth)
Insulation resistance		500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester
Applicable wire		0.75 mm^2 to 2 mm^2
Applicable solderless terminal		Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A
Applicable tightening torque (for terminal block terminal screws)		0.5 N・m to 0.8 N・m

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