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[Issue No.] GOT-A-0133-C

[Title] Information and precautions on replacing GOT1000 with GOT2000 or GS (GT10 model → GT21 model) (for overseas)

[Date of Issue] December 2018 (Ver. C: December 2020)

[Relevant Models] GT2107, GT2104, GT2103, GS2107, GT105□, GT104□, GT1030, GT1020

Thank you for your continued support of Mitsubishi Electric Graphic Operation Terminal (GOT).

We released GOT2000 and GS series with high functions and performance as an alternative of GOT1000 series in September 2013 (GOT2000 series) and in December 2013 (GS series).

We highly recommend that you replace the GOT1000 with the GOT2000 or GS for using new sophisticated features.

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#### 1. Requests for customers

We released GOT2000 and GS series with high functions and performance as an alternative of GOT1000 series in September 2013 (GOT2000 series) and in December 2013 (GS series). We highly recommend that you replace the GOT1000 with the GOT2000 or GS for using new sophisticated features. For the replacement models, refer to "Recommended replacement models" in Chapter 2 below.

#### 2. Recommended replacement models

However, depending on usage conditions, another model maybe used. Examine your existing system and select a replacement model. During replacement, refer to the GOT2000 Series User's Manual (Hardware) SH-081194ENG or GS21 General Description IB-0800523ENG.

GT105□ →GT2107-W and GS2107-W Replacement model list

Used models (GOT1000)	Recommended replacement models (GOT2000)	Panel cutout compatibility	Use attachment	Cable compatibility	Use conversion cable
GT1055-QSBD(-C) GT1050-QBBD(-C)	GT2107-WTBD GT2107-WTSD	× (153 x 121 →180.5 x 133.5)	-	0	Not required
	GS2107-WTBD	× (153 x 121 →191 x 137)	-	0	Not required

GT104□ → GT2104-R Replacement model list

Used models (GOT1000)	Recommended replacement models (GOT2000)	Panel cutout compatibility	Use attachment	Cable compatibility	Use conversion cable
GT1045-QSBD GT1040-QBBD	GT2104-RTBD	x (130 x 103 →118 x 92)	GT21-04RATT-40	×	(1) For RS-422 connection: GT10-C02H-9SC (2) For RS-232 connection: Not available*1

<sup>\*1</sup> For connection to each controller, refer to the applicable manual from the following.

<sup>→</sup> GOT2000 Series Connection Manual (Mitsubishi Electric Products) For GT Works3 Version1 (SH-081197ENG)
GOT2000 Series Connection Manual (Non-Mitsubishi Electric Products 1) For GT Works3 Version1 (SH-081198ENG)
GOT2000 Series Connection Manual (Non-Mitsubishi Electric Products 2) For GT Works3 Version1 (SH-081199ENG)
GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) For GT Works3 Version1 (SH-081200ENG)

GT1030 →GT2104-R and GT2103-P Replacement model list

Used models (GOT1000)	Recommended replacement models (GOT2000)	Panel cutout compatibility	Use attachment	Cable compatibility	Use conversion cable
GT1030-HBD GT1030-HWD*1 GT1030-HBDW	GT2104-RTBD	× (137 x 66 →118 x 92)	-	0	Not required
GT1030-HWDW*1	GT2103-PMBDS	× (137 x 66 →105 x 66)	-	0	Not required
GT1030-HBD2 GT1030-HWD2*1 GT1030-HBDW2	GT2104-RTBD	× (137 x 66 →118 x 92)	-	0	Not required
GT1030-HWDW2*1	GT2103-PMBDS2	× (137 x 66 →105 x 66)	-	0	Not required
GT1030-HBL GT1030-HWL*1 GT1030-HBLW	GT2104-RTBD	× (137 x 66 →118 x 92)	-	0	Not required
GT1030-HWLW*1	GT2103-PMBLS	× (137 x 66 →105 x 66)	-	0	Not required

<sup>\*1</sup> The model has a white panel. The recommended replacement model has a black panel.

GT1020 → GT2103-P Replacement model list

Used models (GOT1000)	Recommended replacement models (GOT2000)	Panel cutout compatibility	Use attachment	Cable compatibility	Use conversion cable
GT1020-LBD GT1020-LWD*1 GT1020-LBDW GT1020-LWDW*1	GT2103-PMBDS	0	Not required	0	Not required
GT1020-LBD2 GT1020-LWD2*1 GT1020-LBDW2 GT1020-LWDW2*1	GT2103-PMBDS2	0	Not required	0	Not required
GT1020-LBL GT1020-LWL*1 GT1020-LBLW GT1020-LWLW*1	GT2103-PMBLS	0	Not required	0	Not required

<sup>\*1</sup> The model has a white panel. The recommended replacement model has a black panel.

### 3. Hardware specifications comparison

### 3.1 GT105□-Q□BD and GT2107-WT□D comparison

		Used models		Recommended replacement models
tem		GT1055-QSBD(-C)	GT1050-QBBD(-C)	GT2107-WTBD,GT2107-WTSD
Conformity standard		CE (EMC), UL/cUL, and KC		←
	Туре	STN color liquid crystal	STN monochrome (white/blue) liquid crystal	TFT color liquid crystal
:	Screen size	5.7"		7.0"
	Resolution	320 × 240 dots		800 × 480 dots
	Display size	W115 (4.53) × H86 (3.39) [mm] (inch)		W152.4 (6.00) × H91.44 (3.60) [mm] (inch)
	Display character	16-dot standard font: 20 characters ×15 lines		16-dot standard font: 50 characters × 30 lines
	, ,	12-dot standard font: 26 o	characters × 20 lines	12-dot standard font: 66 characters × 40 lines
	Display color	256 colors	Monochrome (white/blue) 16 scales	65536 colors
	Display angle	Left/Right: 50 degrees, Top: 50 degrees, Bottom: 70 degrees (Horizontal format, hardware version L or later)	Left/Right: 45 degrees, Top: 20 degrees, Bottom: 40 degrees (Horizontal format)	Nondisclosure
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD only	380[cd/m <sup>2</sup> ]	260[cd/m <sup>2</sup> ]	Nondisclosure
	Intensity adjustment	-		32-level adjustment
	Life	Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)		-
	Maximum number of screens that can be registered	1024 screens		2048 screens
	Color	Cold cathode fluorescent	lamp	LED
		(Not replaceable)		(Not replaceable)
	Function	Backlight OFF		←
		Screen save time setting	can be set.	
	Life	Approx. 75000 h (operating ambient temperature: 25 °C,	Approx. 54000 h (operating ambient temperature: 25 °C,	Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
		display brightness:	display brightness: 50%)	2.1g.1.1000. 00 /0/

			Used models		Recommended replacement models
Item			GT1055-QSBD(-C)	GT1050-QBBD(-C)	GT2107-WTBD,GT2107-WTSD
Τοι	Method		Matrix resistive film touch panel		Analog resistive film touch panel
Touch panel	Number of touch		Maximum 50 keys/screen (Number of touch keys		Maximum 100 keys/screen (Number of touch keys
pane	keys		include Window screen.)		include Window screen.)
<u>w</u>	Key size		Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultane	ous press	Max. 2 points		Not allowed
	Life		1 million times or more (or max.)	perating force 0.98N	←
≤e	User mem	nory	Built-in flash memory (3 M	1B or less)	Built-in flash memory (15 MB or less)
Memory	Life (Number of times)	of write	100000 times		<b>←</b>
Bat	Туре		GT11-50BAT type lithium battery		←
Battery	Life		Approx. 5 years (operating 25 °C)	g ambient temperature:	←
Bu:	RS-422/ Specifi		1 channel		←
팤	485	cations	Connector shape: D-sub 9	9-pin (Female)	
inte			Application: PLC commun	ication	
Built-in interface		Cables	oles Example: GT01-C30R4-8P		←
Œ	RS-232	Specifi	1 channel		1 channel
		cations	Connector shape: D-sub 9	9-pin (Male)	Connector shape: D-sub 9-pin (Male)
			Application: Personal com	puter connection, PLC	Application: Personal computer connection*1, PLC
			communication, ba	rcode reader connection,	communication, barcode reader connection,
			or serial printer cor	nection	or serial printer connection
		Cables	Example: GT01-C30R2-6	P	←
	Ethernet	Specifi	None		1 channel
		cations			Data transfer method: 100BASE-TX, 10BASE-T
					Connector shape: RJ-45 (modular jack)
	USB (Dev	ice)	1 channel, maximum trans	sfer rate: Full-Speed 12	←
			Mbps		
			Connector shape: USB M	ini-B (back)	
			Application: Personal com	puter connection	
	Memory Id	oader	The separately sold GT10	-50FMB	The separately sold SD card (SDHC card supported
5			0: 1 / // 0.10/ 0.10/	DT/ OFF	(max. 32 GB))
Buzzer output			Single tone (LONG/ SHOI	•	<b>←</b>
POWER LED			Emission color: 2 colors (green, orange)		None
Protective structure			Equivalent to IP67F (front		← W4402 (7.44) 11442 (7.50) P40 (4.00) (1.41)
Exterr	nal dimensio	ons	W164 (6.46) × H135 (5.31 (inch)	1) × D56 (2.20) [mm]	W189 (7.44) × H142 (5.59) × D48 (1.89) [mm] (inch)
Panel	cutting dim	ensions	W153 (6.02) × H121 (4.76	6) [mm] (inch)	W180.5 (7.11) × H133.5 (5.26) [mm] (inch)
Weigh brack	nt (excludino ets)	g mounting	0.7kg		0.7kg

		Used models		Recommended replacement models	
Item		GT1055-QSBD(-C)	GT1050-QBBD(-C)	GT2107-WTBD,GT2107-WTSD	
Comp	patible software	GT Designer3 Version1.00A or later/ GT Designer2 Version2.84N or later		GT Works3 Version1.170C or later	
	tation	Horizontal or vertical		<b>←</b>	
Produ	uct installation spacing	p,54 reference		p,54 reference	
Instal	lation position	p,56 reference		p,56 reference	
Powe	r supply voltage	24 V DC (+10%, -15%)		←	
Power consumption	Backlight ON 9.84W or less		9.36W or less	11.3W or less	
nsumption	Backlight OFF	4.32W or less 4.32W or less		7.0W or less	
OS	1	Installed before shipment		Installed by user	

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

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### 3.2 GT105 -Q BD and GS2107-WTBD comparison

		Used models		Recommended replacement models
		GT1055-QSBD(-C)	GT1050-QBBD(-C)	GS2107-WTBD
Conformity standard		CE (EMC, RoHS), UL/cUL, and KC		←
Display section	Туре	STN color liquid crystal	STN monochrome (white/blue) liquid crystal	TFT color liquid crystal
ctior	Screen size	5.7"		7.0"
ر	Resolution	320 × 240 dots		800 × 480 dots
	Display size	W115 (4.53) × H86 (3.39)	[mm] (inch)	W154 (6.06) × H85.9 (3.38) [mm] (inch)
	Display character	16-dot standard font: 20 d	characters ×15 lines	16-dot standard font: 50 characters × 30 lines
		12-dot standard font: 26 c	haracters × 20 lines	12-dot standard font: 66 characters × 40 lines
	Display color	256 colors	Monochrome (white/blue) 16 scales	65536 colors
	Display angle	Left/Right: 50 degrees, Top: 50 degrees, Bottom: 70 degrees (Horizontal format, hardware version L or later)	Left/Right: 45 degrees, Top: 20 degrees, Bottom: 40 degrees (Horizontal format)	Nondisclosure
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD only	380[cd/m²]	260[cd/㎡]	Nondisclosure
	Intensity adjustment	-		32-level adjustment
	Life	Approx. 50000 h. (operating ambient temper 1/5)	rature: 25 °C, contrast:	-
	Maximum number of screens that can be registered	1024 screens		2048 screens
Ва	Color	Cold cathode fluorescent	lamp	LED
acklight		(Not replaceable)		(Not replaceable)
弃	Function	Backlight OFF		←
		Screen save time setting	can be set.	
	Life	Approx. 75000 h (operating ambient temperature: 25 °C, display brightness: 50%)	Approx. 54000 h (operating ambient temperature: 25 °C, display brightness: 50%)	Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)

			Used models		Recommended replacement models
Item			GT1055-QSBD(-C)	GT1050-QBBD(-C)	GS2107-WTBD
Τοι	Method		Matrix resistive film touch panel		Analog resistive film touch panel
ich r	Number of touch		Maximum 50 keys/screen (Number of touch keys		Maximum 100 keys/screen (Number of touch keys
Touch panel	keys		include Window screen.)		include Window screen.)
<u>v</u>	Key size		Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultaneous press		Max. 2 points		Not allowed
	Life		1 million times or more (o max.)	perating force 0.98N	←
<u> </u>	User mem	nory	Built-in flash memory (3 N	MB or less)	Built-in flash memory (9 MB or less)
Memory	Life (Number of times)	of write	100000 times		←
В.	Туре		GT11-50BAT type lithium	battery	-
Battery	Life Approx. 5 years (operating ambient temperature:  25 °C)		-		
Вп	RS-422/	Specifi	1 channel (RS-422/485)		1 channel (RS422)
Ë:	485	cations	Connector shape: D-sub 9-pin (Female)		Connector shape: D-sub 9-pin (Female)
Built-in interface			Application: PLC commur	nication	Application: PLC communication
rfac	Cables		Example: GT01-C30R4-8	Р	←
Φ	RS-232	Specifi	1 channel		1 channel
		cations	Connector shape: D-sub 9-pin (Male)		Connector shape: D-sub 9-pin (Male)
			Application: Personal con	nputer connection, PLC	Application: Personal computer connection*1, PLC
			communication, ba	rcode reader connection,	communication, barcode reader connection,
			or serial printer cor	nection	or serial printer connection
		Cables	Example: GT01-C30R2-6	P	←
	Ethernet	Specifi	None		1 channel
		cations			Data transfer method: 100BASE-TX, 10BASE-T
					Connector shape: RJ-45 (modular jack)
	USB (Dev	ice)	1 channel, maximum tran	sfer rate: Full-Speed 12	←
			Mbps		
			Connector shape: USB M	,	
			Application: Personal con	•	
	Memory Id	oader	The separately sold GT10	)-50FMB	The separately sold SD card (SDHC card supported
				DT/055 # / / / )	(max. 32 GB))
Buzzer output			Single tone (LONG/ SHO		← N
POWER LED			Emission color: 2 colors (	<b>3</b>	None
	ctive structu		Equivalent to IP67F (front	,	Equivalent to IP65F (front section)
∟xterr	nal dimensi	ons	W164 (6.46) × H135 (5.3 <sup>2</sup> (inch)	1) × D56 (2.20) [mm]	W206 (8.11) × H155 (6.10) × D50 (1.97) [mm] (inch)
Panel	cutting dim	ensions	W153 (6.02) × H121 (4.76	6) [mm] (inch)	W191 (7.52) × H137 (5.39) [mm] (inch)
Weigh brack	nt (excludino ets)	g mounting	0.7kg		0.9kg

		Used models		Recommended replacement models	
Item		GT1055-QSBD(-C)	GT1050-QBBD(-C)	GS2107-WTBD	
Comp	atible software	GT Designer3 Version1.0	0A or later/	GT Works3 Version1.104J or later	
packa	age	GT Designer2 Version2.8	4N or later		
Orien	tation	Horizontal or vertical		←	
Produ	ıct installation spacing	p,54 reference		p,54 reference	
Instal	lation position	p,56 reference		p,56 reference	
Powe	r supply voltage	24 V DC (+10%, -15%)		←	
Power consumption	Backlight ON	9.84W or less	9.36W or less	6.5W or less	
nsumption	Backlight OFF	4.32W or less 4.32W or less		3.8W or less	
OS	1	Installed before shipment		Installed by user	

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

### 3.3 GT104 - Q BD and GT2104-RTBD comparison

		Used models		Recommended replacement models
Item		GT1045-QSBD	GT1040-QBBD	GT2104-RTBD
Confo	ormity standard	CE (EMC, RoHS), UL/cUL, and KC		←
Display section	Туре	STN color liquid crystal	STN monochrome (white/blue) liquid crystal	TFT color liquid crystal
ction	Screen size	4.7"		4.3"Wide
ر	Resolution	320 × 240 dots		480 × 272 dots
	Display size	W96 (3.78) × H72 (2.83)	[mm] (inch)	W95.0 (3.74) × H53.8 (2.12) [mm] (inch)
	Display character	16-dot standard font: 20		16-dot standard font: 30 characters × 17 lines 12-dot standard font: 40 characters × 22 lines
	Display color	256 colors	Monochrome (white/blue) 16 scales	65536 colors
	Display angle	Left/Right: 50 degrees, Top: 40 degrees, Bottom: 70 degrees (Horizontal format)	Left/Right: 45 degrees, Top: 20 degrees, Bottom: 40 degrees (Horizontal format)	Nondisclosure
	Contrast adjustment	16-level adjustment	,	-
	Intensity of LCD only	150[cd/m <sup>2</sup> ]	300[cd/m²]	Nondisclosure
	Intensity adjustment	-		32-level adjustment
	Life	Approx. 50000 h.  (operating ambient temperature: 25 °C, contrast: 1/5)		-
	Maximum number of screens that can be registered	1024 screens		2048 screens
Backlight	Color	LED (Not replaceable)		<b>←</b>
ght	Function	Backlight OFF Screen save time setting	can be set.	<b>←</b>
	Life	-		Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
Д	Method	Matrix resistive film touch	n panel	Analog resistive film touch panel
Touch panel	Number of touch	Maximum 50 keys/screer	n (Number of touch keys	Maximum 100 keys/screen (Number of touch keys
pane	keys	include Window screen.)		include Window screen.)
<u>w</u>	Key size	Minimum 16 ×16 dots (pe	er key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (comax.)	pperating force 0.98N	←

			Used models		Recommended replacement models
Item			GT1045-QSBD	GT1040-QBBD	GT2104-RTBD
Memory	User mem Life(Numb times)		Built-in flash memory (3 M 100000 times	MB or less)	Built-in flash memory (9 MB or less) ←
Battery	Туре		GT11-50BAT type lithium	battery	←
tery	Life		Approx. 5 years (operating 25 °C)	g ambient temperature:	<b>←</b>
Built-in interface	RS-422/ 485 (side)	Specifi cations Cables	1 channel Connector shape: D-sub 9 Application: PLC commun Example: GT01-C30R4-8	nication	1 channel Connector shape: Connector terminal block 9 pins Application: PLC communication  Example: GT10-C02H-9SC + GT01-C30R4-8P  GT10-C30R4-8PC
	RS-232	Specifi cations	1 channel Connector shape: D-sub, Application: Personal com communication, ba or serial printer cor	nputer connection, PLC rcode reader connection,	1 channel Connector shape: Connector terminal block 9 pins (back) Application: Personal computer connection*1, PLC communication, barcode reader connection, or serial printer connection
	Ethernet	Cables Specifi cations	Example: GT01-C30R2-6 None	Р	Example: GT10-C30R2-6P  1 channel (10BASE-T/100BASE-TX)  Connector shape: RJ-45 (modular jack)  Application: Personal computer connection, PLC communication
	USB (Device)		1 channel, maximum trans Mbps Connector shape: USB M Application: Personal com	ini-B (back)	<b>←</b>
	Memory Id	oader	The separately sold GT10-50FMB		The separately sold SD card (SDHC card supported (max. 32 GB))
Buzze	er output		Single tone (LONG/ SHO	RT/ OFF adjustable)	<b>←</b>
Prote	ctive structu	re	Equivalent to IP67F (front	section)	←
Exter	nal dimensio	ons	W139 (5.47) × H112 (4.41	) × D41 (1.61) [mm] (inch)	W128 (5.04) × H102 (4.02) × D40 (1.57) [mm] (inch)
Pane	l cutting dim	ensions	W130 (5.12) × H103 (4.06	6) [mm] (inch)	W118 (4.65) × H92 (3.62) [mm] (inch)
Weigl	Weight (excluding mounting		0.45kg		0.4kg
	brackets)		<b>ATA</b>		
	oatible softw	are	GT Designer3 Version1.0		GT Works3 Version1.122C or later
_ packa			GT Designer2 Version2.8	bP or later	,
	itation uct installatio	n enacina	p,54 reference		p,54 reference
	lation Position		p,56 reference		p,56 reference
	er supply vol		24 V DC (+10%, -15%)		<b>←</b>

		Used models		Recommended replacement models
Item		GT1045-QSBD	GT1040-QBBD	GT2104-RTBD
Power con	Backlight ON	3.6W or less		4.4W or less
onsumption	Backlight OFF	2.9W or less		2.9W or less
OS Installed before shipment			Installed by user	

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

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### 3.4 GT1030-H□D(W) and GT2104-RTBD comparison

		Used models		Recommended replacement models
Item		GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT2104-RTBD
Conformity standard		CE (EMC, RoHS), UL/cUI		←
	Туре	STN monochrome (white/Black) liquid crystal		TFT color liquid crystal
spla	Screen size	4.5"		4.3"Wide
Display section	Resolution	288 ×96 dots		480 × 272 dots
ction	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W95.0 (3.74) × H53.8 (2.12) [mm] (inch)
_	Display character	16-dot standard font: 18 c	characters ×6 lines	16-dot standard font: 30 characters × 17 lines
		12-dot standard font: 24 c	characters ×8 lines	12-dot standard font: 40 characters × 22 lines
	Display color	Monochrome (white/Black	<b>(</b> )	65536 colors
	Display angle	Left/Right: 30 degrees, To	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment	ı	-
	Intensity of LCD	200[cd/m²]	500[cd/m²]	Nondisclosure
	only			
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h.		-
		(operating ambient tempe	rature: 25 °C, contrast:	
		1/5)		
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered			
Bac	Color	LED with 3 available	LED with 3 available	LED
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
¥		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	Backlight OFF
		and screen save time set	ting can be set.	Screen save time setting can be set.
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Touch panel	Method	Matrix resistive film touch		Analog resistive film touch panel
ch p	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
anel	keys	include Window screen.)		include Window screen.)
	Key size	Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

			Used models		Recommended replacement models	
Item			GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT2104-RTBD	
Me	User mem	nory	Built-in flash memory (1.5	MB or less)	Built-in flash memory (9 MB or less)	
Memory	Life (Number of times)	of write	100000 times		←	
Ва	Туре		GT11-50BAT type lithium	battery	←	
Battery	Life		Approx. 5 years (operatin 25 °C)	g ambient temperature:	←	
Built-in interface	RS-422/ 485 (side)	Specifi cations	1 channel Connector shape: Connector Sha	nication	<b>←</b>	
face		Cables	Example: GT10-C30R4-8PC		←	
	RS-232 (back)	Specifi cations	1 channel Connector shape: MINI D Application: Personal con barcode reader con connection	, , ,	1 channel  Connector shape: Connector terminal block 9 pins  Application: Personal computer connection*1, PLC  communication, barcode reader connection,  or serial printer connection	
		Cables	Example: GT01-C30R2-6P		Example: GT10-C30R2-6P	
	USB (Device)		Mounting the separately sold GT10-RS2TUSB-5S is required.		1 channel, maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B (back) Application: Personal computer connection	
	Memory lo	oader	The separately sold GT10	)-LDR	The separately sold SD card (SDHC card supported (max. 32 GB))	
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←	
Prote	ctive structu	ıre	Equivalent to IP67F (front section)		←	
Exter	nal dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm] (inch)		W128 (5.04) × H102 (4.02) × D40 (1.57) [mm] (inch	
Panel	cutting dim	nensions	W137 (5.39) × H66 (2.60)	[mm] (inch)	W118 (4.65) × H92 (3.62) [mm] (inch)	
Weigh brack	nt (excluding ets)	g mounting	0.3kg		0.4kg	
Comp packa	atible softw ige	/are	GT Designer3 Version1.1	8U or later	GT Works3 Version1.122C or later	
Orien	tation		Horizontal or vertical		←	
Produ	ıct installatio	on spacing	p,55 reference		p,55 reference	
Instal	lation positi	on	p,57 reference		p,57 reference	
Powe	r supply vol	ltage	24 V DC (+10%, -15%)		←	
Power consumption	Backlight  Backlight		2.2W or less 1.7W or less		4.4W or less 2.9W or less	
os	<u> </u>		Installed before shipment		Installed by user	

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

### 3.5 GT1030-H□D(W) and GT2103-PMBDS comparison

		Used models		Recommended replacement models
Item		GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT2103-PMBDS
Conformity standard		CE (EMC, RoHS), UL/cUI		←
	Туре	STN monochrome (white/Black) liquid crystal		TFT monochrome (white/Black) liquid crystal
spla	Screen size	4.5"		3.8"
y se	Resolution	288 ×96 dots		320 ×128 dots
Display section	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W89.0 (3.50) × H35.6 (1.40) [mm] (inch)
ر	Display character	16-dot standard font: 18 c	haracters ×6 lines	16-dot standard font: 20 characters × 8 lines
		12-dot standard font: 24 c	characters ×8 lines	12-dot standard font: 26 characters × 10 lines
	Display color	Monochrome (white/Black	<b>(</b> )	Monochrome (white/Black) 32 scales
	Display angle	Left/Right: 30 degrees, To	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment	ı	-
	Intensity of LCD	200[cd/m²] (Green)	500[cd/m²] (White)	Nondisclosure
	only			
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h.		-
	(operating ambient t		rature: 25 °C, contrast:	
		1/5)		
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered		I	
Вас	Color	LED with 3 available	LED with 3 available	5 colors LED (white, green, pink, orange, and red)
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
Ħ		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl		←
		and screen save time set	ting can be set.	
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Touch panel	Method	Matrix resistive film touch		Analog resistive film touch panel
h pa	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
anel	keys	include Window screen.)		include Window screen.)
	Key size	Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points	noroting force 0.00N	Not allowed
	Life	1 million times or more (o	perating force 0.98N	←
-		max.)		

Item C			Used models		Recommended replacement models
		GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT2103-PMBDS	
록	User memory		Built-in flash memory		Built-in flash memory (3 MB or less)
Memory	Life (Number of times)	•	100000 times	,	<b>←</b>
B.	Туре		GT11-50BAT type lithium battery		-
Battery	Life		Approx. 5 years (oper 25 °C)	ating ambient temperature:	-
Built-in interface	RS-422/ 485 (side)	Specifi cations	1 channel Connector shape: Con Application: PLC com	nnector terminal block 9 pins munication	←
erfac		Cables	Example: GT10-C30R	4-8PC	←
ĕ	RS-232	Specifi	1 channel		1 channel
	(back)	cations	Application: Personal	NI DIN 6 pins (Female) computer connection, connection, or serial printer	Connector shape: MINI DIN 6 pins (Female)  Application: Personal computer connection*1, PLC communication, barcode reader connection, or serial printer connection
	Cables Example: GT01-C30R2-6P		←		
	USB (Device)		Mounting the separately sold GT10-RS2TUSB-5S is required.		1 channel, maximum transfer rate: Full-Speed 12     Mbps     Connector shape: USB Mini-B (back)     Application: Personal computer connection
	Memory loader		The separately sold GT10-LDR		The separately sold SD card (SDHC card supported (max. 32 GB))*2
Buzze	r output		Single tone (LONG/ SHORT/ OFF adjustable)		<b>←</b>
Protec	ctive structu	ire	Equivalent to IP67F (front section)		←
Exterr	nal dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm] (inch)		W113 (4.45) × H74 (2.91) × D27 (1.06) [mm] (inch
	cutting dim it (excluding ets)		W137 (5.39) × H66 (2.60) [mm] (inch) 0.3kg		W105 (4.13) × H66 (2.60) [mm] (inch) 0.2kg
Comp packa	atible softw ge	are	GT Designer3 Version	11.18U or later	GT Works3 Version1.112S or later
Orient	ation		Horizontal or vertical		←
Produ	ct installation	on spacing	p,55 reference		p,55 reference
Install	ation positi	on	p,57 reference		p,57 reference
Power supply voltage		tage	24 V DC (+10%, -15%	b)	←
Power cor	Backlight	ON	2.2W or less		1.9W or less
Power consumption	Backlight OFF		1.7W or less		1.3W or less

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)
\*2 The separately sold SD card unit (GT21-03SDCD) is required.

### 3.6 GT1030-H□D(W)2 and GT2104-RTBD comparison

		Used models		Recommended replacement models
Item		GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2104-RTBD
Conformity standard		CE (EMC, RoHS), UL/cUI	L, and KC	←
<u>D</u>	Туре	STN monochrome (white/black) liquid crystal		TFT color liquid crystal
spla	Screen size	4.5"		4.3"Wide
y se	Resolution	288 ×96 dots		480 × 272 dots
Display section	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W95.0 (3.74) × H53.8 (2.12) [mm] (inch)
_	Display character	16-dot standard font: 18 c	characters × 6 lines	16-dot standard font: 30 characters × 17 lines
		12-dot standard font: 24 c	characters × 8 lines	12-dot standard font: 40 characters × 22 lines
	Display color	Monochrome (white/black	3)	65536 colors
	Display angle	Left/Right: 30 degrees, To	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD	200[cd/m] (Green)	500[cd/m²] (White)	Nondisclosure
	only			
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)		-
	Maximum number of	1024 screens		2048 screens
	screens that can be	1		
	registered			
Ва	Color	LED with 3 available	LED with 3 available	LED
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
Ħ		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	Backlight OFF
		and screen save time set	ting can be set.	Screen save time setting can be set.
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Б	Method	Matrix resistive film touch	panel	Analog resistive film touch panel
Touch panel	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
oane	keys	include Window screen.)		include Window screen.)
<u>w</u>	Key size	Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

			Used models		Recommended replacement models
Item			GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2104-RTBD
	User men	nory	Built-in flash memory (1.	5 MB or less)	Built-in flash memory (9 MB or less)
Memory	Life (Number of times)	of write	100000 times		←
Ε.	Туре		GT11-50BAT type lithium battery		←
Batterv	Life		Approx. 5 years (operation 25 °C)	ng ambient temperature:	←
Б	RS-422/	Specifi	-		1 channel
Built-in interface	485 (side)	cations			Connector shape: Connector terminal block 9 pins Application: PLC communication
nter	()	Cables	-		Example: GT10-C30R4-8PC
Tac Tac	RS-232	Specifi	1 channel		-
(D	(side)	cations	•	ector terminal block 9 pins	
		Cables	Application: PLC commu Example: GT10-C30R2-		
	RS-232	Specifi	1 channel	OF .	1 channel
		cations	Connector shape: MINI I	OIN 6 pins (Female)	Connector shape: Connector terminal block 9 pins
	(back)	Cations	Application: Personal computer connection,		Application: Personal computer connection*1, PLC
				ler connection,	communication, barcode reader connection
				er connection	or serial printer connection
	Cables		Example: GT01-C30R2-6P		Example: GT10-C30R2-6P
	USB (Device)  Memory loader		Mounting the separately	sold GT10-RS2TUSB-5S	1 channel, maximum transfer rate: Full-Speed 12
			is required.		Mbps
					Connector shape: USB Mini-B (back)
					Application: Personal computer connection
			The separately sold GT10-LDR		The separately sold SD card (SDHC card supporte (max. 32 GB))
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←
Prote	ctive structu	ıre	Equivalent to IP67F (front section)		←
Exterr	nal dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm] (inch)		W128 (5.04) × H102 (4.02) × D40 (1.57) [mm] (incl
Panel	cutting dim	ensions	W137 (5.39) × H66 (2.60	) [mm] (inch)	W118 (4.65) × H92 (3.62) [mm] (inch)
Weigh brack	nt (excluding	g mounting	0.3kg		0.4kg
	atible softw	are	GT Designer3 Version1.	18U or later	GT Works3 Version1.122C or later
Orient	ation		Horizontal or vertical		←
	ct installation	on spacing	p,55 reference		p,55 reference
Install	ation position	on	p,57 reference		p,57 reference
	r supply vol		24 V DC (+10%, -15%)		<b>←</b>
	Backlight		1.9W or less		4.4W or less
Power consumption	Backlight OFF		1.2W or less		2.9W or less

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

### 3.7 GT1030-H□D(W)2 and GT2103-PMBDS2 comparison

		Used models		Recommended replacement models
Item		GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2103-PMBDS2
Confo	ormity standard	CE (EMC, RoHS), UL/cU	L, and KC	←
D.	Туре	STN monochrome (white/black) liquid crystal		TFT monochrome (white/black) liquid crystal
spla	Screen size	4.5"		3.8"
y se	Resolution	288 ×96 dots		320 × 128 dots
Display section	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W89.0 (3.50) × H35.6 (1.40) [mm] (inch)
_	Display character	16-dot standard font: 18 d	characters × 6 lines	16-dot standard font: 20 characters × 8 lines
		12-dot standard font: 24 c	characters × 8 lines	12-dot standard font: 26 characters × 10 lines
	Display color	Monochrome (white/black	ζ)	Monochrome (white/black) 32 scales
	Display angle	Left/Right: 30 degrees, Top: 20 degrees, Bottom: 30 degrees		Nondisclosure
	Contrast adjustment	(Horizontal format)  16-level adjustment		_
	Intensity of LCD only	200[cd/m²] (Green)	500[cd/㎡] (White)	Nondisclosure
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)		-
	Maximum number of screens that can be	1024 screens		2048 screens
	registered	LED with O well-like	LED with O well-like	Factor LED (atite many sint and a discount of the second o
Backlight	Color	LED with 3 available colors (green, orange, and red) (Not replaceable)	LED with 3 available colors (white, pink, and red) (Not replaceable)	5 colors LED (white, green, pink, orange, and red) (Not replaceable)
	Function	Status control (color, on/fl		<b>←</b>
	Life	-		Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
7	Method	Matrix resistive film touch	panel	Analog resistive film touch panel
Touch panel	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
pan	keys	include Window screen.)	<u> </u>	include Window screen.)
<u>e</u>	Key size	Minimum 16 ×16 dots (pe	er key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (o max.)	perating force 0.98N	<b>←</b>

Item			Used models		Recommended replacement models
			GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2103-PMBDS2
<u> </u>	User mem	nory	Built-in flash memory (1.5	MB or less)	Built-in flash memory (3 MB or less)
Memory	Life		100000 times		←
<	(Number	of write			
	times)				
D a	Туре		GT11-50BAT type lithium	battery	-
Ratterv	Life		Approx. 5 years (operating	ng ambient temperature:	-
			25 °C)		
₽	RS-422/	Specifi	1 channel		←
<u></u> 	485	cations	Connector shape: Conne	ctor terminal block 9 pins	
j D	(side)		Application: PLC commun	nication	
Built-in interface		Cables	Example: GT10-C30R4-8	BPC	←
Ď	RS-232	Specifi	1 channel		1 channel
	(side)	cations	Connector shape: MINI D	OIN 6 pins (Female)	Connector shape: MINI DIN 6 pins (Female)
	,		Application: Personal con		Application: Personal computer connection*1, PL0
				nnection, or serial printer	communication, barcode reader connection
			connection		or serial printer connection
		Cables	Example: GT01-C30R2-6	SP	←
	USB (Device)		Mounting the separately sold GT10-RS2TUSB-5S		1 channel, maximum transfer rate: Full-Speed 12
			is required.		Mbps
					Connector shape: USB Mini-B (back)
					Application: Personal computer connection
	Memory loader		The separately sold GT10	∩J DR	The separately sold SD card (SDHC card support
			The separately sold of the	0-LDIX	(max. 32 GB))*2
Ruzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		(max. 32 Gb)) 2
	ctive structu	ıro	Equivalent to IP67F (front section)		<u>←</u>
	nal dimensi				W113 (4.45) × H74 (2.91) × D27 (1.06) [mm] (inch
Exteri	iai dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm]		W 113 (4.45) * H74 (2.91) * D27 (1.06) [min] (inci
<b>Dama</b> l		:	(inch)		W405 (4.42) :: LICC (2.00) [] (in al.)
	cutting dim		W137 (5.39) × H66 (2.60) [mm] (inch) 0.3kg		W105 (4.13) × H66 (2.60) [mm] (inch) 0.2kg
brack	,	ginounting	0.5kg		0.2ng
	atible softw	are	GT Designer3 Version1.1	8U or later	GT Works3 Version1.137T or later
packa	ige				
Orient	tation		Horizontal or vertical		←
Produ	ct installation	on spacing	p,55 reference		p,55 reference
Install	ation position	on	p,57 reference		p,57 reference
Powe	r supply vol	tage	24 V DC (+10%, -15%)		←
Power cor	Backlight	ON	1.9W or less		2.2W or less
Power consumption	Backlight	acklight OFF 1.2W or less		1.6W or less	

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)
\*2 The separately sold SD card unit (GT21-03SDCD) is required.

### 3.8 GT1030-H□L(W) and GT2104-RTBD comparison

		Used models		Recommended replacement models
Item		GT1030-HBL GT1030-HWL	GT1030-HBLW GT1030-HWLW	GT2104-RTBD
Confo	ormity standard	CE (EMC, RoHS), UL/cUI	_, and KC	←
<u>D</u>	Туре	STN monochrome (white/black) liquid crystal		TFT color liquid crystal
spla	Screen size	4.5"		4.3"Wide
y se	Resolution	288 ×96 dots		480 × 272 dots
Display section	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W95.0 (3.74) × H53.8 (2.12) [mm] (inch)
_	Display character	16-dot standard font: 18 c	haracters × 6 lines	16-dot standard font: 30 characters × 17 lines
		12-dot standard font: 24 c	haracters × 8 lines	12-dot standard font: 40 characters × 22 lines
	Display color	Monochrome (white/black	2)	65536 colors
	Display angle	Left/Right: 30 degrees, To	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD	200[cd/m] (Green)	500[cd/m²] (White)	Nondisclosure
	only			
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)		-
	Maximum number of	1024 screens		2048 screens
	screens that can be	1		
	registered			
Ва	Color	LED with 3 available	LED with 3 available	LED
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
Ħ		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	Backlight OFF
		and screen save time set	ing can be set.	Screen save time setting can be set.
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Б	Method	Matrix resistive film touch	panel	Analog resistive film touch panel
Touch panel	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
bane	keys	include Window screen.)		include Window screen.)
<u>w</u>	Key size	Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

Itam			Used models		Recommended replacement models
Item			GT1030-HBL GT1030-HWL	GT1030-HBLW GT1030-HWLW	GT2104-RTBD
Memory	User men Life (Number of times)	•	Built-in flash memory 100000 times	(1.5 MB or less)	Built-in flash memory (9 MB or less) ←
Ва	Туре		GT11-50BAT type lith	ium battery	←
Battery	Life		Approx. 5 years (oper 25 °C)	rating ambient temperature:	<b>←</b>
Built-in interface	RS-422/ 485 (side)	Specifi cations	-		1 channel Connector shape: Connector terminal block 9 pins Application: PLC communication
nteri	, ,	Cables	-		Example: GT10-C30R4-8PC
face	RS-422 (side)	Specifi cations	·	nnector terminal block 9 pins munication/power feeding	-
		Cables	Example: GT01-C30F		-
	RS-232 (back)	Specifi cations	1 channel Connector shape: MII Application: Personal barcode reader	NI DIN 6 pins (Female) computer connection, r connection, or serial printer	1 channel     Connector shape: Connector terminal block 9 pins     Application: Personal computer connection*1, PLC     communication, barcode reader connection,
	Cables USB (Device)		connection  Example: GT01-C30F  Mounting the separate is required.	R2-6P ely sold GT10-RS2TUSB-5S	or serial printer connection  Example: GT10-C30R2-6P  1 channel, maximum transfer rate: Full-Speed 12  Mbps  Connector shape: USB Mini-B (back)
			T	2740   22	Application: Personal computer connection
Memory loader			The separately sold GT10-LDR		The separately sold SD card (SDHC card supporte (max. 32 GB))
Buzze	er output		Single tone (LONG/ S	HORT/ OFF adjustable)	<b>←</b>
Protec	ctive structu	ıre	Equivalent to IP67F (f	ront section)	←
Exterr	nal dimensi	ons	W145 (5.71) × H76 (2 (inch)	.99) × D29.5 (1.16) [mm]	W128 (5.04) × H102 (4.02) × D40 (1.57) [mm] (inch
Panel	cutting dim	ensions	W137 (5.39) × H66 (2	60) [mm] (inch)	W118 (4.65) × H92 (3.62) [mm] (inch)
Weigh bracke	` '	g mounting	0.28kg		0.4kg
Compatible software package		GT Designer3 Version	n 1.18U or later	GT Works3 Version 1.122C or later	
Orient	tation		Horizontal or vertical		←
Produ	ct installation	on spacing	p,55 reference		p,55 reference
Installation position		p,57 reference		p,57 reference	
Power supply voltage		tage	5 V DC (+5%, -5%) P	ower from the PLC	24 V DC (+10%, -15%)
Power consumption	Backlight ON  Backlight OFF		1.1W or less		4.4W or less
sumption			0.6W or less		2.9W or less
		·	Installed before shipm		Installed by user

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

### 3.9 GT1030-H<sub>□</sub>L(W) and GT2103-PMBLS comparison

		Used models		Recommended replacement models
Item		GT1030-HBL GT1030-HBLW GT1030-HWLW		GT2103-PMBLS
Conformity standard		CE (EMC, RoHS), UL/cU	L, and KC	←
D:	Туре	STN monochrome (white	/black) liquid crystal	TFT monochrome (white/black) liquid crystal
spla	Screen size	4.5"		3.8"
y se	Resolution	288 ×96 dots		320 ×128 dots
Display section	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W 89.0 (3.50) × H 35.6 (1.40) [mm] (inch)
_	Display character	16-dot standard font: 18 d	characters × 6 lines	16-dot standard font: 20 characters × 8 lines
		12-dot standard font: 24 c	characters × 8 lines	12-dot standard font: 26 characters × 10 lines
	Display color	Monochrome (white/black	ζ)	Monochrome (white/black) 32 scales
	Display angle	Left/Right: 30 degrees, To degrees (Horizontal format)	pp: 20 degrees, Bottom: 30	Nondisclosure
	Contrast adjustment	16-level adjustment		
	Intensity of LCD only	200[cd/m²] (Green)	500[cd/m³] (White)	Nondisclosure
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h. (operating ambient tempe 1/5)	erature: 25 °C, contrast:	-
	Maximum number of screens that can be	1024 screens		2048 screens
	registered	150 310 311	155 31 0 311	5 1 150/13
Backlight	Color	LED with 3 available colors (green, orange, and red) (Not replaceable)	LED with 3 available colors (white, pink, and red) (Not replaceable)	5 colors LED (white, green, pink, orange, and red) (Not replaceable)
	Function	Status control (color, on/fl		-
	Life	-	,	Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
ъ	Method	Matrix resistive film touch	panel	Analog resistive film touch panel
Touch panel	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
pan	keys	include Window screen.)		include Window screen.)
<u>o</u>	Key size	Minimum 16 ×16 dots (pe	er key)	Minimum 2 × 2 dots (per key)
	Simultaneous press	Max. 2 points		Not allowed
	Life	1 million times or more (o max.)	perating force 0.98N	<b>←</b>

Item			Used models		Recommended replacement models
			GT1030-HBL GT1030-HBLW GT1030-HWLW		GT2103-PMBLS
Memory	User men Life (Number of times)		Built-in flash memory (1.5 MB or less) 100000 times		Built-in flash memory (3 MB or less) ←
Ba	Туре		GT11-50BAT type lithium	battery	-
Battery	Life		Approx. 5 years (operating 25 °C)	ng ambient temperature:	-
Built-in interface	RS-422 (side)	Specifi cations	1 channel Connector shape: Conne Application: PLC commu	ector terminal block 9 pins nication/power feeding	<b>←</b>
rface		Cables	Example: GT10-C30R4-8	BPC	←
•	RS-232 (back)	Specifi cations	1 channel Connector shape: MINI E Application: Personal cor barcode reader co connection		-
		Cables	Example: GT01-C30R2-6	6P	-
	USB (Dev	rice)	Mounting the separately is required.	sold GT10-RS2TUSB-5S	1 channel, maximum transfer rate: Full-Speed 12     Mbps     Connector shape: USB Mini-B (back)     Application: Personal computer connection
	Memory lo	oader	The separately sold GT10-LDR		-
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←
Prote	ctive structu	ıre	Equivalent to IP67F (fron	t section)	←
Exter	nal dimensi	ons	W145 (5.71) × H76 (2.99 (inch)	) × D29.5 (1.16) [mm]	W113 (4.45) × H74 (2.91) × D27 (1.06) [mm] (inch)
Panel	cutting dim	ensions	W137 (5.39) × H66 (2.60	) [mm] (inch)	W105 (4.13) × H66 (2.60) [mm] (inch)
Weigl brack	nt (excluding ets)	g mounting	0.28kg		0.2kg
	Compatible software package		GT Designer3 Version 1.18U or later		GT Works3 Version 1.112S or later
Orien	Orientation		Horizontal or vertical		←
Produ	Product installation spacing		p,55 reference		p,55 reference
Instal	Installation position		p,57 reference		p,57 reference
Powe	r supply vol	tage	5 V DC (+5%, -5%) Powe	er from the PLC	←
Power consumption	Backlight ON		1.1W or less		1.1W or less
sumption	Backlight OFF		0.6W or less		0.7W or less
os			Installed before shipmen	t	Installed by user

[Issue No.] GOT-A-0133-C

### 3.10 GT1020-L□D(W) and GT2103-PMBDS comparison

Item		Used models		Recommended replacement models
		GT1020-LBD GT1020-LWD	GT1020-LBDW GT1020-LWDW	GT2103-PMBDS
Conformity standard		CE (EMC, RoHS) and UL	/cUL	←
Di	Туре	STN monochrome (white/	black) liquid crystal	TFT monochrome (white/Black) liquid crystal
spla)	Screen size	3.7"		3.8"
Display section	Resolution	160 × 64 dots		320 ×128 dots
ction	Display size	W86.4 (3.4) × H34.5 (1.35	5) [mm] (inch) (Horizontal	W89.0 (3.50) × H 35.6 (1.40) [mm] (inch) (Horizontal
		format)		format)
	Display character	16-dot standard font: 10 c	haracters × 4 lines	16-dot standard font: 20 characters × 8 lines
		12-dot standard font: Not	available	12-dot standard font: 26 characters × 10 lines
	Display color	Monochrome (white/black	2)	Monochrome (white/Black) 32 scales
	Display angle	Left/Right: 30 degrees, To	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD only	200[cd/m] (Green)	300[cd/m <sup>2</sup> ] (White)	Nondisclosure
	Intensity adjustment	-		32-level adjustment
	Life	Approx. 50000 h.		-
		(operating ambient tempe	rature: 25 °C, contrast:	
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered			
Ba	Color	LED with 3 available	LED with 3 available	5 colors LED (white, green, pink, orange, and red)
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
ht		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	←
		and screen save time set	ing can be set.	
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Tou	Method	Analog resistive film touch		←
Touch panel	Number of touch	Maximum 50 keys/screen		Maximum 100 keys/screen (Number of touch keys
anel	keys			include Window screen.)
_	Key size	Minimum 2 × 2 dots (per l	(ey)	<b>←</b>
	Simultaneous press	Not allowed		<b>←</b>
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

			Used models		Recommended replacement models
Item			GT1020-LBD GT1020-LWD	GT1020-LBDW GT1020-LWDW	GT2103-PMBDS
≤	User memory		Built-in flash memory (5	12kB or less)	Built-in flash memory (3 MB or less)
Memory	Life (Number of times)	of write	100000 times		←
Battery	Туре		-		-
ν	Life		-		-
Built-in interface	RS-422/ 485 (side)	Specifi cations	1 channel Connector shape: Conn Application: PLC commu	ector terminal block 9 pins	←
erfa	(5.45)	Cables	Example: GT10-CuuR		<b>←</b>
9	RS-232	Specifi	1 channel	. •	1 channel
	(back)	cations	Connector shape: MINI	DIN 6 nins (Female)	Connector shape: MINI DIN 6 pins (Female)
	(back)	Cations	Application: Personal co	. , , ,	Application: Personal computer connection*1, PLC
				onnection, or serial printer	communication, barcode reader connection,
			connection	ormection, or serial printer	or serial printer connection
-		Cablas		6D	
	Cables		Example: GT01-C30R2-		4 showned mayimum transfer rate Full Speed 42
	USB (Dev	ice)		sold GT10-RS2TUSB-5S	1 channel, maximum transfer rate: Full-Speed 12
			is required.		Mbps  Commented the bound HCD Mini D (head)
				46.1.55	Connector shape: USB Mini-B (back)
	Memory Id	oader	The separately sold GT	10-LDR	The separately sold SD card (SDHC card support (max. 32 GB))*2
Buzze	r output		Single tone (LONG/ SH	ORT/ OFF adjustable)	← ←
	tive structu	ıre	Equivalent to IP67F (fro	•	←
	al dimensi		W113 (4.45) × H74 (2.9		<b>←</b>
	cutting dim		W105 (4.13) × H66 (2.60		<b>←</b>
		g mounting	0.2kg	o) [mm] (mon)	←
bracke	•				
Compatible software package		are	GT Designer3 Version1.00A or later/ GT Designer2 Version2.35M or later	GT Designer3 Version1.00A or later/ GT Designer2 Version 2.55H or later	GT Designer3 Version1.112S or later
Orient	ation		Horizontal or vertical		←
Product installation spacing		on spacing	p,55 reference		p,55 reference
Installation position		on	p,57 reference		p,57 reference
Power supply voltage		tage	24 V DC (+10%, -15%)		←
Power cor	Backlight	ON	1.9W or less		←
Power consumption	Backlight OFF		1.2W or less		1.3W or less
S					

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)
\*2 The separately sold SD card unit (GT21-03SDCD) is required.

### 3.11 GT1020-L□D(W)2 and GT2103-PMBDS2 comparison

Item		Used models		Recommended replacement models
		GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	GT2103-PMBDS2
Conformity standard		CE (EMC, RoHS) and UL	/cUL	←
Di	Туре	STN monochrome (white/	Black) liquid crystal	TFT monochrome (white/black) liquid crystal
spla)	Screen size	3.7"		3.8"
Display section	Resolution	160 × 64 dots		320 × 128 dots
ction	Display size	W86.4 (3.4) × H34.5 (1.35	5) [mm] (inch) (Horizontal	W 89.0 (3.50) × H 35.6 (1.40) [mm] (inch)
		format)		(Horizontal format)
	Display character	16-dot standard font: 10 c	haracters ×4 lines	16-dot standard font: 20 characters × 8 lines
		12-dot standard font: Not	available	12-dot standard font: 26 characters × 10 lines
	Display color	Monochrome (white/Black	()	Monochrome (white/black) 32 scales
	Display angle	Left/Right: 30 degrees, To degrees	p: 20 degrees, Bottom: 30	Nondisclosure
		(Horizontal format)		
	Contrast adjustment	16-level adjustment		_
	Intensity of LCD	200[cd/m²](Green)	300[cd/m³](White)	Nondisclosure
	only	zoo[ou/m](Green)	000[04/11](11/11/07)	
	Intensity adjustment	-		32-level adjustment
	Life	Approx. 50000 h.		-
		(operating ambient tempe	rature: 25 °C, contrast:	
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered			
Ba	Color	LED with 3 available	LED with 3 available	5 colors LED (white, green, pink, orange, and red)
Backlight		colors (green, orange,	colors (white, pink, and	(Not replaceable)
컱		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	←
		and screen save time set	ing can be set.	
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Tou	Method	Analog resistive film touch	n panel	←
Touch panel	Number of touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/screen (Number of touch keys
ane	keys	include Window screen.)		include Window screen.)
_	Key size	Minimum 2 ×2 dots (per k	ey)	<b>←</b>
	Simultaneous press	Not allowed		<b>←</b>
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

Memory Life		GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	GT2103-PMBDS2
User mem Life (Number of times)	•	Built-in flash memory (512 100000 times	2 KB or less)	Built-in flash memory (3 MB or less)  ←
Туре		-		-
Life		-		
RS-232 (side)	Specifi cations	· ·		<b>←</b>
	Cables	Example: GT10-C30R2-8	P	←
RS-232 (back)	Specifi cations	Application: Personal combarcode reader cor	puter connection,	1 channel     Connector shape: MINI DIN 6 pins (Female)     Application: Personal computer connection*1, PLC communication, barcode reader connection, or serial printer connection
	Cables		P	←
USB (Dev				1 channel, maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B (back)
Memory Id	oader	The separately sold GT10	)-LDR	The separately sold SD card (SDHC card supported (max. 32 GB))*2
r output		Single tone (LONG/ SHOR	RT/ OFF adjustable)	←
tive structu	ire	Equivalent to IP67F (front	section)	←
al dimensio	ons	W113 (4.45) × H74 (2.91)	× D27 (1.06)	←
cutting dim	ensions	W105 (4.13) × H66 (2.60)	[mm] (inch)	←
	g mounting	0.2kg		←
brackets) Compatible software package		GT Designer3 Version1.00A or later/ GT Designer2 Version 2.35M or later	GT Designer3 Version1.00A or later/ GT Designer2 Version 2.55N or later	GT Designer3 Version1.112S or later
ation		Horizontal or vertical		←
ct installatio	on spacing	p,55 reference		p,55 reference
ation position	on	p,57 reference		p,57 reference
Power supply voltage		24 V DC (+10%, -15%)		←
Backlight ON		1.9W or less		2.2W or less
Backlight OFF		1.2W or less		1.6W or less
r it is on the second s	times) Type Life RS-232 (side)  RS-232 (back)  USB (Dev  Memory Ic  output tive structu al dimensic cutting dim t (excluding ts) atible softw ge ation ct installatic tion positic supply vol Backlight	Type  Life  RS-232 Specifi cations  Cables  RS-232 Specifi cations  Cables  USB (Device)  Memory loader  coutput tive structure al dimensions cutting dimensions (excluding mounting ts) atible software ge  ation ct installation spacing ation position supply voltage  Backlight ON  Backlight OFF	Type	times) Type Life RS-232 Specifi (side) cations

<sup>\*1</sup> This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)
\*2 The separately sold SD card unit (GT21-03SDCD) is required.

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# 3.12 GT1020-L□L(W) and GT2103-PMBLS comparison

Conformity standard	odels
Type STN monochrome (white/Black) liquid crystal 3.8"  Resolution 160 × 64 dots 320 × 128 dots 320 × 128 dots W86.4 (3.4) × H34.5 (1.35) [mm] (inch) (Horizontal format)  Display size W64.3.4) × H34.5 (1.35) [mm] (inch) (Horizontal format)  Display character 16-dot standard font: 10 characters ×4 lines 12-dot standard font: 20 characters × 10 lisplay angle Left/Right: 30 degrees, Top: 20 degrees, Bottom: 30 degrees (Horizontal format)  Contrast adjustment 16-level adjustment - 17-level adjustment - 18-level adjustment - 2048 screens screens that can be registered Color LED with 3 available colors (green, orange, and red) (Not replaceable)  EDD (Not replaceable)  Function Status control (color, on/flashing/off) is available and screen save time setting can be set. Approx. 50000 h (operating ambient temperature: 25 °C, debrightness: 50%)	
Type STN monochrome (white/Black) liquid crystal 3.8"  Resolution 160 × 64 dots 320 × 128 dots  Display size W86.4 (3.4) × H34.5 (1.35) [mm] (inch) (Horizontal format)  Display character 16-dot standard font: 10 characters ×4 lines 12-dot standard font: 20 characters × 10 lisplay angle Left/Right: 30 degrees, Top: 20 degrees, Bottom: 30 degrees (Horizontal format)  Contrast adjustment 16-level adjustment - 16-level adjustment - 16-lot standard font: 20 characters × 10 linesity of LCD only  Intensity of LCD 200[cd/m](Green) 300[cd/m](White) Nondisclosure  Registered Color LED with 3 available colors (green, orange, and red) (Not replaceable)  ED with 3 available colors (green, orange, and red) (Not replaceable)  Function Status control (color, on/flashing/off) is available and screen save time setting can be set.  Approx. 50000 h (operating ambient temperature: 25 °C, debrightness: 50%)	
Display character   16-dot standard font: 10 characters ×4 lines   12-dot standard font: 20 characters × 8 lines   12-dot standard font: 20 characters × 10	d crystal
Display character   16-dot standard font: 10 characters ×4 lines   12-dot standard font: 20 characters × 8 lines   12-dot standard font: Not available   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 26 characters × 10   12-dot standard font: 20 characters × 10	
Display character   16-dot standard font: 10 characters ×4 lines   12-dot standard font: 20 characters × 8 lines   12-dot standard font: Not available   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 26 characters × 10   12-dot standard font: 20 characters × 10	
Display character   16-dot standard font: 10 characters ×4 lines   12-dot standard font: 20 characters × 8 lines   12-dot standard font: Not available   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 20 characters × 10   12-dot standard font: 26 characters × 10   12-dot standard font: 20 characters × 10	(inch)
12-dot standard font: Not available   12-dot standard font: 26 characters × 10	
Display color   Monochrome (white/Black)   Monochrome (white/black) 32 scales	× 8 lines
Display angle  Left/Right: 30 degrees, Top: 20 degrees, Bottom: 30 degrees (Horizontal format)  Contrast adjustment  16-level adjustment  Intensity of LCD only  Intensity adjustment  Life  Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)  Maximum number of screens that can be registered  Color  LED with 3 available colors (green, orange, and red) ((Not replaceable)  Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  Approx. 50000 h (operating ambient temperature: 25 °C, debrightness: 50%)	× 10 lines
degrees (Horizontal format)   Contrast adjustment   16-level adjustment   -	S
Contrast adjustment   16-level adjustment   -	
only  Intensity adjustment  Life Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)  Maximum number of screens that can be registered Color LED with 3 available colors (green, orange, and red) (Not replaceable)  Function Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  -  Approx. 50000 h.  (operating ambient temperature: 25 °C, contrast: 1/5)  2048 screens  5 colors LED (white, green, pink, orange, (Not replaceable)  Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  -  Approx. 50000 h (operating ambient temperature: 25 °C, debrightness: 50%)	
Life Approx. 50000 h. (operating ambient temperature: 25 °C, contrast: 1/5)  Maximum number of screens that can be registered  Color LED with 3 available colors (green, orange, and red) (Not replaceable)  Function Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h (operating ambient temperature: 25 °C, contrast:  - Approx. 50000 h	
(operating ambient temperature: 25 °C, contrast:  1/5)  Maximum number of screens that can be registered  Color  LED with 3 available colors (green, orange, and red) (Not replaceable)  Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  -  Approx. 50000 h (operating ambient temperature: 25 °C, of brightness: 50%)	
Screens that can be registered  Color  LED with 3 available colors (green, orange, and red) (Not replaceable)  Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  -  Approx. 50000 h (operating ambient temperature: 25 °C, of brightness: 50%)	
Tegistered   Color   LED with 3 available   Colors (green, orange, and red)   (Not replaceable)   (Not replaceable)   Color   Colors (green, orange, and red)   (Not replaceable)   (Not replaceable)   Colors (white, pink, and red)   (Not replaceable)   (Not replaceable)   Colors (white, pink, and red)   (Not replaceable)   (Not replaceable)   Colors (white, pink, and red)   (Not replaceable)   (Not replaceable)   (Not replaceable)   Colors (white, pink, and red)   (Not replaceable)   (Not replaceabl	
Color  LED with 3 available colors (green, orange, and red) (Not replaceable)  Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  -  Approx. 50000 h (operating ambient temperature: 25 °C, of brightness: 50%)	
Function  Status control (color, on/flashing/off) is available and screen save time setting can be set.  Life  - Approx. 50000 h (operating ambient temperature: 25 °C, description brightness: 50%)	
Life - Approx. 50000 h (operating ambient temperature: 25 °C, d brightness: 50%)	ange, and red)
(operating ambient temperature: 25 °C, d	
brightness: 50%)	
	°C, display
Method   Analog resistive film touch panel   ←	
Number of touch Maximum 50 keys/screen (Number of touch keys Maximum 100 keys/screen (Number of touch	
	r of touch keys
keys include Window screen.) include Window screen.)	
Key size Minimum 2 ×2 dots (per key) ←	
Simultaneous press Not allowed ←	
Life 1 million times or more (operating force 0.98N ← max.)	

			I lood modele		Decemmended replacement models
Item			Used models		Recommended replacement models
			GT1020-LBL GT1020-LWL	GT1020-LBLW GT1020-LWLW	GT2103-PMBLS
≤ e	User men	nory	Built-in flash memory (512	2 KB or less)	Built-in flash memory (3 MB or less)
Memory	Life		100000 times		←
~	(Number	of write			
	times)				
Battery	Туре		-		-
ery	Life		-		-
Bu	RS-422	Specifi	1 channel		←
Built-in interface	(side)	cations	Connector shape: Connector	ctor terminal block 9 pins	
inte			Application: PLC commun	nication/power feeding	
rfаce		Cables	Example: GT10-C30R4-8	P	←
(V	RS-232	Specifi	1 channel		-
	(back)	cations	Connector shape: MINI D	, , ,	
			Application: Personal con		
				nnection, or serial printer	
		Cables	connection Example: GT01-C30R2-6	D	
	USB (Dev		Mounting the separately s		1 channel, maximum transfer rate: Full-Speed 12
	OOD (DCV	100)	is required.	301d 3110-1(02100B-30	Mbps
					Connector shape: USB Mini-B (back)
	Memory loader		The separately sold GT10	)-LDR	-
Buzze	er output		Single tone (LONG/ SHO	RT/ OFF adjustable)	←
Prote	ctive structu	ıre	Equivalent to IP67F (front	section)	←
Exter	nal dimensi	ons	W113 (4.45) × H74 (2.91)	× D27 (1.06)	←
Pane	cutting dim	ensions	W105 (4.13) × H66 (2.60)	[mm] (inch)	←
Weigl	nt (excludin	g mounting	0.18kg		←
brack	ets)				
	atible softw	/are	GT Designer3	GT Designer3	GT Designer3 Version1.112S or later
packa	age		Version1.00A or later/	Version1.00A or later/	
			GT Designer2 GT Designer2		
Oni - 1	4 - 4: - :-		Version 2.35M or later	Version 2.55N or later	
Orien		on encoine	Horizontal or vertical		p,55 reference
	ıct installation lation position		p,55 reference p,58 reference		p,58 reference
	r supply vol		5 V DC (+5%, -5%) Powe	r from the PLC	p,50 reference ←
1 0000	ι σαρρίγ νυ	lage	0 V DO (1070, -070) 1 OWE	i iioni tile i Lo	,

		Used models		Recommended replacement models
Item		GT1020-LBL GT1020-LBLW GT1020-LWL GT1020-LWLW		GT2103-PMBLS
Power cor	Backlight ON	1.1W or less		←
consumption	Backlight OFF	0.6W or less		0.7W or less
os		Installed before shipment		Installed by user

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### 4. Software specifications comparison

### 4.1 GOT105□ and GT2107-W comparison

		1 G 1 Z 107 - W CO		Recommended		
Used models				replacement models	Precaution during replacement	
GT1	GT105□			GT2107-W		
Common setting	GOT environmental setting	System security setting  Startup logo	$\rightarrow$	Functional operation security  Data transfer security  Startup logo	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GOT2000.  Startup logo is not automatically enlarged or reduced to fit	
g	Comment	Basic comment	$\rightarrow$	Comment group No. 256	the new resolution.  Basic comment in GOT1000 becomes comment group No. 256 in GOT2000.	
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GOT2000. It operates as the ordinary watch cycle.	
	Alarm	Alarm history	$\rightarrow$	User alarm observation (historical mode)	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GOT2000.	
		Alarm flow	$\rightarrow$	Alarm popup display (flow)	Alarm flow in GOT1000 was changed to alarm popup display (flow) in GOT2000 series.	
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	$\rightarrow$	Record attribute 'Not to set the device value'	For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GOT2000.  When the check box is unchecked in GOT1000, select the equivalent setting in GOT2000.	
	Status observation	Status observation	$\rightarrow$	Trigger action	Status observation in GOT1000 becomes trigger action in GOT2000.	
Layout	-	-	$\rightarrow$	-	Since the resolutions of the GT105□ model and GT2107-W model differ, adjusting the layout may be required.	
Object	Word Switch	Initial value condition	<b>→</b>	Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GT21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value. In the GT21 model, the device value is reset to the reset value when it is over (under) the condition value. Example: Mode: Data Addition   • Variation: 1 • Condition Value: 10 • Reset Value: 0 <gt10 model=""> Device value: <math>0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1</math> <gt21 model=""> Device value: <math>0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 10 \rightarrow 0 \rightarrow 1</math></gt21></gt10>	

Used	l models			Recommended replacement models	Precaution during replacement
GT10	GT105□			GT2107-W	
Object	Numerical input	Adjust decimal point range Input case	<b>→</b>	Adjust decimal point range Input case	If real number display format, adjust decimal point range, and display case settings are made for data type other than real number in the GT10 model, input case setting must be remade in the GT21 model.  The GT10 model checks the range of the actual input value. The GT21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gt21 model=""> Input case setting: Remake setting as 0 to 100 required</gt21></gt10>
	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GT21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gt21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gt21></gt10>
	ASCII input ASCII display Alarm history display	ASCII input ASCII display Alarm history display	$\rightarrow$	ASCII input Text display Alarm display (User)	ASCII input and ASCII display in GOT1000 become text input and text display in GOT2000.  Alarm history display in GOT1000 becomes alarm display (user) in GOT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times</gt10>
	User alarm display	User alarm display	<b>→</b>	Simple alarm display	<gt21 model=""> 1 to 8 times User alarm display in GOT1000 becomes simple alarm display in GOT2000.</gt21>

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### 4.2 GOT105□ and GS2107-W comparison

Used models				Recommended replacement models	Precaution during replacement
GT1050			GS2107-W		
Common setting	GOT environmental setting	System security setting	<b>→</b>	Functional operation security  Data transfer security	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GS.
		Startup logo	$\rightarrow$	Startup logo	Startup logo is not automatically enlarged or reduced to fit the new resolution.
	Comment	Basic comment	$\rightarrow$	Comment group No. 256	Basic comment in GOT1000 becomes comment group No. 256 in GS.
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GS.  It operates as the ordinary watch cycle.
	Alarm	Alarm history	$\rightarrow$	User alarm observation (historical mode)	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GS.  The save location of the history data is different. <gt10 model=""> D drive (Built-in SRAM)  <gs21 model=""> A drive (Standard SD card) and C drive (Built-in flash memory)</gs21></gt10>
		Alarm flow	$\rightarrow$	Alarm popup display (flow)	Alarm flow in GOT1000 was changed to alarm popup display (flow) in GS.
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	<b>→</b>	Record attribute 'Not to set the device value'	For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GS.  When the check box is unchecked in GOT1000, select the equivalent setting in GS.  The save location of the recipe data is different. <gt10 model=""> D drive (Built-in SRAM)  <gs21 model=""> A drive (Standard SD card) and C drive (Built-in flash memory)</gs21></gt10>
	Status observation	Status observation	$\rightarrow$	Trigger action	Status observation in GOT1000 becomes trigger action in GS.
Layout	-	-	$\rightarrow$	-	Since the resolutions of the GT105□ model and GS2107-W model differ, adjusting the layout may be required.

, , . Recommended							
Used models				replacement models	December during replacement		
GT105□				-	Precaution during replacement		
Object	Word Switch	Initial value condition	<b>→</b>	GS2107-W Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GS21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value. In the GS21 model, the device value is reset to the reset value when it is over (under) the condition value. Example:• Mode: Data Addition  • Variation: 1  • Condition Value: 10  • Reset Value: 0 <gt10 model=""> Device value: <math>0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1</math></gt10>		
	Numerical input	Adjust decimal point range	<b>→</b>	Adjust decimal point range Input case	<gs21 model=""> Device value: <math>0 \to 1 \to 2 \to \bullet \bullet \bullet \to 8</math> <math>\to 9 \to 10 \to 0 \to 1</math>  If real number display format, adjust decimal point range, and display case settings are made for data type other than</gs21>		
		Input case		•	real number in the GT10 model, input case setting must be remade in the GS21 model.  The GT10 model checks the range of the actual input value.  The GS21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gs21 model=""> Input case setting: Remake setting as 0 to 100 required</gs21></gt10>		
	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GS21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gs21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gs21></gt10>		

Used models GT105□				Recommended replacement models GS2107-W	Precaution during replacement
Object	ASCII input ASCII display Alarm history display	ASCII input ASCII display Alarm history display	$\rightarrow$	ASCII input Text display Alarm display (User)	ASCII input and ASCII display in GOT1000 become text input and text display in GOT2000.  Alarm history display in GOT1000 becomes alarm display (user) in GOT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times  <gs21 model=""> 1 to 8 times</gs21></gt10>
	User alarm display	User alarm display	$\rightarrow$	Simple alarm display	User alarm display in GOT1000 becomes simple alarm display in GOT2000.

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4.3 GOT104 and GT2104-R comparison

Used	Used models GT104□			Recommended replacement models	Precaution during replacement
GT10				GT2104-R	
Common setting	GOT environmental setting	System security setting  Startup logo	$\rightarrow$	Functional operation security  Data transfer security  Startup logo	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GOT2000.  Startup logo is not automatically enlarged or reduced to fit the new resolution.  If GT1040 (monochrome liquid crystal) is used, adjusting the startup logo may be required since its color is changed
	Comment	Basic comment	$\rightarrow$	Comment group No. 256	from 16 scales to 65536 colors.  Basic comment in GOT1000 becomes comment group No. 256 in GOT2000.
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GOT2000.It operates as the ordinary watch cycle.
	Alarm	Alarm history	$\rightarrow$	User alarm observation (historical mode)	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GOT2000.
		Alarm flow	$\rightarrow$	Alarm popup display (flow)	Alarm flow in GOT1000 was changed to alarm popup display (flow) in GOT2000.
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	<b>→</b>	Record attribute 'Not to set the device value'	For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GOT2000.  When the check box is unchecked in GOT1000, select the equivalent setting in GOT2000.
	Status observation	Status observation	$\rightarrow$	Trigger action	Status observation in GOT1000 becomes trigger action in GOT2000.
Layout	-	-	$\rightarrow$	-	Since the resolutions of the GT104□ model and GT2104-R model differ, adjusting the layout may be required.
Object	All	Style	$\rightarrow$	Style	If GT1040 (monochrome liquid crystal) is used, adjusting the color of each object may be required since the color setting is changed from 16 scales to 65536 colors.

	Used models GT104⊓			Recommended replacement models	Precaution during replacement
Object	Word Switch	Initial value condition	<b>→</b>	GT2104-R Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GT21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value.  In the GT21 model, the device value is reset to the reset value when it is over (under) the condition value.  Example: Mode: Data Addition  Variation: 1
					<ul> <li>Condition Value: 10</li> <li>Reset Value: 0</li> <li><gt10 model=""> Device value: 0 → 1 → 2 → ••• → 8 → 9 → 0 → 1</gt10></li> <li><gt21 model=""> Device value: 0 → 1 → 2 →•• → 8 → 9 → 10 → 0 → 1</gt21></li> </ul>
	Numerical input	Adjust decimal point range Input case	<b>→</b>	Adjust decimal point range Input case	If real number display format, adjust decimal point range, and display case settings are made for data type other than real number in the GT10 model, input case setting must be remade in the GT21 model.  The GT10 model checks the range of the actual input value. The GT21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gt21 model=""> Input case setting: Remake setting as 0 to 100 required</gt21></gt10>

	Used models GT104□			Recommended replacement models GT2104-R	Precaution during replacement
Object	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GT21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gt21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gt21></gt10>
	ASCII input ASCII display	ASCII input ASCII display	$\rightarrow$	ASCII input Text display	ASCII input and ASCII display in GOT1000 become text input and text display in GOT2000.
	Alarm history display	Alarm history display	<b>→</b>	Alarm display (User)	Alarm history display in GOT1000 becomes alarm display (user) in GOT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times  <gt21 model=""> 1 to 8 times</gt21></gt10>
	User alarm display	User alarm display	$\rightarrow$	Simple alarm display	User alarm display in GOT1000 becomes simple alarm display in GOT2000.

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4.4 GOT1030 and GT2104-R comparison

4.4	· l						
Used	l models			Recommended replacement models	Precaution during replacement		
GT10	GT1030			GT2104-R	Trocadion daming replacement		
Common setting	GOT environmental setting	System security setting  Startup logo	→ →	Functional operation security Data transfer securit' Startup logo	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GOT2000.  Startup logo is not automatically enlarged or reduced to fit the new resolution.		
	Comment	Basic comment	<b>→</b>	Comment group No. 256	Basic comment in GOT1000 becomes comment group No. 256 in GOT2000.		
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GOT2000.  It operates as the ordinary watch cycle.		
	Alarm	Alarm history  Alarm flow	→ →	User alarm observation (historical mode)  Alarm popup display	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GOT2000.  Alarm flow in GOT1000 was changed to alarm popup		
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	<b>→</b>	(flow)  Record attribute 'Not to set the device value'	display (flow) in GOT2000.  For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GOT2000.  When the check box is unchecked in GOT1000, select the equivalent setting in GOT2000.		
Layout	Status observation	Status observation	→ →	Trigger action	Status observation in GOT1000 becomes trigger action in GOT2000.  Since the resolutions of the GOT1030 model and GT2104-R model differ, adjusting the layout may be required.		
Screen property	Backlight color	Green, red,     and orange     White, red,     and orange	<b>→</b>	Initial value condition	The backlight color can be changed in GT1030, and it is fixed to white in GT2104-R.		
<u> </u>		Startup logo	$\rightarrow$	Startup logo	Startup logo of GT2104-R is displayed with white backlight (fixed).  It is not displayed with green.		

Used	l models			Recommended	
			-	replacement models	Precaution during replacement
GT10	)30 			GT2104-R	
Object	Word Switch	Initial value condition	<b>→</b>	Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GT21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value. In the GT21 model, the device value is reset to the reset value when it is over (under) the condition value. Example:• Mode: Data Addition • Variation: 1 • Condition Value: 10 • Reset Value: 0 • GT10 model> Device value: $0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1$ $0 \rightarrow 0 \rightarrow 1 \rightarrow 0 \rightarrow 0 \rightarrow 1$
	Numerical input	Adjust decimal point range Input case	$\rightarrow$	Adjust decimal point range Input case	If real number display format, adjust decimal point range, and display case settings are made for data type other than real number in the GT10 model, input case setting must be remade in the GT21 model.  The GT10 model checks the range of the actual input value. The GT21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gt21 model=""> Input case setting: Remake setting as 0 to 100 required</gt21></gt10>
	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GT21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gt21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gt21></gt10>

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	Used models GT1030		_	Recommended replacement models GT2104-R	Precaution during replacement
Object	ASCII input ASCII display	ASCII input ASCII display	$\rightarrow$	ASCII input Text display	ASCII input and ASCII display in GOT1000 become text input and text display in GOT2000.
~	Alarm history display	Alarm history display	<b>→</b>	Alarm display (User)	Alarm history display in GOT1000 becomes alarm display (user) in GOT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times  <gt21 model=""> 1 to 8 times</gt21></gt10>
	User alarm display	User alarm display	$\rightarrow$	Simple alarm display	User alarm display in GOT1000 becomes simple alarm display in GOT2000.

4.5 GOT1030 and GT2103-P comparison

	Used models			Recommended replacement models	Precaution during replacement
GT10	GT1030			GT2103-P	
Common setting	GOT environmental setting	System security setting	$\rightarrow$	Functional operation security  Data transfer security	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GOT2000.
etting		Startup logo	$\rightarrow$	Startup logo	Startup logo is not automatically enlarged or reduced to fit the new resolution.
	Comment	Basic comment	$\rightarrow$	Comment group No. 256	Basic comment in GOT1000 becomes comment group No. 256 in GOT2000.
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GOT2000. It operates as the ordinary watch cycle.
	Alarm	Alarm history	$\rightarrow$	User alarm observation (historical mode)	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GOT2000.  The save location of the history data is different. <gt10 model=""> D drive (Built-in SRAM)  <gt21 model=""> A drive (Standard SD card) and C drive (Built-in flash memory)</gt21></gt10>
		Alarm flow	$\rightarrow$	Alarm popup display	Alarm flow in GOT1000 was changed to alarm popup display (flow) in GOT2000 series.
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	$\rightarrow$	Record attribute 'Not to set the device value'	For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GOT2000.  When the check box is unchecked in GOT1000, select the equivalent setting in GOT2000.  The save location of the recipe data is different. <gt10 model=""> D drive (Built-in SRAM)  <gt21 model=""> A drive (Standard SD card) and C drive (Built-in flash memory)</gt21></gt10>

Used	Used models GT1030			Recommended replacement models	Precaution during replacement
GT10				GT2103-P	
Common setting	Status observation	Status observation	$\rightarrow$	Trigger action	Status observation in GOT1000 becomes trigger action in GOT2000.
Layout	-	-	$\rightarrow$	-	Since the resolutions of the GT1030 model and GT2103-P model differ, adjusting the layout may be required.
Screen property	Backlight color	Green, red, and orange     White, red, and orange	<b>→</b>	Green, orange, white, pink, and red	Although the backlight colors differ depending on model in GT1030, GT2103 has 5 backlight colors.  When converting a GT1030 project, select  "Green/Red/Orange" or "White/Red/Pink" backlight color in the type setting window.
		Startup logo	$\rightarrow$	Startup logo	Startup logo of GT2103 is displayed with white backlight (fixed).
Object	Word Switch	Initial value condition	<b>→</b>	Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GT21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value. In the GT21 model, the device value is reset to the reset value when it is over (under) the condition value. Example:• Mode: Data Addition   • Variation: 1 • Condition Value: 10 • Reset Value: 0
	Numerical input	Adjust decimal point range Input case	<b>→</b>	Adjust decimal point range Input case	If real number display format, adjust decimal point range, and display case settings are made for data type other than real number in the GT10 model, input case setting must be remade in the GT21 model.  The GT10 model checks the range of the actual input value. The GT21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gt21 model=""> Input case setting: Remake setting as 0 to 100 required</gt21></gt10>

Used	models			Recommended replacement models GT2103-P	Precaution during replacement
Object	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GT21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gt21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gt21></gt10>
	ASCII input ASCII display	ASCII input ASCII display	$\rightarrow$	ASCII input Text display	ASCII input and ASCII display in GOT1000 become text input and text display in GOT2000.
	Alarm history display	Alarm history display	<b>→</b>	Alarm display (User)	Alarm history display in GOT1000 becomes alarm display (user) in GOT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times  <gt21 model=""> 1 to 8 times</gt21></gt10>
	User alarm display	User alarm display	$\rightarrow$	Simple alarm display	User alarm display in GOT1000 becomes simple alarm display in GOT2000.

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### 4.6 GOT1020 and GT2103-P comparison

Used	d models	G12103-1 COI		Recommended replacement models	Precaution during replacement
GT10	GT1020			GT2103-P	
Common setting	GOT environmental setting	System security setting	<b>→</b>	Functional operation security  Data transfer security	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in GOT2000.
etting		Startup logo	$\rightarrow$	Startup logo	Startup logo is not automatically enlarged or reduced to fit the new resolution.
	Comment	Basic comment	$\rightarrow$	Comment group No. 256	Basic comment in GOT1000 becomes comment group No. 256 in GOT2000.
	Hard Copy	Abort trigger watch cycle	$\rightarrow$	No setting (ordinary watch cycle)	Abort trigger watch cycle in GOT1000 does not exist in GOT2000.  It operates as the ordinary watch cycle.
	Alarm	Alarm history	<b>→</b>	User alarm observation (historical mode)	Alarm history in GOT1000 becomes user alarm observation (historical mode) in GOT2000.
		Alarm flow	$\rightarrow$	Alarm popup display (flow)	Alarm flow in GOT1000 was changed to alarm popup display (flow) in GOT2000 series.
	Recipe	Checkbox for 'Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup'	$\rightarrow$	Record attribute 'Not to set the device value'	For the checkbox of "Create a recipe file with the value set in this dialog if a recipe file is not available at the time of startup" in GOT1000, the record attribute "Not to set the device value" is the equivalent setting in GOT2000. When the check box is unchecked in GOT1000, select the equivalent setting in GOT2000.
	Status observation	Status observation	$\rightarrow$	Trigger action	Status observation in GOT1000 becomes trigger action in GOT2000.
Screen property	Backlight color	Green, red, and orange     White, red, and orange	<b>→</b>	Green, orange, white, pink, and red	Although the backlight colors differ depending on model in GT1020, GT2103-P has 5 backlight colors.  When converting a GT1020 project, select  "Green/Red/Orange" or "White/Red/Pink" backlight color in the type setting window.
		Startup logo	$\rightarrow$	Startup logo	Startup logo of GT2103-P is displayed with white backlight (fixed).  It is not displayed with green.

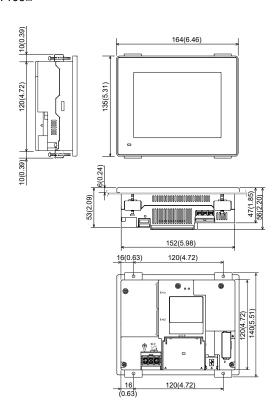
				Pocommonded	
Used	models			Recommended replacement models	Precaution during replacement
GT10				GT2103-P	Precaution during replacement
					15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Object	Word Switch	Initial value condition	<b>→</b>	Initial value condition	If the initial value condition is set in the GT10 model, setting the condition value again is required in the GT21 model. In the GT10 model, the device value is reset to the reset value when it is equal to or more (less) than the condition value. In the GT21 model, the device value is reset to the reset value when it is over (under) the condition value. Example:• Mode: Data Addition   • Variation: 1 • Condition Value: 10 • Reset Value: 0
	Numerical input	Adjust decimal point range Input case	<b>→</b>	Adjust decimal point range Input case	If real number display format, adjust decimal point range, and display case settings are made for data type other than real number in the GT10 model, input case setting must be remade in the GT21 model.  The GT21 model checks the range of the value displayed on the screen.  Example: Setting the input case as 0 to 100  In the case of 2 decimal points, <gt10 model=""> Input case setting: 0 to 10000  <gt21 model=""> Input case setting: Remake setting as 0 to 100 required</gt21></gt10>
	Numerical input Numerical display	Data operation	<b>→</b>	Data operation	If the data type is other than real number and real number display format is set in the GT10 model, the result of division or any operation is rounded down to the nearest integer.  For the same settings in the GT21 model, decimal numbers are displayed.  Rounding (Round off, Round up, or Round down) for decimal numbers can be set.  After the conversion, this setting becomes round off.  Example: • Device type: BIN16  • Format: Real  • Digits (fractional): 1  • Operation: Monitor (Data expression) \$\$/100  • Input value: 156 <gt10 model=""> Monitor value: 1.0  <gt21 model=""> Round off: 1.6, Round down: 1.5, Round up: 1.6</gt21></gt10>

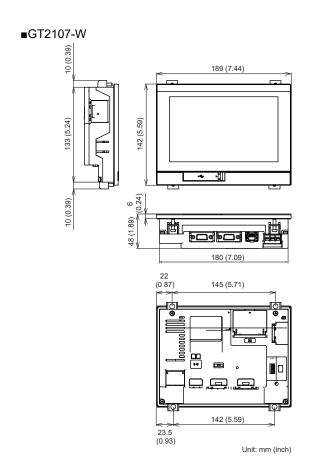
	Used models GT1020			Recommended replacement models GT2103-P	Precaution during replacement
Object	ASCII input ASCII display	ASCII input ASCII display	$\rightarrow$	ASCII input Text display	ASCII input and ASCII display in GOT1000 become text input and text display in GT2000.
	Alarm history display	Alarm history display	$\rightarrow$	Alarm display (User)	Alarm history display in GOT1000 becomes alarm display (user) in GT2000.  Selectable font size differs when a standard font is selected. <gt10 model=""> 0.5 to 8 times  <gt21 model=""> 1 to 8 times</gt21></gt10>
	User alarm display	User alarm display	$\rightarrow$	Simple alarm display	User alarm display in GOT1000 becomes simple alarm display in GT2000.

### 5. External dimensions comparison

### 5.1 GT105□ and GT2107-W comparison

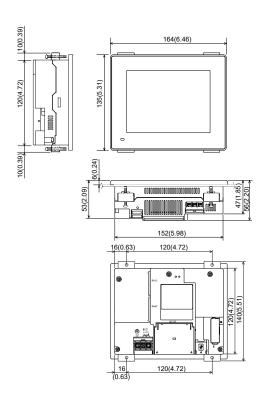
**■**GT105□



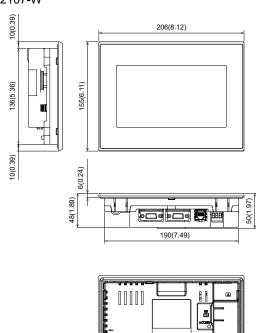


### 5.2 GT105□ and GS2107-W comparison

**■**GT105□



#### ■GS2107-W



Unit: mm (inch)

### 5.3 GT104□ and GT2104-R comparison

■GT104□

139(5.47)

139(5.47)

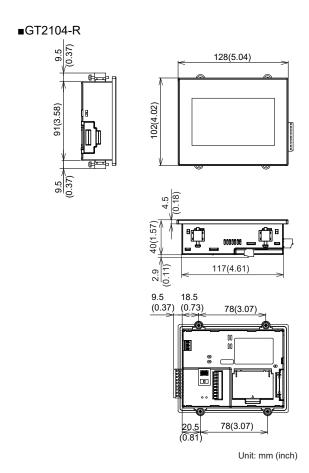
129(5.08)

10 17.5 (0.39) 86(3.39) (0,39)(0.69)

102(4.02)

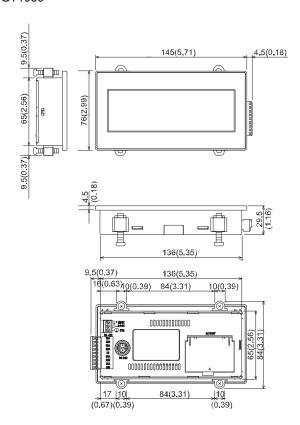
86(3.39)

40(1.57)

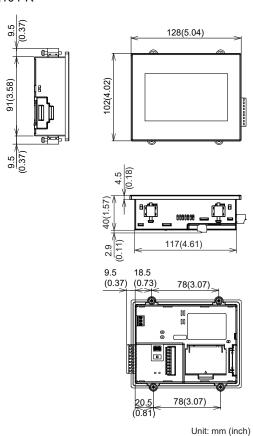


#### 5.4 GT1030 and GT2104-R comparison

■GT1030

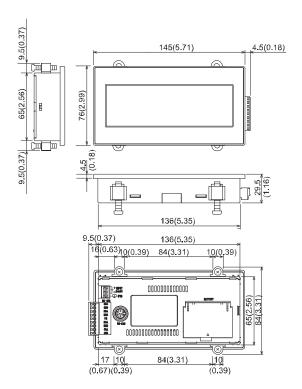


#### ■GT2104-R

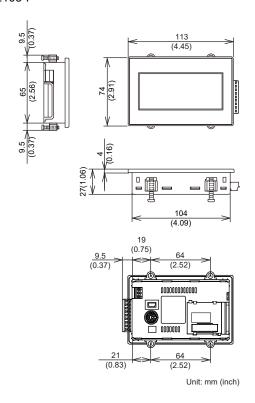


#### 5.5 GT1030 and GT2103-P comparison

■GT1030

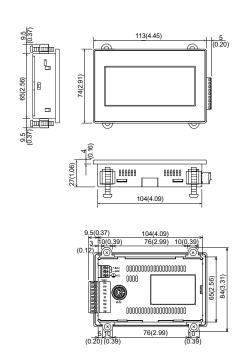


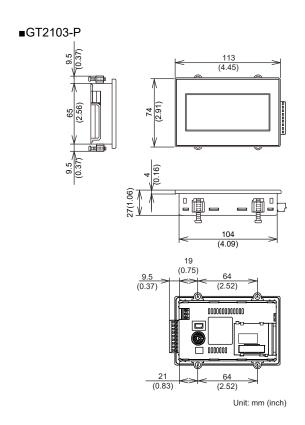
■GT2103-P



### 5.6 GT1020 and GT2103-P comparison

■GT1020





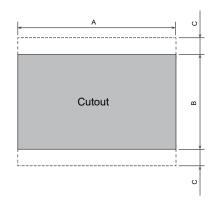
#### 6. Panel cutout dimensions comparison

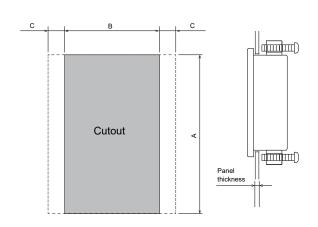
Make holes in the panel according to the dimensions below. Space at the top and bottom is required for mounting fixtures.

Unit: mm (inch)









### 6.1 GT105□ and GT2107-W comparison

	Used models	Recommended replacement models
	GT105□(GOT1000)	GT 2107-W(GOT2000)
A	153 (6.02 ) <sup>+2 (0.08 )</sup>	180.5 (7.11 ) +1(0.04 )
В	121 (4.76 ) +2 (0.08 )	133.5 (5.26 ) +1(0.04 )
С	10 (0.39 ) or more	13 (0.51 ) or more
Panel thickness	Within 2 (0.08 ) to 5 (0.20 )	Within 1.6 (0.06) to 4 (0.16)

#### 6.2 GT105□ and GS2107-W comparison

	Used models	Recommended replacement models
	GT105□(GOT1000)	GS2107-W(GS)
А	153 (6.02 ) <sup>+2 (0.08 )</sup>	191 (7.52 ) <sup>+2(0.08 )</sup>
В	121 (4.76 ) <sup>+2 (0.08 )</sup>	137 (5.39 ) *2 (0.08 )
С	10 (0.39 ) or more	13 (0.51 ) or more
Panel thickness	Within 2 (0.08) to 5 (0.20)	Within 1.6 (0.06) to 4 (0.16)

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6.3 GT104□ and GT2104-R comparison

	Used models	Recommended replacement models
	GT104□(GOT1000)	GT2104-R(GOT2000)
A	130 (5.12 ) +1 (0.04 )	118 (4.65 ) +1 (0.04 )
В	103 (4.06) +1 (0.04)	92 (3.62 ) +1 (0.04 )
С	13 (0.51 ) or more	13 (0.51 ) or more
Panel thickness	Within 2 (0.08 ) to 5 (0.20 )	Within 1 (0.04 ) to 4 (0.16 )

6.4 GT1030 and GT2104-R comparison

	Used models	Recommended replacement models
	GT1030(GOT1000)	GT2104-R(GOT2000)
A	137 (5.39 ) +1 (0.04 )	118 (4.65 ) +1 (0.04 )
В	66 (2.60 ) <sup>+1</sup> (0.04 )	92 (3.62 ) +1 (0.04 )
С	13 (0.51 ) or more	13 (0.51) or more
Panel thickness	Within 1 (0.04 ) to 4 (0.16 )	Within 1 (0.04 ) to 4 (0.16 )

6.5 GT1030 and GT2103-P comparison

	Used models	Recommended replacement models
	GT1030(GOT1000)	GT2103-P(GOT2000)
A	137 (5.39 ) +1 (0.04 )	105 (4.13 ) +1 (0.04 )
В	66 (2.60 ) <sup>+1 (0.04 )</sup>	66 (2.60 ) <sup>+1</sup> (0.04 )
С	13 (0.51 ) or more	13 (0.51 ) or more
Panel thickness	Within 1 (0.04) to 4 (0.16)	Within 1 (0.04) to 4 (0.16)

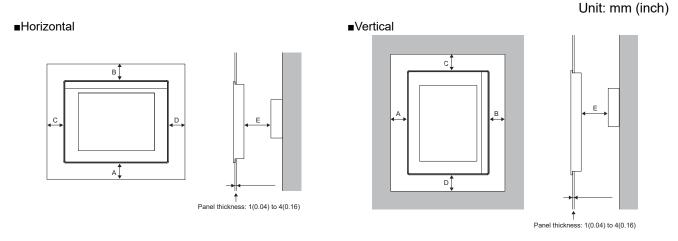
6.6 GT1020 and GT2103-P comparison

	Used models	Recommended replacement models
	GT1020(GOT1000)	GT2103-P(GOT2000)
A	105 (4.13 ) +1 (0.04 )	
В	66 (2.60 ) <sup>+1 (0.04 )</sup>	
С	13 (0.51 ) or more	
Panel thickness	Within 1 (0.04 ) to 4 (0.16 )	

#### 7. Product installation spacing

When mounting the GOT, clearances in the diagram below must be maintained from other structures and devices. Take the connector dimensions and bending radius of the cable into account.

Dimensions in parentheses in the table below are applicable in the case of no radiated-noise or heat-generating equipment nearby.



#### GT105□ and GT2107-W comparison

7.1	G1 103 and G12107-W companson		
		Used models	Recommended replacement models
		GT105□ (GOT1000)	GT 2107-W (GOT2000)
Α		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more*2)
В		80 (3.15) or more (20 (0.79) or more)	80 (3.15) or more (20 (0.79) or more)
С	When the SD card is used	-	50 (1.97) or more
	When the SD card is not used	50 (1.97) or more (20 (0.79) or more)	80 (3.15) or more (20 (0.79) or more)
D		50 (1.97) or more (20 (0.79) or more)	80 (3.15) or more
Ε		100 (3.94) or more (20 (0.79) or more*1)	100 (3.94) or more (20 (0.79) or more)

<sup>\*1 80 (3.15)</sup> or more if a USB cable or a memory poard is used.
\*2 60 (2.36) or more if an RS-485 or an RS-322 cable is used. 80 (3.15) or more if a USB cable or a memory board is used.

#### 7.2 GT105 and GS2107-W comparison

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<sup>\*1 80 (3.15)</sup> or more if a USB cable or a memory board is used.

7.3 GT104 and GT2104-R comparison

		Used models	Recommended replacement models
		GT104□(GOT1000)	GT2104-R(GOT2000)
Α		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
В		80 (3.15) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
С	When the SD card is used	-	50 (1.97) or more
	When the SD card is not used	50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
D		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more
Ε		100 (3.94) or more (20 (0.79) or more*1)	80 (3.15) or more (20 (0.79) or more*2)

7.4 GT1030 and GT2104-R comparison

		Used models	Recommended replacement models
		GT1030(GOT1000)	GT2104-R(GOT2000)
Α		50 (1.97) or more (20 (0.79) or more*1)	50 (1.97) or more (20 (0.79) or more)
В		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
С	When the SD card is used	-	50 (1.97) or more
	When the SD card is not used	50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
D		50 (1.97) or more	50 (1.97) or more
Е		80 (3.15) or more (20 (0.79) or more*2)	80 (3.15) or more (20 (0.79) or more*3)

<sup>50 (1.97)</sup> or more if an RS-232/USB conversion adapter is used.

7.5 GT1030 and GT2103-P comparison

		Used models	Recommended replacement models
		GT1030(GOT1000)	GT2103-P(GOT2000)
Α		50 (1.97) or more (20 (0.79) or more*1)	50 (1.97) or more (20 (0.79) or more)
В		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
С	When the SD card is used	-	50 (1.97) or more
	When the SD card is not used	50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
D		50 (1.97) or more	50 (1.97) or more
E		80 (3.15) or more (20 (0.79) or more*2)	80 (3.15) or more (20 (0.79) or more)

<sup>50 (1.97)</sup> or more if an RS-232/USB conversion adapter is used.

<sup>80 (3.15)</sup> or more if a USB cable or a memory board is used. 80 (3.15) or more if an RS-232 cable or a USB cable is connected to the back side of the GOT.

<sup>80 (3.15)</sup> or more if a personal computer connection cable is used or if an RS-232 interface for personal computer is used to connect multiple GOTs.

<sup>50 (1.97)</sup> or more if an RS-232 interface for personal computer is used when an RS-232/USB conversion adapter is used.

<sup>\*3 80 (3.15)</sup> or more if an RS-232 cable or a USB cable is connected to the back side of the GOT.

<sup>80 (3.15)</sup> or more if a personal computer connection cable is used or if an RS-232 interface for personal computer is used to connect multiple GOTs.

<sup>50 (1.97)</sup> or more if an RS-232 interface for personal computer is used when an RS-232/USB conversion adapter is used.

#### 7.6 GT1020 and GT2103-P comparison

	· · · · · · · · · · · · · · · · · · ·		
		Used models	Recommended replacement models
		GT1020(GOT1000)	GT2103-P(GOT2000)
Α		50 (1.97) or more (20 (0.79) or more*2)	50 (1.97) or more (20 (0.79) or more)
В		50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
С	When the SD card is used	-	50 (1.97) or more
	When the SD card is not used	50 (1.97) or more (20 (0.79) or more)	50 (1.97) or more (20 (0.79) or more)
D		50 (1.97) or more	50 (1.97) or more
Е		80 (3.15) or more (20 (0.79) or more*3)	80 (3.15) or more (20 (0.79) or more*1)

<sup>\*1 80 (3.15)</sup> or more if an RS-232 cable or a personal computer connection cable is used for GT2103-PMBDS.
\*2 50 (1.97) or more if an RS-232/USB conversion adapter is used for GT1020.
\*3 80 (3.15) or more if a personal computer connection cable is used or if an RS-232 interface for personal computer is used to connect multiple GOTs.
50 (1.97) or more if an RS-232 interface for personal computer is used when an RS-232/USB conversion adapter is used.

#### 8. Caution on replacing the project data

To write the project data into the recommended replacement model, the software package described in "Compatible software package" in the list in Chapter 3 is required.

After conversion, always check the converted data before transferring it to the GOT.

The project data once converted to the one for GOT2000 or GS cannot be converted to the project data for GOT1000. It is recommended to back up the project data before conversion.

#### 9. Others

For replacing options (protective cover for oil) from the GT10 model to the GT21 model, refer to the following.

■GT105□ and GT2107-W comparison

GOT	GT105□	GT2107-W
Protective cover for oil	GT05-50PCO	GT21-07WPCO

#### ■GT104□ and GT2104-R comparison

GOT	GT104□	GT2104-R
Protective cover for oil	GT10-40PCO	GT21-04RPCO

#### ■GT1030 and GT2104-R comparison

GOT	GT1030	GT2104-R
Protective cover for oil	GT10-30PCO	GT21-04RPCO

#### ■GT1030 and GT2103-P comparison

GOT	GT1030	GT2103-P
Protective cover for oil	GT10-30PCO	GT10-20PCO

### ■GT1020 and GT2103-P comparison

GOT	GT1020	GT2103-P
Protective cover for oil	GT10-20PCO	←

#### **REVISIONS**

Version	Print Date	Revision
-	December 2018	- First edition
Α	May 2019	- A model with its protective cover for oil replaced has been added.
В	July 2020	<ul> <li>Precautions for replacement (Alarm history display) have been revised (4.1 to 4.6).</li> <li>Writing errors have been corrected.</li> </ul>
С	December 2020	- Revised: Descriptions of "2. Recommended replacement models"