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[Issue No.] GOT-A-0152-A

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

[Date of Issue] July 2020 (Ver. A: December 2020)

[Relevant Models] GT2105, GT2104, GT2103, GT105□, GT104□, GT1030, GT1020

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

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

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

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1. Requests for customers

We released GOT2000 with high functions and performance as an alternative of GOT1000 series in September 2013 (GOT2000 series). We highly recommend that you replace the GOT1000 with the GOT2000 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.

GT105□ →GT2105-Q Replacement model list

O. 100	o a replacement	noudi not			
Used models (GOT1000)	Recommended replacement models (GOT2000)	Panel cutout compatibility	Use attachment	Cable compatibility	Use conversion cable
GT1055-QSBD GT1050-QBBD	GT2105-QTBDS GT2105-QMBDS	0	Not required	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

^{*1} For connection to each controller, refer to the applicable manual from the following.

→ 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-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 GT1030-HWDW*1	GT2104-PMBDS	0	Not required	0	Not required
GT1030-HBD2 GT1030-HWD2*1 GT1030-HBDW2 GT1030-HWDW2*1	GT2104-PMBDS2	0	Not required	0	Not required
GT1030-HBL GT1030-HWL*1 GT1030-HBLW GT1030-HWLW*1	GT2104-PMBLS	0	Not required	0	Not required

^{*1} 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

^{*1} The model has a white panel. The recommended replacement model has a black panel.

3. Hardware specifications comparison

3.1 GT105□-Q□BD and GT2105-Q□BDS comparison

Home		Used models		Recommended replace	ement models
Item		GT1055-QSBD	GT1050-QBBD	GT2105-QTBDS	GT2105-QMBDS
Conformity standard				G12100-Q1BB0	G12100-QWDD0
	ormity standard	CE (EMC), UL/cUL, and h		←	TET manachrama
Display section	Туре	STN color liquid crystal	STN monochrome (white/blue) liquid crystal	TFT color liquid crystal	TFT monochrome (white/Black) liquid crystal
ectio	Screen size	5.7"		←	,,
5	Resolution	320 × 240 dots		←	
	Display size	W115 (4.53) × H86 (3.39)	[mm] (inch)	←	
	Display character	16-dot standard font: 20 d	characters ×15 lines		
		12-dot standard font: 26 d	haracters × 20 lines	←	
	Display color	256 colors	Monochrome (white/blue) 16 scales	65536 colors	Monochrome (white/Black) 32 scales
	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 ²]	260[cd/m ²]	Nondisclosure	
	Intensity adjustment	-		32-level adjustment	
	Life	Approx. 50000 h. (operating ambient temper 1/5)	erature: 25 °C, contrast:	-	
	Maximum number of screens that can be registered	1024 screens		2048 screens	
Ва	Color	Cold cathode fluorescent	lamp	LED	
Backlight		(Not replaceable)		(Not replaceable)	
ht	Function	Backlight OFF		←	
		Screen save time setting	can be set.		
	Life	Approx. 75000 h	Approx. 54000 h	Approx. 65000 h	
		(operating ambient	(operating ambient	(operating ambient tempe	erature: 25 °C, display
		temperature: 25 °C,	temperature: 25 °C,	brightness: 50%)	
		display brightness:	display brightness:		
		50%)	50%)		

			Used models		Recommended replace	oment models
Item					Recommended replace	
			GT1055-QSBD	GT1050-QBBD	GT2105-QTBDS	GT2105-QMBDS
Tou	Method		Matrix resistive film touch	panel	Analog resistive film touch	n panel
Touch panel	Number o	f touch	Maximum 50 keys/screen	(Number of touch keys	Maximum 100 keys/scree	n (Number of touch keys
pan	keys		include Window screen.)		include Window screen.)	
<u>w</u>	Key size		Minimum 16 ×16 dots (pe	r key)	Minimum 2 × 2 dots (per l	key)
	Simultane	ous press	Max. 2 points		Not allowed	
	Life		1 million times or more (or	perating force 0.98N	←	
			max.)			
Me	User mem	nory	Built-in flash memory (3 M	1B or less)	Built-in flash memory (9 N	MB or less)
Memory	Life		100000 times		←	
~	(Number o	of write				
	times)					
Battery	Туре		GT11-50BAT type lithium	battery	←	
tery	Life		Approx. 5 years (operating	g ambient temperature:	←	
			25 °C)			
Buil	RS-422/ Specifi		1 channel		←	
Ťi n	485	cations	Connector shape: D-sub 9			
Built-in interface			Application: PLC communication			
face		Cables	Example: GT01-C30R4-8P		←	
	RS-232	Specifi	1 channel		1 channel	
		cations	Connector shape: D-sub 9		Connector shape: D-sub 9	
			Application: Personal com		Application: Personal con	
				rcode reader connection,		code reader connection,
		Oaklas	or serial printer con		or serial printer con	nection
	LICD (Davi	Cables	Example: GT01-C30R2-6		←	
	USB (Dev	ice)	1 channel, maximum trans	ster rate: Full-Speed 12	←	
			Mbps Connector shape: USB M	ini D (hook)		
			Application: Personal com	` '		
	Memory Id	nader	The separately sold GT10		The senarately sold SD or	ard (SDHC card supported
	Wichiory ic	dadoi	The separately sold of the	7-001 WID	(max. 32 GB))	ard (ODTIO card supported
Buzze	Buzzer output		Single tone (LONG/ SHOI	RT/ OFF adjustable)	← (max. 02 05))	
	ER LED		Emission color: 2 colors (c		Emission color: 2 colors (blue, orange)
	Protective structure		Equivalent to IP67F (front	, , , , , , , , , , , , , , , , , , ,	←	, 3,
Exterr	nal dimensio	ons	W164 (6.46) × H135 (5.31		←	
			(inch)			
Panel	cutting dim	ensions	W153 (6.02) × H121 (4.76	6) [mm] (inch)	←	
Weigh	nt (excludino	g mounting	0.7kg		←	
brack	ets)					

		Used models		Recommended replacement models	
Item		GT1055-QSBD	GT1050-QBBD	GT2105-QTBDS	GT2105-QMBDS
Compatible software		GT Designer3 Version1.00A or later/ GT Designer2 Version2.84N or later		GT Works3 Version1.144A or later	
Orien	<u> </u>	Horizontal or vertical		←	
Produ	uct installation spacing	p,38 reference		p,38 reference	
Instal	lation position	p,40 reference		p,40 reference	
Powe	r supply voltage	24 V DC (+10%, -15%)		←	
Power cor	Backlight ON 9.84W or less		9.36W or less	4.5W or less	2.9W or less
consumption	Backlight OFF	4.32W or less 4.32W or less		2.2W or less	2.2W or less
OS		Installed before shipment		Installed by user	

^{*1} 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 GT104-QBD and GT2104-RTBD comparison

		Used models		Recommended replacement models
Item		GT1045-QSBD	GT1040-QBBD	GT2104-RTBD
Conformity standard		CE (EMC, RoHS), UL/cU	L, 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
ے	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
	Display color	12-dot standard font: 26 c 256 colors	Monochrome (white/blue) 16 scales	12-dot standard font: 40 characters × 22 lines 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/㎡]	300[cd/m ²]	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)		←
ght	Function	Backlight OFF Screen save time setting	can be set.	←
	Life	-		Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
Ы	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
oane	keys	include Window screen.)		include Window screen.)
<u>v</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.)	perating force 0.98N	←

			Used models		Recommended replacement models
Item			GT1045-QSBD	GT1040-QBBD	GT2104-RTBD
 ≤ e	User memory		Built-in flash memory (3 N	IB or less)	Built-in flash memory (9 MB or less)
Memory	Life(Numb	er of write	100000 times		←
Bat	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 Cables	1 channel Connector shape: D-sub 9 Application: PLC commur Example: GT01-C30R4-8	nication	1 channel Connector shape: Connector terminal block 9 pins Application: PLC communication Example: GT10-C02H-9SC + GT01-C30R4-8P
Се		Cubicc	Zampio. Gror Goorti o	•	GT10-C30R4-8PC
	RS-232	Specifi cations	1 channel Connector shape: D-sub, Application: Personal con 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
		Cables	Example: GT01-C30R2-6	P	Example: GT10-C30R2-6P
	Ethernet	Specifi cations	None		1 channel (10BASE-T/100BASE-TX) Connector shape: RJ-45 (modular jack) Application: Personal computer connection, PLC communication
	USB (Device)		1 channel, maximum tran Mbps Connector shape: USB M Application: Personal con	ini-B (back)	←
	Memory Id	oader	The separately sold GT10		The separately sold SD card (SDHC card supported (max. 32 GB))
Buzze	er output		Single tone (LONG/ SHO	RT/ OFF adjustable)	←
Protec	ctive structu	re	Equivalent to IP67F (front	section)	←
Exterr	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)
Panel cutting dimensions		ensions	W130 (5.12) × H103 (4.06	6) [mm] (inch)	W118 (4.65) × H92 (3.62) [mm] (inch)
Weight (excluding mounting brackets)		g mounting	0.45kg		0.4kg
Compatible software		are	GT Designer3 Version1.0	0A or later/	GT Works3 Version1.122C or later
packa	ige		GT Designer2 Version2.8	5P or later	
Orient	tation		Horizontal or vertical		←
Produ	ıct installatio	on spacing	p,38 reference		p,38 reference
Install	lation Position	on	p,40 reference		p,40 reference
Powe	r supply vol	tage	24 V DC (+10%, -15%)		←

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

^{*1} This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

3.3 GT1030-H□D(W) and GT2104-PMBDS comparison

		Used models		Recommended replacement models
Item		GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT2104-PMBDS
Conformity standard		CE (EMC, RoHS), UL/cUL, and KC		←
	Туре	STN monochrome (white/Black) liquid crystal		TFT monochrome (white/Black) liquid crystal
spla	Screen size	4.5"		←
Display section	Resolution	288 ×96 dots		324 ×128 dots
ction	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W109.4 (4.31) × H36.5 (1.44) [mm] (inch)
_	Display character	16-dot standard font: 18 c	characters ×6 lines	16-dot standard font: 24 characters × 8 lines
		12-dot standard font: 24 c	characters ×8 lines	12-dot standard font: 32 characters × 10 lines
	Display color	Monochrome (white/Black	()	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	200[cd/m ²] (Green)	500[cd/m³] (White)	Nondisclosure
	only			
	Intensity adjustment	8-level adjustment		32-level adjustment
	Life	Approx. 50000 h.		-
	(operating ambient temperature: 25 °C, cor		erature: 25 °C, contrast:	
		1/5)		
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered			
Ва	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	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
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-PMBDS
≤	User men	nory	Built-in flash memory (1.5	MB or less)	Built-in flash memory (6 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 25 °C)	g ambient temperature:	←
Built-in interface	RS-422/ 485 (side)	Specifi cations	1 channel Connector shape: Connector Sha		←
rfac		Cables	Example: GT10-C30R4-8	PC	←
Ф	RS-232	Specifi	1 channel		1 channel
	(back)	cations	Connector shape: MINI D Application: Personal com barcode reader cor connection		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 s		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-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)		←
Exteri	nal dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm] (inch)		←
	cutting dim		W137 (5.39) × H66 (2.60)	[mm] (inch)	←
Weigh brack	nt (excluding ets)	g mounting	0.3kg		←
	atible softw	/are	GT Designer3 Version1.1	8U or later	GT Works3 Version1.131M or later
Orien	tation		Horizontal or vertical		←
Produ	ıct installatio	on spacing	p,39 reference		p,39 reference
Installation position		on	p,41 reference		p,41 reference
Powe	r supply vol	ltage	24 V DC (+10%, -15%)		←
Power consumption	Backlight	ON	2.2W or less		2.2W or less
sumption	Backlight OFF		1.7W or less		1.5W or less

^{*1} This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

3.4 GT1030-H□D(W)2 and GT2104-PMBDS2 comparison

14		Used models		Recommended replacement models
Item		GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2104-PMBDS2
Conformity standard		CE (EMC, RoHS), UL/cU	L, and KC	←
D.	Туре	STN monochrome (white	/black) liquid crystal	TFT monochrome liquid crystal
spla	Screen size	4.5"		←
Display section	Resolution	288 ×96 dots		384 × 128 dots
ctior	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W109.4 (4.31) × H36.5 (1.44) [mm] (inch)
_	Display character	16-dot standard font: 18 c	characters × 6 lines	16-dot standard font: 24 characters × 8 lines
		12-dot standard font: 24 c	characters × 8 lines	12-dot standard font: 32 characters × 10 lines
	Display color	Monochrome (white/black	()	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/m³] (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	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	and screen save time setting can be set.		Approx. 50000 h (operating ambient temperature: 25 °C, display brightness: 50%)
전	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>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	←

Item			Used models		Recommended replacement models
			GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT2104-PMBDS2
Me	User men	nory	Built-in flash memory (1.	.5 MB or less)	Built-in flash memory (6 MB or less)
Memory	Life (Number of times)	of write	100000 times		←
Battery	Type Life		GT11-50BAT type lithium Approx. 5 years (operation 25 °C)	n battery ing ambient temperature:	←
Built-in interface	RS-422/ 485	Specifi cations	1 channel Connector shape: Conne	ector terminal block 9 pins	←
inter	(side)		Application: PLC commu	unication	
face		Cables	Example: GT10-C30R4-	-8PC	←
-	RS-232	Specifi	1 channel	5 11.6 1 (5 1)	1 channel
	(side)	cations	Connector shape: MINI Application: Personal co barcode reader co	. , ,	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 lo	oader	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)		←
Exteri	nal dimensi	ons	W145 (5.71) × H76 (2.99) × D29.5 (1.16) [mm] (inch)		←
	cutting dim		W137 (5.39) × H66 (2.60 0.3kg	0) [mm] (inch)	←
	atible softw	/are	GT Designer3 Version1.	18U or later	GT Works3 Version1.137T or later
Orien	tation		Horizontal or vertical		←
Product installation spacing		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%)		←
Power con	Backlight	ON	1.9W or less		2.2W or less
Power consumption	Backlight OFF		1.2W or less		1.5W or less

^{*1} This cable is usable for the FA transparent function only. (It cannot be used to write the package data.)

3.5 GT1030-H_□L(W) and GT2104-PMBLS comparison

		Used models		Recommended replacement models
Item		GT1030-HBL GT1030-HWL	GT1030-HBLW GT1030-HWLW	GT2104-PMBLS
Conformity standard		CE (EMC, RoHS), UL/cU	L, and KC	←
D:	Туре	STN monochrome (white	/black) liquid crystal	TFT monochrome liquid crystal
spla	Screen size	4.5"		←
Display section	Resolution	288 ×96 dots		384 ×128 dots
ction	Display size	W109.42 (4.31) × H35.98	(1.42) [mm] (inch)	W109.4 (4.31) × H36.5 (1.44) [mm] (inch)
_	Display character	16-dot standard font: 18 d	characters × 6 lines	16-dot standard font: 24 characters × 8 lines
		12-dot standard font: 24 c	characters × 8 lines	12-dot standard font: 32 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/m²] (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 0 and labe	5 -1 - 1 - 5 (-1.1
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	←

			Used models		Recommended replacement models
Item			GT1030-HBL GT1030-HWL	GT1030-HBLW GT1030-HWLW	GT2104-PMBLS
S User memory		nory	Built-in flash memory (1.5	MB or less)	Built-in flash memory (6 MB or less)
Memory	Life (Number times)	of write	100000 times		←
Ва	Туре		GT11-50BAT type lithium	battery	←
Battery	Life		Approx. 5 years (operating 25 °C)	g ambient temperature:	←
Bu	RS-422	Specifi	1 channel		←
Built-in interface	(side)	cations	Connector shape: Connec		
erfac		Cables	Example: GT10-C30R4-8	PC	←
Ö	RS-232	Specifi	1 channel		-
	(back)	cations	Connector shape: MINI D	IN 6 pins (Female)	
			Application: Personal com	nputer connection,	
			barcode reader connection, or serial printer		
		0.11	connection		
	LICD (Day	Cables	Example: GT01-C30R2-6		4 sharped manifestors throught mater Full Connect 42
	USB (Dev	rice)	Mounting the separately s is required.	601d G110-R52105B-55	1 channel, maximum transfer rate: Full-Speed 12 Mbps
			io roquirou.		Connector shape: USB Mini-B (back)
					Application: Personal computer connection
	Memory le	oader	The separately sold GT10-LDR		-
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)		
Pane	l cutting dim	nensions	W137 (5.39) × H66 (2.60) [mm] (inch)		←
Weigl brack	•	g mounting	0.28kg		←
Comp packa	oatible softw age	/are	GT Designer3 Version 1.1	8U or later	GT Works3 Version 1.137T or later
Orien	tation		Horizontal or vertical		←
Produ	Product installation spacing		p,39 reference		p,39 reference
	Installation position		p,41 reference		p,41 reference
	Power supply voltage		5 V DC (+5%, -5%) Power from the PLC		←
Power consumption	Power Cor		1.1W or less		←
sumption	Backlight	OFF	0.6W or less		0.7W or less
os			Installed before shipment		Installed by user

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

Itom		Used models		Recommended replacement models
Item		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 ²] (White)	Nondisclosure
	Intensity 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			
	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)	←
	Simultaneous press	Not allowed		←
	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
Memory	Life (Number of	<u>-</u>	Built-in flash memory (51, 100000 times	2kB or less)	Built-in flash memory (3 MB or less) ←
Battery	times) Type		-		-
ery	Life		-		-
Built-in interface	RS-422/ 485 (side)	Specifi cations	1 channel Connector shape: Conne Application: PLC commun		←
erfa	,	Cables	Example: GT10-CuuR4		←
Ce	RS-232 (back)	Specifi cations	1 channel Connector shape: MINI D Application: Personal con barcode reader co	NN 6 pins (Female)	1 channel Connector shape: MINI DIN 6 pins (Female) Application: Personal computer connection*1, PLC communication, barcode reader connection,
			connection		or serial printer connection
	USB (Device)		Example: GT01-C30R2-6P Mounting the separately sold GT10-RS2TUSB-5S is required.		1 channel, maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B (back)
	Memory loader		The separately sold GT10-LDR		The separately sold SD card (SDHC card supporte (max. 32 GB))*2
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←
Prote	ctive structu	ıre	Equivalent to IP67F (front section)		←
	nal dimensi		W113 (4.45) × H74 (2.91) × D27 (1.06)		←
Panel	cutting dim	ensions	W105 (4.13) × H66 (2.60) [mm] (inch)		←
Weigh brack	nt (excluding	g mounting	0.2kg		←
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
Orien	tation		Horizontal or vertical		←
Produ	ıct installatio	on spacing	p,39 reference		p,39 reference
Installation position		on	p,41 reference		p,41 reference
Powe	r supply vol	tage	24 V DC (+10%, -15%)		←
Power consumption	Backlight	ON	1.9W or less		←
າsumption	Backlight	OFF	1.2W or less		1.3W or less
os	I.		Installed before shipment		Installed by user

^{*1} 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.

3.7 GT1020-LDD(W)2 and GT2103-PMBDS2 comparison

		Used models		Recommended replacement models
Item		GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	GT2103-PMBDS2
Conformity standard		CE (EMC, RoHS) and UL	/cUL	←
D.	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
ctior	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	p: 20 degrees, Bottom: 30	Nondisclosure
		degrees		
		(Horizontal format)		
	Contrast adjustment	16-level adjustment		-
	Intensity of LCD	200[cd/m³](Green)	300[cd/m³](White)	Nondisclosure
	only			
	Intensity adjustment	_		32-level adjustment
	Life	Approx. 50000 h.		-
	5	(operating ambient temperature: 25 °C, contrast:		
		1/5)	, atai	
	Maximum number of	1024 screens		2048 screens
	screens that can be			
	registered			
Ва	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)
ght		and red)	red)	
		(Not replaceable)	(Not replaceable)	
	Function	Status control (color, on/fl	ashing/off) is available	←
		and screen save time sett	ing can be set.	
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
δ	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
pane	keys	include Window screen.)		include Window screen.)
<u>v</u>	Key size	Minimum 2 ×2 dots (per k	ey)	←
	Simultaneous press	Not allowed		←
	Life	1 million times or more (o	perating force 0.98N	←
		max.)		

			Used models		Recommended replacement models
Item			GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	GT2103-PMBDS2
Memory	User men Life (Number of times)		Built-in flash memory (51: 100000 times	2 KB or less)	Built-in flash memory (3 MB or less) ←
Battery	Туре		-		-
ery	Life		-		-
Built-in interface	RS-232 (side)	Specifi cations	1 channel Connector shape: Conne Application: PLC commun		←
rfac		Cables	Example: GT10-C30R2-8	Р	←
Ф	RS-232 (back)	Specifi cations	1 channel Connector shape: MINI D Application: Personal con barcode reader con 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	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)
	Memory loader		The separately sold GT10-LDR		The separately sold SD card (SDHC card supporte (max. 32 GB))*2
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←
Prote	ctive structu	ıre	Equivalent to IP67F (front section)		←
Exter	nal dimensi	ons	W113 (4.45) × H74 (2.91) × D27 (1.06)		←
Panel	cutting dim	ensions	W105 (4.13) × H66 (2.60) [mm] (inch)		←
Weigl brack	nt (excluding	g mounting	0.2kg		←
	atible softw	/are	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
Orien	tation		Horizontal or vertical		←
Produ	ıct installatio	on spacing	p,39 reference		p,39 reference
Installation position		on	p,41 reference		p,41 reference
Power supply voltage		tage	24 V DC (+10%, -15%)		←
Power cor			1.9W or less		2.2W or less
Power consumption	Backlight OFF		1.2W or less		1.6W or less

^{*1} 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 GT1020-L□L(W) and GT2103-PMBLS comparison

		Used models		Recommended replacement models
Item		GT1020-LBL GT1020-LWL	GT1020-LBLW GT1020-LWLW	GT2103-PMBLS
Confo	ormity standard	CE (EMC, RoHS) and UL/cUL		←
□.	Туре			TFT monochrome (white/black) liquid crystal
Display section	Screen size	3.7"		3.8"
y se	Resolution	160 × 64 dots		320 ×128 dots
ctior	Display size	W86.4 (3.4) × H34.5 (1.3	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 d	characters ×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	κ)	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)	300[cd/m²](White)	Nondisclosure
	Intensity 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			
	registered			
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 and screen save time set		-
	Life	-		Approx. 50000 h
				(operating ambient temperature: 25 °C, display
				brightness: 50%)
Тo	Method	Analog resistive film toucl	h 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 2 ×2 dots (per k	ey)	←
	Simultaneous press	Not allowed		←
	Life	1 million times or more (o max.)	perating force 0.98N	←

			Used models		Recommended replacement models
Item			GT1020-LBL GT1020-LWL	GT1020-LBLW GT1020-LWLW	GT2103-PMBLS
Me	User mem	nory	Built-in flash memory (51	2 KB or less)	Built-in flash memory (3 MB or less)
Memory	Life		100000 times		←
~	(Number o	of write			
т	times)				
Battery	Туре		-		-
₹	Life		-		-
Bui	RS-422	Specifi	1 channel		←
Built-in interface	(side)	cations	Connector shape: Conne	ector terminal block 9 pins	
inte			Application: PLC commu	nication/power feeding	
ґасс		Cables	Example: GT10-C30R4-	8P	←
W	RS-232	Specifi	1 channel		-
	(back)	cations	Connector shape: MINI DIN 6 pins (Female)		
			Application: Personal computer connection,		
			barcode reader co	onnection, or serial printer	
			connection		
		Cables	Example: GT01-C30R2-6P		-
	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)
	Memory lo	oader	The separately sold GT10-LDR		-
Buzze	er output		Single tone (LONG/ SHORT/ OFF adjustable)		←
Prote	ctive structu	ıre	Equivalent to IP67F (from	nt section)	←
Exter	nal dimensi	ons	W113 (4.45) × H74 (2.91) × D27 (1.06)	←
Panel	cutting dim	ensions	W105 (4.13) × H66 (2.60)) [mm] (inch)	←
Weigl	nt (excludin	g mounting	0.18kg		←
brackets)					
Compatible software		/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	
			Version 2.35M or later	Version 2.55N or later	
Orien	tation		Horizontal or vertical		←
Produ	ıct installatio	on spacing	p,39 reference		p,39 reference
Instal	lation position	on	p,41 reference		p,41 reference
Powe	r supply vol	tage	5 V DC (+5%, -5%) Pow	er from the PLC	←

		Used models		Recommended replacement models
Item		GT1020-LBL GT1020-LWL	GT1020-LBLW 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	

[Issue No.] GOT-A-0152-A

4. Software specifications comparison

4.1 GOT105□ and GT2105-Q comparison

4.1	.1 GOT105□ and GT2105-Q comparison					
	models			Recommended replacement models	Precaution during replacement	
Common setting	GOT environmental	System security setting	\rightarrow	GT2105-Q Functional operation security	System security setting in GOT1000 becomes "functional operation security" and "data transfer security" in	
າ setting	Comment	Basic comment	\rightarrow	Data transfer security Comment group No. 256	GOT2000. 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	→	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'	→	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.	
Object	Word Switch	Initial value condition	→	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: $0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1$ <gt21 model=""> Device value: $0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 10 \rightarrow 0 \rightarrow 1$</gt21></gt10>	

Used	d models			Recommended replacement models	Precaution during replacement
GT10	GT105□			GT2105-Q	
Object	Numerical input	Adjust decimal point range Input case	→	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	→	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	→ →	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 <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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4.2 GOT104□ and GT2104-R comparison

Used	Used models			Recommended replacement models	Precaution during replacement
GT10	GT104□			GT2104-R	
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. If GT1040 (monochrome liquid crystal) is used, adjusting the startup logo may be required since its color is changed from 16 scales to 65536 colors.
	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.
		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'	\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 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.

	l models			Recommended replacement models	Precaution during replacement
GT10 Object	Word Switch	Initial value condition	→	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
					 Condition Value: 10 Reset Value: 0 <gt10 model=""> Device value: 0 → 1 → 2 → ··· → 8 → 9 → 0 → 1</gt10> <gt21 model=""> Device value: 0 → 1 → 2 → ··· → 8 → 9 → 10 → 0 → 1</gt21>
	Numerical input	Adjust decimal point range Input case	→	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	Used models			Recommended replacement models Precaution during replacement	Precaution during replacement
GT10	04□			GT2104-R	
Object	Numerical input Numerical display	Data operation	→	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	→	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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4.3 GOT1030 and GT2104-P comparison

Used	d models			Recommended replacement models	Precaution during replacement
GT10	030			GT2104-P	
Common setting	GOT environmental setting	System security setting	\rightarrow	Functional operation security Data transfer securit'	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.
		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'	\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 GOT1030 model and GT2104-P model differ, adjusting the layout may be required.
Screen property	Backlight color	Green, red, and orange White, red, and orange	→	Green, orange, white, pink, and red	Although the backlight colors differ depending on model in GT1030, GT2104 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 GT2104-P is displayed with white backlight (fixed). It is not displayed with green.

Used	l models			Recommended replacement models	Precaution during replacement
GT10	030			GT2104-P	, roommon ammigropiaconioni
Object	Word Switch	Initial value condition	→	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: $0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1$ <gt21 model=""> Device value: $0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 10 \rightarrow 0 \rightarrow 1$</gt21>
	Numerical input	Adjust decimal point range Input case	→	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	→	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 GT10	I models			Recommended replacement models GT2104-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 GOT2000.
	Alarm history display	Alarm history display	→	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 GOT1020 and GT2103-P comparison

Used	l models			Recommended replacement models	Precaution during replacement
GT10	GT1020			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.
		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'	→	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 Startup logo	\rightarrow	Green, orange, white, pink, and red Startup logo	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 of GT2103-P is displayed with white backlight
					(fixed). It is not displayed with green.

Used	l models			Recommended	
	- modelo			replacement models	Precaution during replacement
GT10)20			GT2103-P	
Object	Word Switch	Initial value condition	→	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 • Reset Value: 0 $ < GT10 \mod P > Device \ Value: 0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 0 \rightarrow 1 $ $ < GT21 \mod P > Device \ Value: 0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 8 \rightarrow 9 \rightarrow 10 \rightarrow 0 \rightarrow 1 $
	Numerical input	Adjust decimal point range Input case	→	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	→	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	i models			Recommended replacement models	Precaution during replacement
GT10	020			GT2103-P	
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.

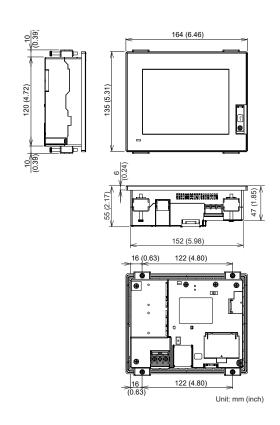
5. External dimensions comparison

5.1 GT105□ and GT2105-Q comparison

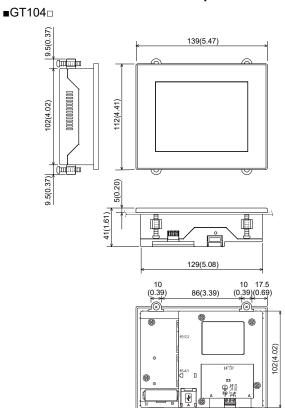
■GT105□

164(6.46) 152(6.98) 152(6.98) 16(0.63) 152(6.98) 16(0.63) 120(4.72)

■GT2105-Q

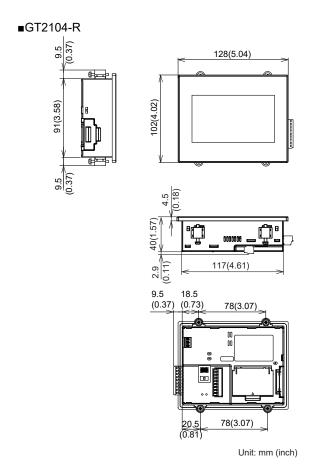


5.2 GT104□ and GT2104-R comparison



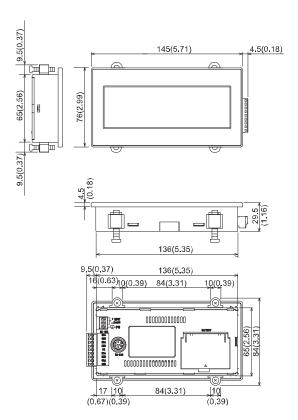
86(3.39)

40(1.57)

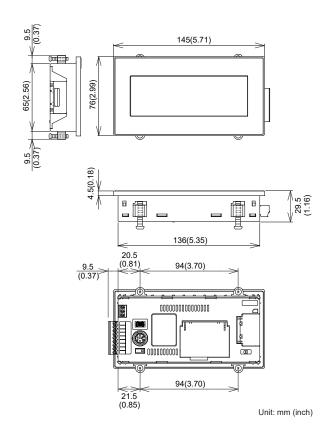


5.3 GT1030 and GT2104-P comparison

■GT1030

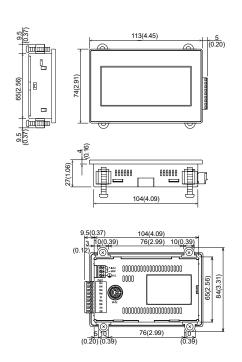


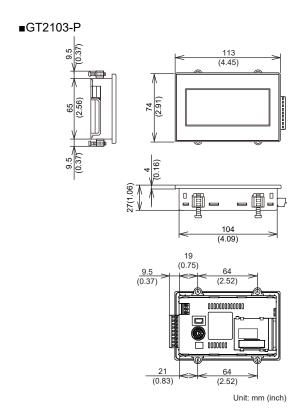
■GT2104-P



5.4 GT1020 and GT2103-P comparison

■GT1020





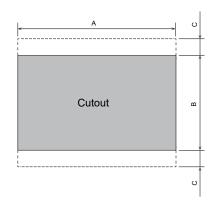
6. Panel cutout dimensions comparison

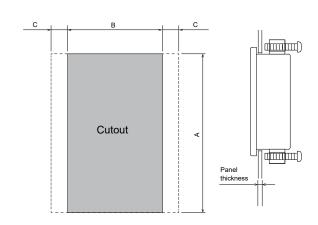
Make holes in the panel according to the dimensions below. Space at the top and bottom is required for mounting fixtures.

Unit: mm (inch)









6.1 GT105□ and GT2105-Q comparison

	Used models	Recommended replacement models
	GT105□(GOT1000)	GT2105-Q(GOT2000)
A	153 (6.02) ^{+2 (0.08)}	153 (6.02) +2 (0.08)
В	121 (4.76) +2 (0.08)	121 (4.76) +2 (0.08)
С	10 (0.39) or more	10 (0.39) or more
Panel thickness	Within 2 (0.08) to 5 (0.20)	Within 1.6 (0.06) to 4 (0.16)

6.2 GT104□ and GT2104-R comparison

<u></u>			
	Used models	Recommended replacement models	
	GT104□(GOT1000)	GT2104-R(GOT2000)	
Α	130 (5.12) +1 (0.04)	118 (4.65) +1 (0.04)	
В	103 (4.06) $^{+1}_{0}$ (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)	

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6.3 GT1030 and GT2104-P comparison

	Used models	Recommended replacement models
	GT1030(GOT1000)	GT2104-P(GOT2000)
Α	137 (5.39) +1 (0.04)	
В	66 (2.60) ^{+1 (0.04)}	
С	13 (0.51) or more	
Panel thickness	Within 1 (0.04) to 4 (0.16)	

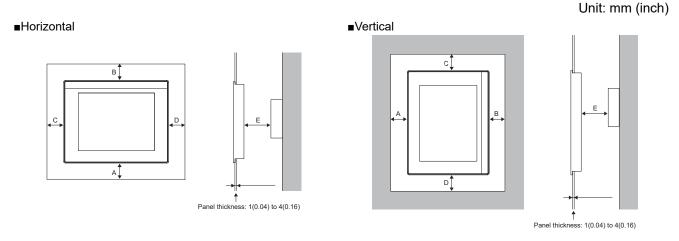
6.4 GT1020 and GT2103-P comparison

	0u.u 0u.u 0		
	Used models	Recommended replacement models	
	GT1020(GOT1000)	GT2103-P(GOT2000)	
Α	105 (4.13) +1 (0.04)		
В	66 (2.60) ^{+1 (0.04)}		
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.



7.1 GT105□ and GT2105-Q comparison

		Used models	Recommended replacement models
		GT105□ (GOT1000)	GT2105-Q (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
Е		100 (3.94) or more (20 (0.79) or more*1)	80 (3.15) or more (20 (0.79) or more*2)

^{*1 80 (3.15)} or more if a USB cable or a memory board is used.

7.2 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
Е		100 (3.94) or more (20 (0.79) or more*1)	80 (3.15) or more (20 (0.79) or more*2)

^{*1 80 (3.15)} or more if a USB cable or a memory board is used.

^{*2 80 (3.15)} or more if an RS-232 cable or a USB cable is connected to the back side of the GOT.

^{*2 80 (3.15)} or more if an RS-232 cable or a USB cable is connected to the back side of the GOT.

7.3 GT1030 and GT2104-P comparison

		Used models	Recommended replacement models
		GT1030(GOT1000)	GT2104-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
Е		80 (3.15) or more (20 (0.79) or more*2)	80 (3.15) or more (20 (0.79) or more*3)

^{*1 50 (1.97)} or more if an RS-232/USB conversion adapter is used.

7.4 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)

^{*1 80 (3.15)} or more if an RS-232 cable or a personal computer connection cable is used for GT2103-PMBDS.

^{*2 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.

^{*3 80 (3.15)} or more if an RS-232 cable or a USB cable is connected to the back side of the GOT.

^{*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.

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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 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 GT2105-Q comparison

GOT	GT105□	GT2105-Q
Protective cover for oil	GT05-50PCO	←

■GT104□ and GT2104-R comparison

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

■GT1030 and GT2104-P comparison

GOT	GT1030	GT2104-P
Protective cover for oil	GT10-30PCO	←

■GT1020 and GT2103-P comparison

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

REVISIONS

Version	Print Date	Revision
-	July 2020	- First edition
Α	December 2020	- Revised: Descriptions of "2. Recommended replacement models"