Performance specifications

Item		GT1030-HBD / GT1030-HWD / GT1030-HBL / GT1030-HWL	GT1030-HBDW / GT1030-HWDW / GT1030-HBLW / GT1030-HWLW	GT1030-HBD2 / GT1030-HWD2	GT1030-HBDW2 / GT1030-HWDW2	GT1020-LBD / GT1020-LWD / GT1020-LBL / GT1020-LWL	GT1020-LBDW / GT1020-LWDW / GT1020-LBLW / GT1020-LWLW	GT1020-LBD2 / GT1020-LWD2	GT1020-LBDW2 / GT1020-LWDW2
Display[*1]	Type	STN monochrome (black/white) LCD							
	Screen size	4.5"				3.7"			
	Resolution	288 × 96 [dots] (in horizontal mode)				160 × 64 [dots] (in horizontal mode)			
	Display size	109.42(W) × 35.98(H)[mm](in horizontal mode)				86.4(W) × 34.5(H)[mm](in horizontal mode)			
	No. of displayed characters	16-dot standard font: 36 chars. × 6 lines (1-byte) or 18 chars. × 6 lines (2-byte) (in horizontal mode) / 12-dot standard font: 48 chars. × 8 lines (1-byte) or 24 chars. × 8 lines (2-byte) (in horizontal mode)				16-dot standard font: 20 chars. × 4 lines (1-byte) or 10 chars. × 4 lines (2-byte) (in horizontal mode)			
	Display colors	Monochrome (black/white)							
	View angle	Right/left: 30°, Up: 20°, Down: 30°(in horizontal display mode)							
	Contrast adjustment	16-step adjustment							
	Intensity	200 [cd/m²] (in green)	500 [cd/m²] (in white)	200 [cd/m²] (in green)	500 [cd/m²] (in white)	200 [cd/m²] (in green)	300 [cd/m²] (in white)	200 [cd/m²] (in green)	300 [cd/m²] (in white)
	Intensity adjustment	8-step adjustment				–			
	Life	Approx. 50,000 hours (Time for display contrast reaches 20% at operating ambient temperature of 25°C)							
Backlight	Color	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)
	Function	Status control (color, on/flashing/off) is available and screen save time setting can be set. PLC can control color and status of backlight based on system information.							
Touch panel	Type	Matrix resistive type				Analog resistive type			
	No. of touch keys	Max. 50 keys/screen							
	Key size	Min. 16 × 16 [dots] (per key)				Min. 2 × 2 [dots] (per key)			
	No. of simultaneous touch points	Max. 2 points				Impossible (If there is a switch near the center of the pressed keys, the switch may function.)			
	Life	1,000,000 times or more (operating force 0.98N or less)							
Memory	User memory[*2]	Built-in flash memory for saving project data (1.5MB or less) and OS				Built-in flash memory for saving project data (512KB or less), OS, alarm history, recipe data, time action set values			
	Life (No. of writings)	100,000 times							
Battery		GT11-50BAT type lithium battery				–			
	Backed up data	Clock data, alarm history, recipe data, time action set values				–			
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)				–			
Built-in interface	For communication with PLC	GT1030-HBD/HWD, GT1030-HBDW/HWDW RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC Terminal resistance[*3]: OPEN/110Ω/330Ω (switched by terminal resistance transfer switch) — GT1030-HBL/HWL, GT1030-HBLW/HWLW RS-422, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC		RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC		GT1020-LBD/LWD, GT1020-LBDW/LWDW RS-422/485 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC Terminal resistance[*3]: OPEN/110Ω/330Ω (switched by terminal resistance transfer switch) — GT1020-LBL/LWL, GT1020-LBLW/LWLW RS-422 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC		RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC	
	For communication with personal computer	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Mini DIN 6-pin (female) Application: Communication with personal computer (project data read/write, OS installation, transparent function)							
Buzzer output		Single tone (tone length adjustable/none)							
Protective construction[*4]		Conforming to IP67f (front panel)							
External dimensions		145(W) × 76(H) × 29.5(D)[mm]				113(W) × 74(H) × 27(D)[mm]			
Panel cut dimensions		137(W) × 66(H)[mm]				105(W) × 66(H)[mm]			
Weight		GT1030-H□D(W): 0.3kg (excl. mounting brackets) GT1030-H□L(W): 0.28kg (excl. mounting brackets)		0.3kg (excl. mounting brackets)		GT1020-L□D(W): 0.2kg (excl. mounting brackets) GT1020-L□L(W): 0.18kg (excl. mounting brackets)		0.2kg (excl. mounting brackets)	
Applicable software packages		GT Works3 Version1.31H or later (not supported GT Works2/GT Designer 2)				GT Works3 Version1.31H or later			