

FCL Components Thermal Printer

FTP-62GUSL001 FTP-62GUSL101 (High Speed)

FCL Components 2" high speed (170mm/s) thermal printer unit with cutter option

Overview

The FTP-62GUSL series thermal printer (driven by 24VDC) provides high speed printing (170mm/s) for 2-inch wide paper.

The series is suitable for a variety of applications, such as POS/ECR, kiosk terminals, ticket machines, banking machines, measuring devices, medical equipment, etc.

Features

- High-speed printing
 It can print at 170mm/s (1,360 dotlines/s) maximum by using FCL
 Components' unique head drive control
- FCL Components' unique platen release mechanism
- Auto Cutter Full cut or partial cut commands available. FCL unique jam free mechanism allows easy maintenance when jam occurs.
- Compact size
 FTP-62GUSL001: Depth: 93mm, width: 92mm, height: 115.4mm
 FTP-62GUSL101: Depth: 96.3mm, width: 97.2mm, height: 119mm
- High resolution8 dots/mm head provides clear print out
- RoHS compliant



FTP-62GUSL001



FTP-62GUSL101

Part numbers

Item		Part Number
Printer unit Panel mount		FTP-62GUSL001 (Japanese/ Traditional Chinese font types)
	Metal frame	FTP-62GUSL101 (Japanese/Traditional Chinese font types)
Interface cable	USB	FTP-62GY311#01
	RS-232C	FTP-62GY302
Power supply cable	Logic, head, motor	FTP-629Y603

■ Driver software

Item	Operating system
Driver	Windows® 10 64bit, Windows 11 64bit, Linux*1
SDK	OPOS, Android

^{*1:} Linux drivers are are available to our customers by request; please contact us for details.

■ Specifications

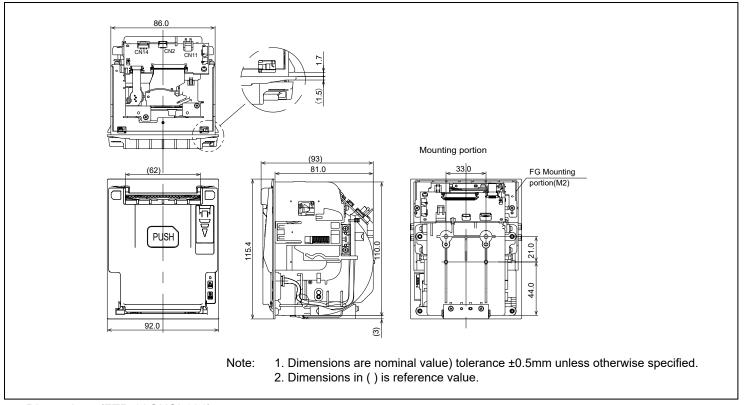
Item		Specifications					
Part number		FTP-62GUSL001	FTP-62GUSL101				
Printing method		Thermal sensitive line dot method					
Dot structure		432 dots/lines	432 dots/lines				
Dot pitch (horizor	ntal)	0.125mm (8 dots/mm) - Dot	0.125mm (8 dots/mm) - Dot density				
Dot pitch (vertical	1)	0.125mm (8 dots/mm) - Line	0.125mm (8 dots/mm) - Line feed pitch				
Effective printing	area	54mm					
Number of colum	ns	ANK 36 columns/line (12 x 2	24 x dot font)				
Paper width		58mm +0/-1					
Paper thickness		60-100µm*1					
Paper roll diamet	er	Max. Ø83mm	Max. Ø83mm				
Cutting type		Full or partial					
Printing speed		170mm/s (1,360 dot lines/s)					
Print mode		Line / page					
Character types	Alphanumeric KANA	159 types					
	International and special	195 types					
	OCRI	103 types					
	OCRIII	23 types					
	OCRIV	103 types					
	Extended numeric	12 types					
	Thai code 18	128 types					
	Download	224 types					
	External characteres	94 types					
	JIS KANJI	6,879 types					
	Traditional Chinese (big5)	13, 503 types					
Font		ANK, Thai, JIS KANJI, Trad	itional Chinese				

^{*1:} There may be exceptions

Item		Specifications				
Part number		FTP-62GUSL001 FTP-62GUSL101				
Bar codes	1D	UPC-A, UPC-E, JAN(EAN)13, JAN(EAN)8, CODE 39, ITF, CODABAR, CODE128, GS1 DataBar-14, GS1 DataBar-14 Truncated, GS1 DataBar Limited				
	2D	QR Code, GS1 DataBar-14 stacked, GS1 DataBar-14 Omnidirectional, GS1 DataBar-14 Expanded, PDF-417				
Bit images	Size	Horizontal: 8 to 432 dots, vertical: 1 to 1,023 dots				
Dit images	Modification	Black/white reversible				
Download im-	Size	Horizontal: 8 to 432 dots, vertical: 1 to 512 dots (memory: 192KB)				
ages	Modification	Black/white reversible, horizontal x 2, vertical x 2, x4, upside down				
Download chara		8x16 ANK, 12x24 ANK, 16x16 ANK, 24x24 ANK, 16x16 KANJI, 24x24 KANJI				
Detection function		Marks, no paper, thermal head temperature irregularity, power voltage irregularity, platen open, cutter irregularity, transmission data irregularity, blowout of fuse hardware irregularity, MCU operation irregularity, thermal head's thermal runawathermal head cable drop, non-volatile memory registration error, RAM irregularity				
Character modifi	cation	Horizontal tab, under line, black-white reversed, positional alignment, line spacir character spacing, font type, font size, code table, 90° clockwise rotation				
Interface standa	rd	RS-232C, USB Ver.2.0 (Full Speed)				
Reset		Reset with software				
Character dimensions (W x H), number of characters		8 x 16 dots, 54 columns, ANK 12 x 24 dots, 36 columns, ANK 16 x 16 dots, 27 columns, ANK 24 x 40 dots, 18 columns, OCRI 24 x 48 dots, 18 columns, OCRIV 24 x 24 dots, 18 columns, ANK 24 x 48 dots, 18 columns, Iarge numeric				
Power voltage		24VDC ±10%				
Power current	Logic	0.1A max.				
	Thermal head	1.5A max. (at 24V, print ratio 12.5%)				
	Paper feed motor	1.5A max.				
	Cutter motor	1.5A max.				
Dimensions (Wx	DxH)	92.0 x 93 x 115.4mm 97.2 x 96.3 x 119.0mm				
Weight		336g 700g				
Expected life	Head	Pulse durability: 100 million pulse/dot (using FCL Components' standard drivin method) Wear resistance: 100km (at 12.5% print ratio)				
	Cutter	1,000,000 cuts min.				
Environmental	Operating temperature	0°C to +50°C (guaranteed, print quality assurance: +5°C to +40°C)				
conditions	Operating humidity	20 to 85% RH (no condensation)				
	Storage temperature	-20°C to +60°C (excluding paper)				
	Storage humidity	5 to 90% RH (no condensation)				
Detection	Head temperature	By thermistor				
functions	Paper out/Mark detect	By photointerrupter				
	Head release	By slide switch				
Recommended	High sensitive paper	TF50KS-E45 (Nippon paper)				
thermal	Standard paper	TF-60KS-E (Nippon paper), PD150R (Oji paper)				
sensitive paper	Medium term paper	TP-60KS-F1 (Nippon paper)				
	Long term paper	PD160R (Oji paper), TF50KJ-R (Nippon paper), HA220AA (Nippon paper)				
MTBF	Mechanism	3,000 hours				

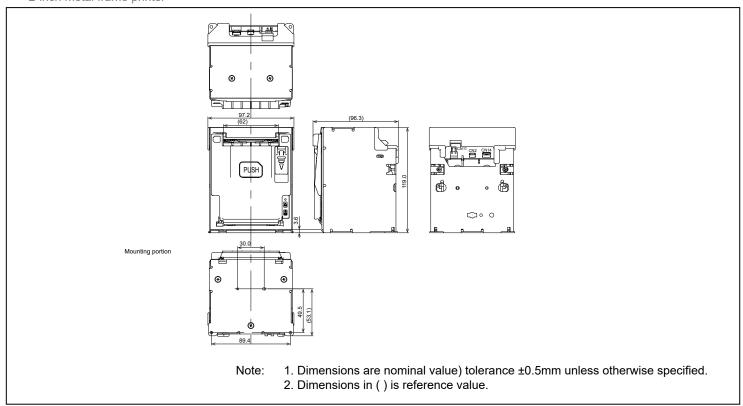
■ Dimensions (FTP-62GUSL001)

• 2-inch panel mount printer



■ Dimensions (FTP-62GUSL101)

· 2-inch metal frame printer



Connector for power supply

Connector for Logic, Head, Motor Power supply (CN11)
 Mating connector part number: VHR-2N (J.S.T). or equivalent

No.	Signal	I/O	Content	No	Signal	I/O	Content
1	Vp	I	+24V power	2	GND	-	Ground

■ RS-232C standard

Connector (CN2)

Mating connector part number: SHR-05V-S (J.S.T.) or equivalent

No.	Signal	I/O	Content	No	Signal	I/O	Content
1	RXD	ı	Receive data	2	TXD	0	Transmission data
3	RTS (DTR)	0	Request to send	4	GND	-	Signal ground
5	CTS (DSR)	I	Clear to send				

■ USB standard

Connector (CN14)

Mating connector part number: GHR-05V-S (J.S.T.) or equivalent

No.	Signal	I/O	Content	No	Signal	I/O	Content	
1	VBUS	ı	VBUS signal	2	D-	I/O	D- signal	
3	D+	I/O	D+ signal	4	GND	-	Ground	
5	FG	-	Frame ground					

Note: Symbol "-" in above tables mean a negative logic signal.

Host Interface

Item		Specifications
Interface standard	RS-232C	9,600bps (460,800bps, 230,400bps, 115,200bps, 38,400bps, 19,200bps - Selectable by command) Communication method: Full duplex communication Synchronous method: Asynchronus Flow control: RTS(DTR)/CTS(DSR) or XON/XOFF – Selectable by command I/O level: RS-232C level
	USB Ver. 2.0 (full speed)	Transmission speed: Full speed (max. 12Mbps) Data input/output format: Differential

[&]quot;I" or "O" means a signal direction from the interface board side (I: Input, O: Output).

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