

Thermal Printer

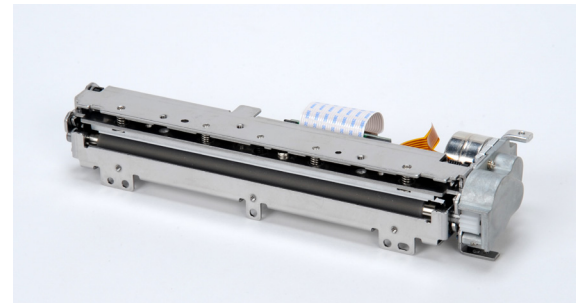
FTP-66EMCL Series (6-inch thermal printer)

12V and 24V, 6" high or low speed, easy loading thermal printer

Overview

The FTP-66EMCL Series, printing on 6-inch wide paper, is an ultra compact thermal printer that can be driven by either 12V or 24V. Our unique platen removal design allows easy access for both loading paper and maintenance. Both high speed and low speed versions are available.

The FTP-66EMCL Series can be used for a variety of applications such as test & measurement equipment, informational kiosks, ticket issuing terminals, label printers and medical equipment.



FTP-66EMCL112-R

Features

- Platen open structure
Paper jam-free / easy maintenance
- Multi-feature metal frame
The rugged metal frame provides excellent ESD performance, is shock/vibration resistant and the heat-sink allows for continuous printing
- 6-inch (156mm) wide paper width
- Label paper available
Straight paper pass
- Printing speed
HIGH SPEED: FTP-66EMCL112-R: it can print at 100mm/s
LOW SPEED: FTP-66EMCL162-R: it can print at 10mm/minute (max. 25mm/s)
- UL File No. E171434
- RoHS compliant

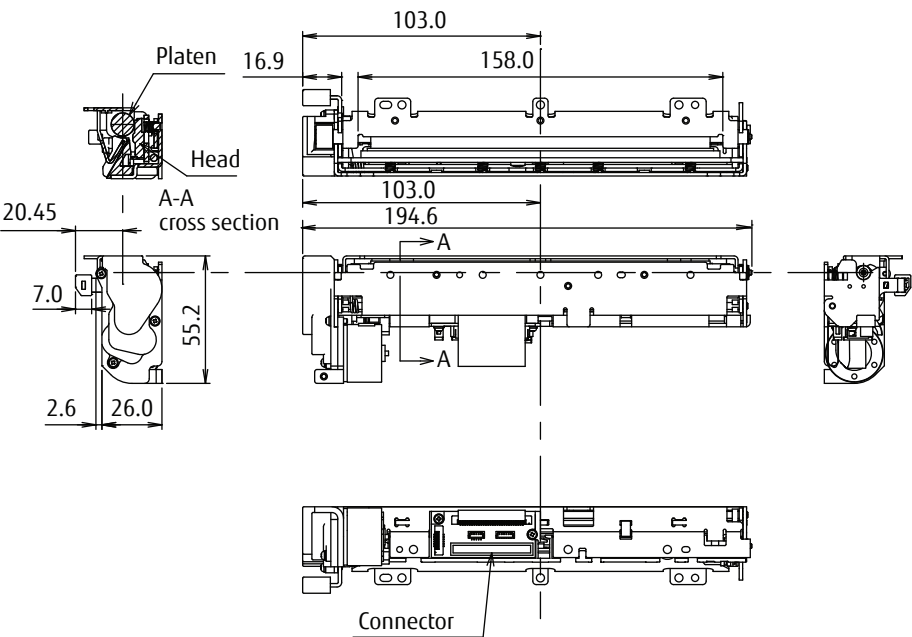
Item		Part Number
Printer mechanism		FTP-66EMCL112-R/162-R (with adaptor board, with lever cap)
Lever cap (optional)		FTP-66EMP0495-R
LSI for driving		FTP-62ECU201-R, FTP-62ECU202-R
Interface board		FTP-62EDSL201-R (For high speed mechanism)
		FTP-62EDSL202-R (For low speed mechanism)
Cables	USB	FTP-62GY311#01-R
	Head	FTP-62EY001-R
	Power	FTP-629Y603-R

Item		Specifications	
Part number		FTP-66EMCL112-R/162-R	
Printing method		Thermal-line dot method	
Dot structure		1152 dots/lines (effective printing dot number 1696 dot/lines)	
Dot pitch (horizontal)		0.125mm (dot density 8 dots/mm)	
Dot pitch (vertical)		0.125mm (dot density 8 dots/mm)	
Effective printing area		144 mm	
Paper	Width	156mm (adaptor is required for 150mm width paper)	
	Thickness	60-100μm	
Operating voltage	For print head	MCL112-R	12V ±10% (538 dots, current peak 8.0A) 24V ±10% (high speed: 256 dots, current peak 8.0A)
		MCL162-R	24V ±10% (low speed; 1050 dots, current peak 8.0A)
	For motor	MCL112-R	12V/24V ±10% current: 1 phase 0.6A, 2 phase: 1.2A
		MCL162-R	24V±10% current: 1 phase 0.4A, 2 phase: 0.8A
	For logic	3.3V ±5% 0.2A maximum or 5V ±5%, 0.3A maximum	
Printing speed	MCL112-R (high speed)		12V max. 50mm/sec. (400 dotlines/sec.)* 24V max. 100mm/sec. (800 dotlines/sec.)*
	MCL162-R (low speed)		24V 10mm/min - 50mm/sec. (400 dotlines/sec.)*
Dimensions	MCL112-R		194.6 x 55.2 x 26.0mm (WxDxH, except lever)
	MCL162-R		208.4 x 57.9 x 30.0mm (WxDxH, except lever)
Weight (Printer mech)	MCL112-R		Approximately: 430g
	MCL162-R		Approximately: 435g
Head life		Pulse resistance: 100 million pulse/dot (under Meiko Electronic Components' standard conditions)	
		Abrasion resistance: paper traveling distance 50km (print ratio: 12.5% or less)	
Operating environment	Operating temperature***		0°C to 50°C
	Operating humidity****		20 to 85% RH
	Storage temperature		-10°C to +60°C
	Storage humidity		5 to 95% RH
Detection function	Head temperature detection		Thermistor
	Paper out / mark detection		Photo sensor
Recommended thermal sensitive paper		High sensitive paper	TF50KS-E4
		Standard paper	PD150R, TF60KS-E*****
		Medium life storage paper	TP60KS-F1*****, P220VBB-1*****
		Long life storage paper	PD160R

- *: At 25°C high speed mode, using specified thermal paper
 **: At 25°C batch printing mode, using specified thermal paper
 ***: +5° to +40°C printing density assurance range
 ****: Gradual decrease 12 to 52%RH in the range of +40°C to +50°C
 *****: Only for high speed type

DIMENSIONS

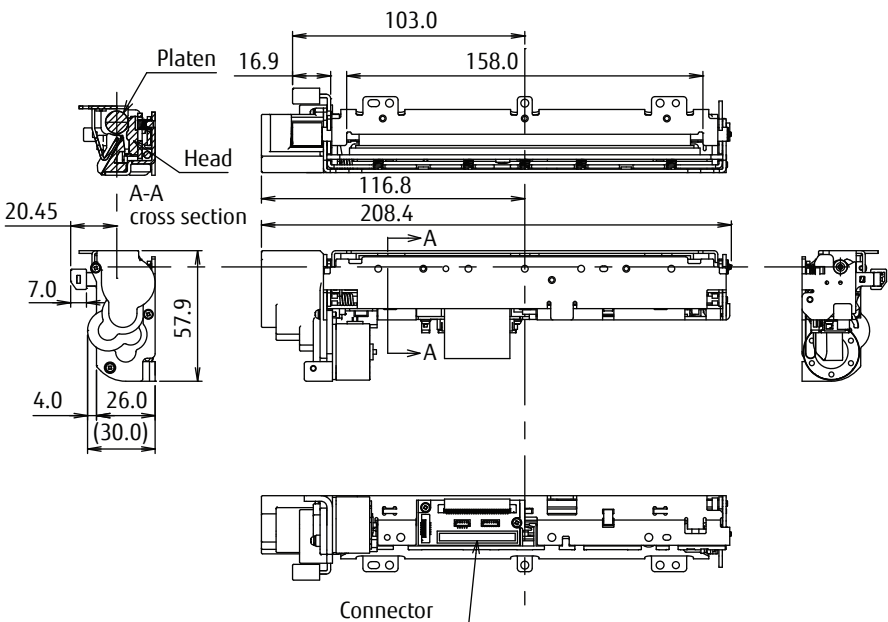
FTP-66EMCL112-R - High Speed



Note: 1. Dimensions are nominal value, tolerance $\pm 0.5\text{mm}$ unless otherwise specified.

Unit: mm

FTP-66EMCL162-R - Low Speed



Note: 1. Dimensions are nominal value, tolerance $\pm 0.5\text{mm}$ unless otherwise specified.

Unit: mm

FTP-66EMCL112-R/162-R

■ Printer connector (head extension connector board) PIN arrays

- Adaptor board side: B34B-PHDSS (LF) (SN) (JST)
- Remote side: PHDR-34VS (JST)

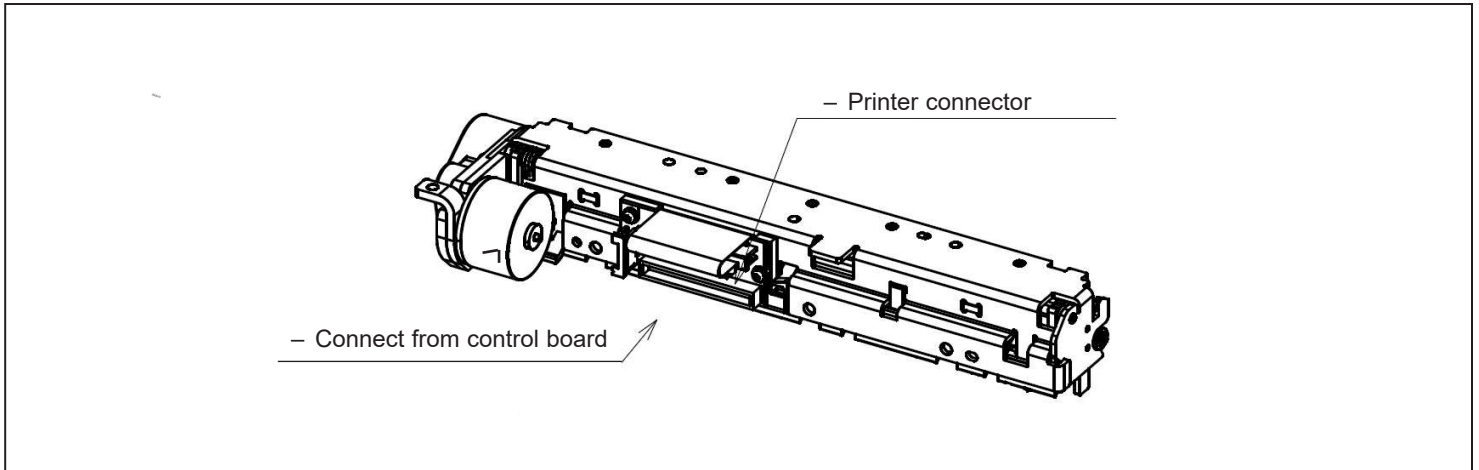
No	Signal	I/O	Contents
1	MTMP	I	Motor temperature detection
2	GND	-	Motor temperature detection ground
3	MT_/A	I	Transporter motor /A excitation signal
4	MT_A	I	Transporter motor A excitation signal
5	MT_B	I	Transporter motor B excitation signal
6	MT_/B	I	Transporter motor /B excitation signal
7	VSEN	I	Paper sensor power
8	PHE	O	Paper sensor out
9	PHK	O	Paper sensor cathode
10	VSEN	I	Mark (hole) sensor power terminal*
11	PHE	O	Mark (hole) sensor output terminal*
12	PHK	O	Mark (hole) sensor cathode terminal*
13	HUP	O	Platen open detection
14	GND	-	3.3V ground for the platen open sensor
15	VH	I	Thermal head power supply
16	VH	I	
17	DO	O	Thermal head data output

No	Signal	I/O	Contents
18	/LAT	I	Thermal head latch input
19	CLK	I	Thermal head clock
20	VDD	I	Thermal head logic power supply
21	/STB1	I	Head strobe 1 signal
22	/STB2	I	Head strobe 2 signal
23	/STB3	I	Head strobe 3 signal
24	GND	-	Power ground
25	GND	-	
26	GND	-	
27	GND	-	Thermal head temperature detection
28	HTMP	O	
29	/STB4	I	
30	/STB5	I	Head strobe 5 signal
31	/STB6	I	Head strobe 6 signal
32	DI	I	Thermal head data input
33	VH	I	Thermal head power supply
34	VH	I	

Do not plug or unplug the FPC when power is on.

FTP-66EMCL112-R/162-R

- Adaptor board type (connector specification)
 - Connector pin array (viewed from relay board side)
 - Adaptor board side: B34B-PHDSS (LF) (SN) (JST)
 - Remote side: PHDR-34VS (JST)



Contact

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