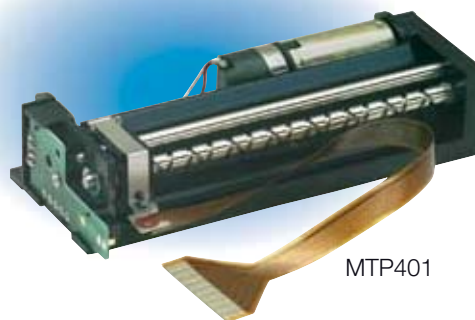
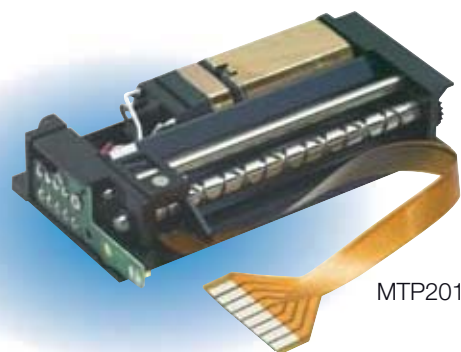
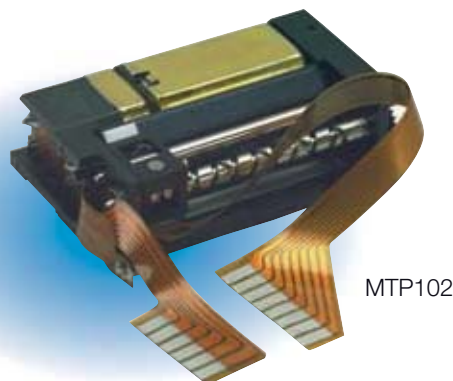


# MTP Series

## MTP SERIES PRINTERS

MTP Series thermal printers offer a wide range of features, making them ideal for applications where size, portability, low power consumption, battery operation and affordability are important factors. MTP Series printers provide the benefit of hardcopy printouts for verifying results or retaining records from an array of small or handheld portable instruments. Small in size and price, the MTP Series printers are widely used in applications such as calculators, measuring instruments, analyzers, medical devices, educational equipment and personal computer terminals.

- Compact, lightweight design
- High reliability
- Suitable for battery operation
- Designed for versatile applications
- Non-impact system



Model	MTP102-16	MTP201-20	MTP201-24	MTP401-40	MTP201G-128	MTP201G-166	
Dot composition	7 x 110	7 x 138	7 x 166	7 x 278	8 x 128	8 x 166	
Printing	Character type						Graphic type
	Method						Thermal serial head system
	Direction						Left to right
	No. of characters	16	20	24	40	18	24
	Timing						Synchronized with Tach-Generator
	Width (mm)	26.4	45.9	46	66.7	44.7	46
	Paper feed pitch (m)	3.8					
	Speed (cl/s)	1.2	1.0	0.9	0.5	0.9	0.9
Speed (cps)	19	20	22	20	16	22	
Detection	Home position						Mechanical switching system
Dimensions (WxDxH) mm	48 x 31 x 13.8	70 x 34 x 14.4		91 x 35.5 x 20		70 x 34 x 14.4	
Mass (g) Approx.	35	40		50		40	
Power supply	Operating voltage						5 VDC ± 1.0
	Current consumption						3.2 A max. (printing) / 250 mA max. (feeding)
Service life	MCTF						500,000 lines
	Failure rate						1 x 10E-6/line max.
Operating temperature (°C)	0 to 50						
Storage environment (°C)	-40 to 60						
Paper	Width (mm)	38 +0/-1	58 0/-1		80 +0/-1	58 +0/-1	
	Path	Curve					
	Thickness (µm)	65 ± 5					

## INTERFACE BOARD & CPU

### IFM001-01B/01BC INTERFACE BOARD FOR MTP SERIES

The IFM001-01B interface board prints data from a host system on all models in the MTP Series. It supports both 8-bit parallel and serial (TTL) input and is equipped with a wide variety of commands including double-width print, character spacing control and inverse print, and can print on a graphic printer.

The IFM001-01BM interface board is also equipped with an EEPROM, allowing downloaded characters to be printed.



IFM001-01B

Model		IFM001-01B / -01BM	
Applicable mechanism		MTP Series Character & Graphic printers	
CPU		HD6433238R43F (SMT) / HD6433238R42P (DIP)	
Input control method		8-bit parallel (Centronics) STROBE, BUSY hand shaking	
		Serial (TTL level) BUSY control, Xon/Xoff control	
Character type		Alphanumeric, Katakana	
		International, extended graphics	
Dimensions (WxDxH) mm		71.5 x 59 x 13.1	
Mass (g)		20	
Operating voltage (Vcc)		5 VDC $\pm$ 0.5	
Current consumption (Icc)	Standby	Max. 27 mA @ 5VDC	
	Printing	Max. 30 mA @ 5VDC	
Operating temperature ( $^{\circ}$ C)		0 to 50	
Storage temperature ( $^{\circ}$ C)		-20 to 60	
Model		PTM01F01	PTM01P01
Applicable mechanism		MTP Series Character & Graphic printers	
Package form		64-pin SMT	64-pin shrink DIP
Dimensions (WxDxH) mm		57.6 x 17.0 x 7.62	17.2 x 17.2 x 2.7
Configuration		C-MOS LSI	
Input method		8-bit parallel (Centronics), Asynchronous serial	
Operating voltage (Vcc)		5 VDC $\pm$ 0.5	
Operating frequency (MHz)		4.91 $\pm$ 0.5%	

#### IFM001-01BC / -01BC

Same specifications as above mentioned, but provided with a connector board, which permits the connecting to the MTP-Series.



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*Specifications subject to change without notice.*