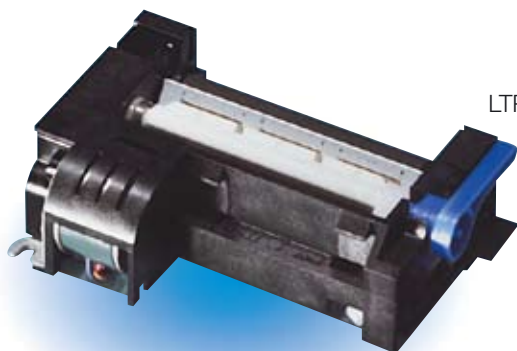# LTP Series

LTP2000 SERIES PRINTERS

The LTP2000 Series answers the need for versatile, high-performance thermal printing in a compact unit. Available in models to handle paper widths of up to 112 mm, the LTP2000 Series combines high printing speeds with high print quality and quiet operation. The rugged and reliable LTP2000 Series features more than four million character lines, and with optional interface, allows for automatic paper loading. The LTP2000 Series offers performance and value for a wide range of popular applications, including measuring instruments, medical equipment, bar code, label and receipt printing, kiosks and gas tank level sensing devices.

- High resolution printing (8 dots/mm)
- High speed printing (90 mm/s attainable with LTP2242)
- Compact and light-weight
- Prints on label stock
- Two possible paper paths, straight or curved; thick paper printing is possible on straight path
- Paper can be automatically loaded when used in conjunction with the paper sensor
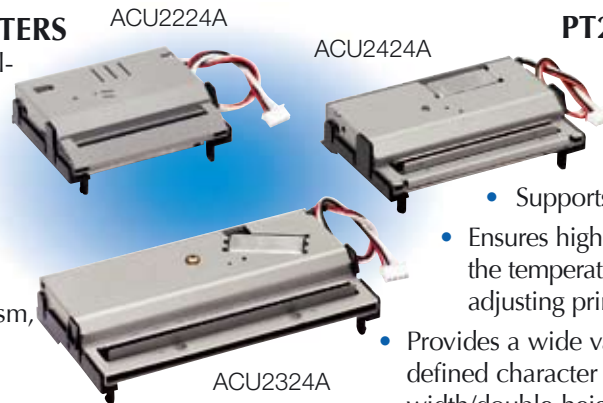- Wide opening head for easy access

LTP2342

LTP2242

LTP2442

Model		LTP2242	LTP2342	LTP2442
Printing	Method	Thermal line dot system		
	No. of dots/line	432	576	832
	No. of characters/line	27	36	52
	Width (mm)	54	72	104
	Resolution	8 dots/mm		
	Paper feed pitch (mm)	0.125		
	Speed (mm/s)	90	75	
	Speed (cl/s)	18	15	
Detection	Head temperature	By thermistor		
	Paper out detection	By photo interrupter		
	Head up detection	By mechanical switch		
Dimensions (WxDxH) mm		85.2 x 61.4 x 27	106.4 x 61.4 x 27	138.2 x 61.4 x 27
Mass (g)	Approx.	115	135	160
Power supply	Operating voltage	24 VDC ± 2.4		
	Current consumption	1.6 A Max. @ 24 Vp (25% print ratio)	2.1 A Max. @ 24 Vp (25% print ratio)	3.1 A Max. @ 24 Vp (25% print ratio)
Service life	Pulse activation	100 million pulses or more (25% print ratio)		
	Abrasion resistance	50km or more		
Operating temperature (°C)		0 to 50		
Storage environment (°C)		-20 to 60		
Paper	Width (mm)	60 +0/-1	80 +0/-1	112 +0/-1
	Path	Straight or curved		
	Thickness (µm)	59 - 125		

ACU2000 SERIES AUTO CUTTERS

ACU2000 Series Auto Cutters are guillotine type cutters developed for the LTP2000 Series thermal line printer mechanism.

ACU2224A

ACU2424A

- Full or partial paper cut (on point remaining uncut) available by command input
- Easily mounts on printer mechanism, opens for easy maintenance

ACU2324A

IF2303 INTERFACE BOARD

The IF2303 is an interface board used specifically for the LTP2000 Series. It is equipped with 8-bit parallel and serial TLL data input terminals. It brings printing functions into full play using a wide variety of characters and function commands.

PT230P03 CPU

- Prints with less current using dynamic division control (via number of dots to be activated)
- Supports both parallel and serial input
- Ensures high-quality print by measuring the temperature and voltage, automatically adjusting print density
- Provides a wide variety of downloadable user-defined character functions including double-width/double-height, inverse print, underlining, and character spacing control
- Supports bit image and character printing, auto paper loading
- Ruler line function enables ruler line and character integration

Model	ACU2224A	ACU2342A	ACU2442A
Cut method		Slide Type	
Cut width (mm)	63	85	116
Cut condition		Full or partial cut (leaving one point, 2 mm wide)	
Drive voltage (Vcc) Motor		24 ± 2.4	
Detector		5 ± 0.25	
Starting current (A)		1.2 max.	
Operating time (ms/cycle)		500 max.	
Cut frequency (cuts/minute)		30 max.	
Life (cuts)		300,000	
Dimensions (WxDxH) mm	79 x 66.5 x 16.5	100 x 66.5 x 17	126 x 69.3 x 17.5
Weight (g)	120	200	260
Operating temperature (°C)		0 to 50	
Storage temperature (°C)		-20 to 60	
Paper thickness (µm)		65 - 125	

Applicable mechanism		All LPT2000 Series	
CPU		PT230P01	
Input control method		8-bit parallel (modified Centronics)	
		Serial (TTL level)	
Character type		IBM compatible, extended graphics character set	
		Downloaded, user-defined characters, Option Font	
Dimensions (WxDxH) mm		90 x 100 x 22	
Weight (g)		70	
Operating voltage		Vcc=5 ± 0.5 V, Vp=24 ± 2.4V	
Current consumption (Icc)		Max. 50 mA @ 5 VDC (standby)	
		Max. 170 mA @ 5 VDC (printing)	
Operating temperature (°C)		0 to 50	
Storage temperature (°C)		-20 to 60	

Applicable mechanism		All LTP2000 Series	
Package form		128-pin QFP	
Dimensions (WxDxH) mm		22 x 16 x 3.1	
Configuration		C-MOS LSI	
Input method		8-bit parallel (Centronics), USB, (TTL) serial	
Operating voltage (Vcc)		5 VDC ± 10%	
Operating frequency (MHz)		18.43 ± 0.5%	

Specifications subject to change without notice.