

LTP Series

LTPH245 PRINTER

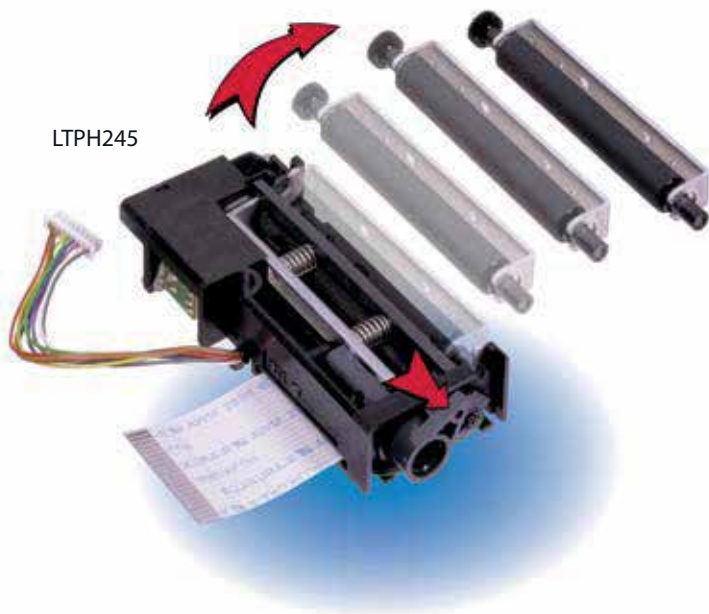
LTP

SII

Seiko Instruments GmbH

The LTPH245 presents the first "Easy-Paper-Operation" thermal line dot printers. It combines compact design, high-speed and high resolution thermal line dot printing with paper installation easier than ever before due to its mobile platen roller. By only pushing the release lever, the platen can be completely released and then firmly re-adjusted to evenly press the paper to the thermal head. The LTPH245 can be used with measuring instruments and analysers, various POS applications as well as communication and data terminal devices. Furthermore, it is a maintenance-free mechanism which also features low-current consumption to support portable devices such as hand-held terminals.

- High resolution printing (8 dots/mm)
- High speed, low voltage printing (25 mm/s @ 5V, 56,25mm/s @ 7.2V, 60 mm/s @ 8.0V)
- Battery operation of 4 to 6 cells Ni-MH / Ni-Cd batteries or 2 cells of lithium-ion batteries for hand-held applications
- Low 4.2V to 8.5V power supply operation
- Improved operability of paper installation and head cleaning by release lever operation
- Compact and lightweight (approx. 46g)
- Low noise thermal line dot printing
- Design to fit easily into the outer case (reduced number of outer case parts)



| Model | | LTPH245 |
|----------------------------|-------------------------------|---|
| Printing | Method | Thermal line dot system |
| | No. of dots/line | 384 |
| | Resolution | 8 dots/mm |
| | Width (mm) | 48 |
| | Paper feed pitch (mm) | 0.125 |
| | Speed (mm/s) | 25.0 @ 5.0V, 56.25 @ 7.2V, 62.5 @ 8.0V |
| Detection | Head temperature | By thermistor |
| | Platen position detection | By mechanical switch |
| | Out-of-paper detection | By photo interrupter |
| Dimensions (WxDxH) mm | | 76.8x38.0x16.0 |
| Weight (g) | | 46 |
| Power Supply | Operating voltage | Vdd line: 4.5V to 5.5V; Vp line: 4.2V to 8.5V |
| | Current consumption (average) | 1 Max.@5V, 3.0 Max.@7.2V, 3.3 Max.@8.0V |
| Service life | Pulse activation | min. 100 million pulses (12.5% print ratio) |
| | Abrasion resistance | 50 km or more |
| Operating temperature (°C) | | -30 to 70 |
| Storage temperature (°C) | | -35 to 75 |
| Paper | Width(mm) | 58 +0/-1 |
| | Path | Curve |
| | Paper feed force | 0.49N (50gf) or more |
| | Paper hold force | 0.78N (80gf) or more |
| | Rhickness | 59µm to 75µm |

¹ Dimensions exclude those of the lever and platen frame
² Weight includes all parts
³ Equivalent to four through six Ni-Cd or Ni-MH batteries, or two Lithium-ion batteries
⁴ When the number of simultaneously activated dots is specified as 64

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CUTTER, INTERFACE BOARD & CPU

ACUH205A AUTO CUTTER

The ACUH205A series is a compact and light-weight circular cut type automatic cutter developed for the LTPH245 printer mechanism. ACUH205A has partial cut.

IFH002-01B INTERFACE BOARD FOR LTPH245

The IFH001-01B is an interface board designed for the LTPH245 and ACU. It processes data obtained from a host device, converts it and transfers it to the LTPH245. The interface is compatible with both parallel and serial data input. It prints characters and bit images as well as extended graphic character sets. IFH002-01B also outputs internal test patterns and gives information about the status of the printer.

PTH01P02 CPU FOR LTPH245

- Individual design-in for various applications
- Firmware to control the printer
- Supports serial and parallel input
- Less current printing by division control according to the number of dots to be activated
- Reduction of current consumption and motor heating by PWM control
- Ensures high quality printing by automatically adjusting the print density according to temperature and voltage
- Superimposing of character data and bit image data

| Model | ACUH205A | |
|---|--|--------------|
| Cut method | Circular cutter type | |
| Cut width (mm) | 58 +0/-1 | |
| Paper thickness (µm) ¹ | 60 to 80 | |
| Paper roll direction tendency | Optional | |
| Cut condition | Partial cut | |
| Drive voltage | Motor | 4.2 to 8.5 V |
| | Detector | 5.0 V +/-10% |
| Operating time (ms/cycle) | 0.8 sec. at 5.0V, 25 °C | |
| Cut frequency (cuts/minute) | 3.0 sec./cycle minimum | |
| Operational life (cuts) | 500.000 | |
| Operating temperature (°C) | -5 to +50 | |
| humidity | 40°C 85%RH or 50°C 35%RH (no condensation) | |
| Storage temperature (°C) | -25 to +70 | |
| humidity | 50°C 90%RH (no condensation) | |
| External dimension (WxDxH) ² | 91.0 x 47.6 x 12.7 | |
| Weight (g) | 46 | |

¹ External diameter of paper core or internal diameter of paper roll must be 20mm or more.
Paper with a strongly rolled edge may not feed the paper outlet.

² Excluding projection

| Model | IFH002-01B | |
|--|---------------------------------|--------------------|
| Character type | Extended graphics character set | |
| | Downloaded character | |
| | Optional font | |
| | User-defined character | |
| Character configuration | 16-dot | 24-dot |
| Standard size character | 16x8 | 24x12 ¹ |
| Kanji size character | 16x16 | 24x24 ¹ |
| Input control method | Parallel (modified Centronics) | |
| | Serial (C-MOS Level) | |
| Operating voltage range | | |
| Vcc | 5V +/- 10% | |
| Vp | 4.2V to 8.5V | |
| Current consumption (Icc) ² | | |
| Stand by | 30mA max. | |
| Printing | 100mA max. | |
| Operating temperature (°C) | 0 to +50 | |
| Storage temperature (°C) | -20 to +60 | |
| Dimensions (WxDxH) mm | 70.0x70.0x11.3 | |
| Weight (g) | 29 | |

¹ The default value is changeable through commands

² Vcc = 5V, 25°C, no error, and when input/output terminal is not connected

| Model | PTH01P02 | |
|----------------------------------|-----------------------|--------------------|
| Applicable printer | LTPH245 | |
| Character configuration | 16 dot | 24dot |
| Extended graphics character set | 16x8 | 24x12 ¹ |
| Downloaded character | 16x8 | 24x12 ¹ |
| User-defined character | 16x16 | 24x24 ¹ |
| Input control method | Parallel (Centronics) | |
| | Serial (C-MOS Level) | |
| Operating voltage | | |
| Vcc | 5V +/- 10% | |
| Vp | 4.2V to 8.5V | |
| Operating frequency | 5MHz +/- 0.5% | |
| Current consumption ² | | |
| Standby | 30mA max. | |
| Printing | 100mA max. | |
| Operating temperature (°C) | -5 to +50 | |
| Storage temperature (°C) | -20 to +60 | |

¹ The default value is changeable through commands

² Vcc = 5V, 25°C, no error, and when input/output terminal is not connected

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Specifications subject to change without notice.