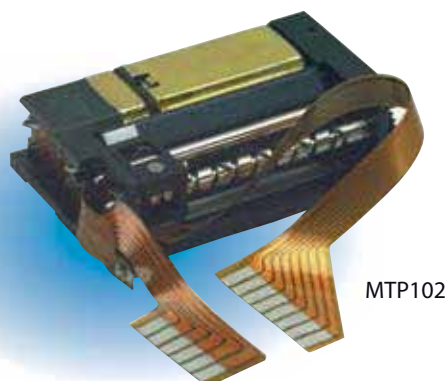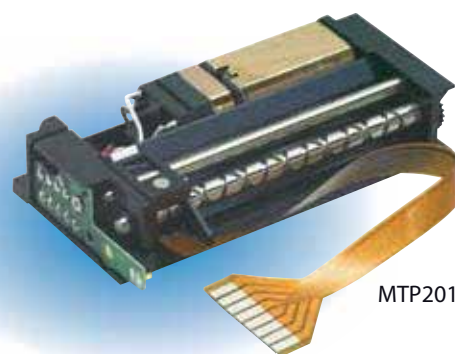# MTP Series

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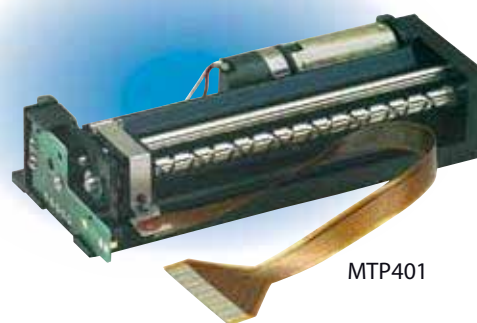
- Compact, lightweight design
- High reliability
- Suitable for battery operation
- Designed for versatile applications
- Non-impact system



MTP201



MTP102



MTP401

| Model | | MTP102-16 | MTP201-20 | MTP201-24 | MTP401-40 | MTP201G-128 | MTP201G-166 |
|---|---|---|---|---|---|---|---|
| | | Character type | | | | Graphic type | |
| Dot composition | | 7 x 110 | 7 x 138 | 7 x 166 | 7 x 278 | 8 x 128 | 8 x 166 |
| Printing | 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 | | | | 2.8 | |
| | Speed (cl/s) | 1.2 | 1.0 | 0.9 | 0.5 | 0.9 | 0.9 |
| | Spedd 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 | | | | | |

## 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 down-loaded 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 ± 0.5 | |
| Current consumption (Icc) Standby | Max. 27 mA @ 5VDC | |
| Printing | Max. 30 mA @ 5VDC | |
| Operating temperature (°C) | 0 to 50 | |
| Storage temperature (°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 ± 0.5 | |
| Operating frequency (MHz) | 4.91 ± 0.5% | |

IFM001-01BC / -01BC
Same specifications as above mentioned, but provided with a connector board, which permits the connecting to the MTP-Series.

**SII**

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Specifications subject to change without notice.