

Ficha técnica

Epson

Modelos / familias

TM-P20II

Fuente del fabricante

TM-P20II Technical Reference Guide

https://files.support.epson.com/pdf/pos/bulk/tm-p20ii_trg_en_reve.pdf

Las páginas siguientes son un extracto técnico del documento oficial del fabricante.

Appendix

Product Specifications

Printing method		Direct thermal line printing
Paper feeding method		Friction feed
Paper width		58 mm
Roll paper loading method		Load roll paper by dropping it into the printer
Cutting method		Manual cutter
Paper detector		Roll paper end detection (optical)
Cover detector		Roll paper cover open/close status detection (microswitch method)
Interface	USB-C	USB 2.0 compliant, Full-Speed (12 Mbps)
	Wi-Fi (Wi-Fi model)	IEEE802.11a/b/g/n/ac
	Bluetooth (Bluetooth model)	Bluetooth 5.0 Dual mode: Outside Brazil Bluetooth Dual mode: Brazil
Buffer	Receive buffer	4 KB (except Bluetooth communication), 64 KB (for Bluetooth communication)
	Downloaded buffer (user-defined characters and images)	12 KB
	NV graphics memory	384 KB
Barcode/Two-dimensional symbol printing		UPC-A, UPC-E, JAN8 / EAN8, JAN13 / EAN13, Code39, Code93, Code128, ITF, CODABAR(NW-7), GS1-128, GS1 DataBar, PDF417, QR code, Maxi Code, Data Matrix, Aztec Code, Two-dimensional GS1 DataBar, Composite Symbology
Overall dimensions (W x D x H)		Approx. 79.0 x 120 x 46.0 mm {3.11 x 4.72 x 1.81 in.} Dimensions with belt clip removed.
Weight	Wi-Fi model	Approx. 223 g {0.49 lb} * Excluding the belt clip and paper.
	Bluetooth model	Approx. 216 g {0.48 lb} * Excluding the belt clip and paper.

Printing Specifications

Printing method		Thermal line printing
Dot density		203 × 203 dpi
Paper feeding method		Friction feed
Printing width		48 ± 0.2 mm {1.89 ± 0.01 in.}, 384 dots
Characters per line	Font A	32
	Font B*1	42
	Font C	42
	Font D	38
	Font E	48
	Kanji Font A*1	Japanese: 16 Simplified Chinese: 16 Traditional Chinese: 16 Korean: 16
	Kanji Font B	Japanese: 19 Korean: 24
	Kanji Font C	Japanese: 24
Line spacing		3.75 mm {0.15 in.} (Initial setting. Programmable by command)
Maximum print speed*2		100 mm/s {3.94 in./s} (Standard mode) 40 mm/s {1.57 in./s} (Fine mode)

dpi: dots per inch

^{*1}: Default setting

^{*2}: When a new battery is used, the battery is fully charged, the room temperature is 25°C, and the print density is 100%.

CAUTION

- The print speeds are measured under the following conditions: use of a new fully charged battery, room temperature, and 100% print density. In addition, the speed changes automatically depending on the voltage applied to the printer and head temperature.
- If the data transmission speed is slower than the maximum print speed, the print speed may fluctuate and the print result may become shaded and/or dot displacement in paper feeding may occur. Furthermore, if the data transmission speed is much slower than the maximum print speed (for example, when using Bluetooth LE), intermittent printing will occur.

Character Specifications

Character set	ANK	95 alphanumeric characters
		128 extended graphics characters x 54 pages (Includes user-defined pages. Models for South Asia do not support user-defined pages.)
		18 international character sets (For South Asia: 29 sets)
	Japanese	6,879 characters of JIS X0208-1990, 845 special characters
		11,233 characters of JIS X0213:2004, One special character
	Simplified Chinese	28,806 characters of GB18030-2022 (Lv.2)
	Traditional Chinese	13,502 characters of Big5
Character code	Korean	8,224 characters of KSC5601
	Japanese	ISO-2022-JP / Shift_JIS / Shift_JIS-2004
	Simplified Chinese	GB18030-2022 (Lv.2)
	Traditional Chinese	Big5
	Korean	KSC5601
The number of dots per character (W x H)	Unicode ^{*1}	UTF-8
	Font A	12 × 24 (includes 2-dot horizontal spacing)
	Font B	9 × 24 (includes 2-dot horizontal spacing)
	Font C	9 × 17 (includes 2-dot horizontal spacing)
	Font D	10 × 24 (includes 2-dot horizontal spacing)
	Font E	8 × 16 (includes 2-dot horizontal spacing)
	Special Font A	12 × 24 (includes 2-dot horizontal spacing)
	Special Font B	9 × 24 (includes 2-dot horizontal spacing)
	Hindi Font A	Proportional x 32
	Hindi Font B	Proportional x 24
	Kanji Font A	Japanese: 24 × 24 Simplified Chinese: 24 × 24 Traditional Chinese: 24 × 24 Korean: 24 × 24
	Kanji Font B	Japanese: 20 × 24 Korean: 16 × 16
	Kanji Font C	Japanese: 16 × 16

Character size ^{*2} (W x H)	Font A	1.25 × 3.00 mm {0.05 × 0.12 in.}
	Font B	1.13 × 3.00 mm {0.04 × 0.12 in.}
	Font C	0.88 × 2.13 mm {0.03 × 0.08 in.}
	Font D	1.00 × 3.00 mm {0.04 × 0.12 in.}
	Font E	0.75 × 2.00 mm {0.03 × 0.08 in.}
	Special Font A	1.25 × 3.00 mm {0.05 × 0.12 in.}
	Special Font B	0.88 × 3.00 mm {0.03 × 0.12 in.}
	Hindi Font A	Proportional x 4.00 mm {0.16 in.}
	Hindi Font B	Proportional x 3.00 mm {0.12 in.}
	Kanji Font A	Japanese: 3.00 × 3.00 mm {0.12 × 0.12 in.} Simplified Chinese: 3.00 × 3.00 mm {0.12 × 0.12 in.} Traditional Chinese: 3.00 × 3.00 mm {0.12 × 0.12 in.} Korean: 3.00 × 3.00 mm {0.12 × 0.12 in.}
	Kanji Font B	Japanese: 2.50 × 3.00 mm {0.10 × 0.12 in.} Korean: 2.00 × 2.00 mm {0.08 × 0.08 in.}
	Kanji Font C	Japanese: 2.00 × 2.00 mm {0.08 × 0.08 in.}

Special fonts= Thai fonts

1: Only the character sets installed on the printer can be printed.

2: Space between characters is not included. Characters can be scaled up to 64 times as large as the standard size.

NOTE

By specifying UTF-8 character encoding, all the installed character sets can be printed.
For more details on printing Unicode characters, see "FS (C" of the ESC/POS command reference, or manual of the software you use. ("[Application Development Information](#)" on page 84)

Paper Specifications

Paper type		Thermal paper
Form		Roll paper
Size	Paper width	57.5 ± 0.5 mm {2.26 ± 0.02 in.}
	Roll width when taken up	58 ± 0.5 mm {2.28 ± 0.02 in.}
	Roll outside diameter	40 mm {1.57 in.} at maximum
	Roll core outside diameter	At least 18 mm {0.71 in.}
	Roll core inside diameter	At least 12 mm {0.47 in.}
	Roll core width	Must be the same as the paper width or smaller than the paper width with a difference of 1 mm {0.04 in.} or less.
	Paper thickness	75 µm at maximum, 50 µm at minimum
Specified original paper		TF50KS-EY, TF60KS-E (NIPPON Paper Industries Co., Ltd.) PD160R, PD190R (OJI Paper Mfg. Co., Ltd.) P220AGB-1 (Mitsubishi Paper Mills Limited.) AP45KS-ND, AP50KS-ND (Jujo Thermal Oy) P5047(55), P5047(46) (Mitsubishi HiTec Paper Europe GmbH) KT55FA, KT48FA, KT55PF, KT48PF (Papierfabrik AugustKoehler SE)

CAUTION

- Paper must not be pasted to the roll paper core.
- Use of thermal paper with a pre-printed recording surface should be avoided. Using it can cause the thermal head to stick to the thermal paper surface during printing, and cause printing failure and other problems. The pre-printing also can result in reduced print density. When using thermal paper with a pre-printed recording surface, pre-printing should be done in accordance with the conditions (ink type, printing and other conditions) recommended by the paper manufacturer, and the thermal paper should be checked to ensure that there is no faulty printing, loss of print density, or other problems.

NOTE

It is recommended to mark the end of the roll with a red line so that the end of the roll can be recognized.

Recommended Print Density for Specified Base Paper

To ensure good print quality, it is recommended to set the print density (see ["Software Settings" on page 57](#)) according to the paper used.

Specified original paper	Print density
TF50KS-EY, TF60KS-E	100%
P220AGB-1	105%
PD160R, PD190R	110%
AP45KS-ND, AP50KS-ND, KT48FA, P5047(46), P5047(55)	120%
KT55FA, KT48PF, KT55PF	130%