SII

RP-F10/G10 SERIES
THERMAL PRINTER
TECHNICAL REFERENCE

Rev.02

Seiko Instruments Inc.

CHAPTER 2
SPECIFICATIONS

2.1 PRINTER SPECIFICATIONS

Table 2-1   Printer Specifications

(1/3)

Item		Specifications		
		RP-F10		RP-G10
		Paper Width 80mm[*1]	Paper Width 58mm[*1]	Paper Width 80mm
Printing method		Thermal printing		
Dot density		8 dots/mm		
Number of effective dots		576 dots/line (512 dots/line[*2])	432 dots/line (360 dots/line[*2])	576 dots/line (512 dots/line[*2])
Printing width max.		72 mm (64 mm[*2])	54 mm (45 mm[*2])	72 mm (64 mm[*2])
Operating environment	Temperature	5°C to 45°C (41°F to 113°F)		
	Relative humidity	10 %RH to 90 %RH (non-condensing)		
Storage environment	Temperature	-20°C to 60°C (-4°F to 140°F)		
	Relative humidity	10 %RH to 90 %RH (non-condensing)		
Printing speed max.		250 mm/s[*3]		200 mm/s[*3]
Paper-feed pitch		0.0625 mm		
Dimensions (excluding projections)		W 127 mm × D 127 mm × H 127 mm		
Mass		Approx. 840 g (excluding thermal paper)		
Input voltage		DC24.0 V ±10%		
Mounting type		Top eject : floor installation Front eject : floor installation or wall-mount[*4]		
Communication system	USB	Ver. 2.0 Full speed (12 Mbps)		
	Serial	-		RS-232C (9600 to 115200 bps)
	Ethernet	10BASE-T, 100BASE-TX		-
	Bluetooth	Ver. 3.0		-

Item		Specifications		
		RP-F10		**RP-G10**
		Paper Width 80mm[*1]	**Paper Width 58mm**[*1]	**Paper Width 80mm**
Character size	1-byte character font A	24 dots × 12 dots		
	1-byte character font B	16 dots × 8 dots		
	2-byte character font A	24 dots × 24 dots		
	2-byte character font B	16 dots × 16 dots		
Character type	1-byte character	USA, Standard Europe (Code Page437) Katakana Multilingual (Code Page850) Portuguese (Code Page860) Canadian-French (Code Page863) Nordic (Code Page865) Turkish (Code Page857) Greek (Code Page737) Latin (Code Page1252) Russian (Code Page866) Eastern Europe (Code Page852) Euro (Code Page858) Cyrillic (Code Page855) Arabic (Code Page864)[*5] Central European (Code Page1250) Cyrillic (Code Page1251) Greek (Code Page1253) Turkish (Code Page1254) User-defined character set Downloaded character, Optional font		
	2-byte character	Kanji (JIS 1st and 2nd levels, special characters, NEC special characters, NEC selection of IBM extended characters, IBM extended characters), User-defined character		
Characters per line	1-byte character font A	48 (42[*2])	36 (30[*2])	48 (42[*2])
	1-byte character font B	72 (64[*2])	54 (45[*2])	72 (64[*2])
	2-byte character font A	24 (21[*2])	18 (15[*2])	24 (21[*2])
	2-byte character font B	36 (32[*2])	27 (22[*2])	36 (32[*2])
Barcode	Barcode	UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), ITF, CODABAR, CODE39, CODE93, CODE128, GS1 Databar Omni-directional, GS1 Databar Truncated, GS1 Databar Limited, GS1 Databar Expanded		
	Two-dimensional barcode	QR Code (Model 2), PDF417, MaxiCode, Data Matrix, GS1 Databar Stacked, GS1 Databar Stacked Omni-directional, GS1 Databar Expanded Stacked		
Print mode		Standard mode Page mode		
Input buffer		4096 bytes		
Autocutter	Paper cutting type	Full cut Partial cut (a tab left at the center)		

Item		Specifications		
		RP-F10		**RP-G10**
		Paper Width 80mm[*1]	**Paper Width 58mm**[*1]	**Paper Width 80mm**
Drawer kick port	Drawer drive output	DC24.0 V, 1.0 A max., 2 circuits[*6]		
	Drawer switch input	1 circuit		
LED		3 color LED		
Operation switch		POWER Switch, FEED Switch		
Reliability[*7]	Abrasion resistance	150 km or more		
	Activation pulse resistance	150 million pulses or more		
	Cutting thermal paper	1.5 million cut or more[*8]		
	MTBF/MCBF	360000 hours / 60 million lines		

*1: Select the paper width by MS4-4 (Paper Width Selection).(Only for RP-F10 series.)
*2: This is the number of characters when 512 dots / 360 dots is selected by MS4-5 (Number of Effective Dots Selection).
*3: Condition: our specified AC adapter (PW-G2421-W1), function settings are default setting,
        printing 1-byte character font A 'K' for all digits, ambient temperature 25°C (77°F) or more.
        However, it may change depending on the connecting time and the printer settings.
*4: Use dedicated wall mounting kit (WLK-B01-1).
*5: Font B cannot be used when this character set is selected.
*6: 2 circuits cannot be driven concurrently.
*7: Except when specific dots are printed continuously. Reliance is a value at average print rate 12.5%, print density 100%, ambient
    temperature 25°C (77°F), and using specified thermal paper.
*8: Cut operation environment is a value at ambient temperature 25°C (77°F), humidity is 60%, and using specified thermal paper
    indicated in Table 2-4.