

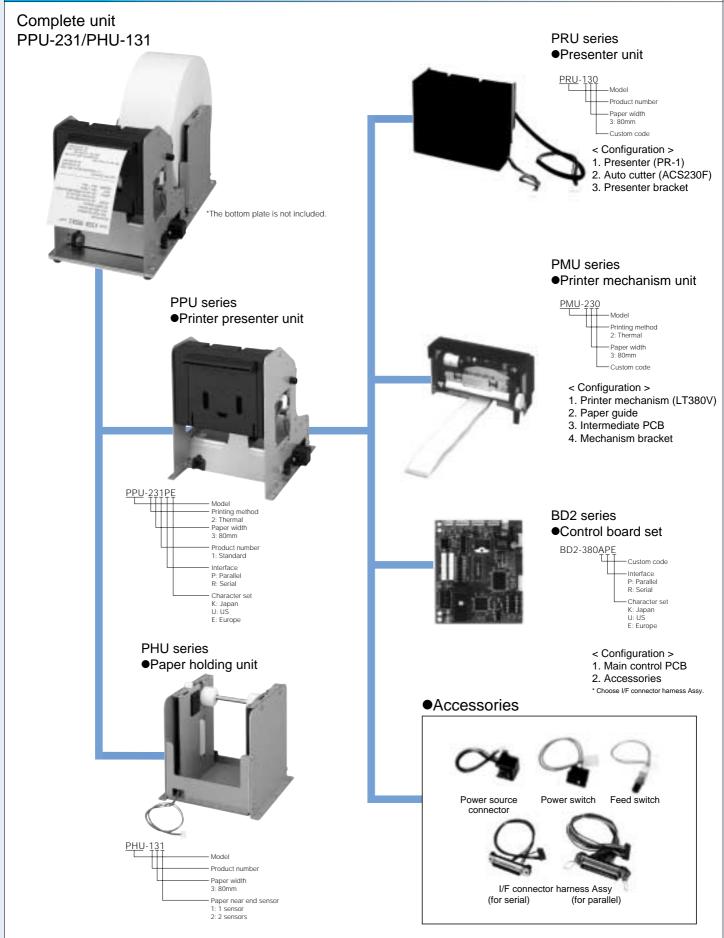
Features

- Easy paper handling The presenter unit feeds the paper after print and cut.
- Paper auto loading.
- Bar codes printing.
- Capable of loading large diameter roll paper (203ø).
- Both parallel (Centronics) and serial (RS-232C) interfaces available.
- Equipped with a paper end sensor and paper near end sensor.
- AC adapter available.

LINE THERMAL PRINTER MECHANISM PRINTER PRESENTER UNIT

PPU-231/PHU-131





Standard	Specifications			
Printing method	Line thermal dot printing			
Printing width	72mm/576 dots			
Dot pitch	8 dots/mm			
Printing speed	62.5mm/sec. [Max.] (500 dot lines/sec.)			
Column count	48 columns (12 x 24 Font A), 64 columns (9 x 24 Font B)			
Font size	1.25mm x 3.00mm (12 x 24 Font A) 0.88mm x 3.00mm (9 x 24 Font B)			
Fonts	Alphanumeric, International characters			
Bar codes	UPC-A, JAN (EAN) 13 col./8 col., ITF, CODE39, CODE128, CODABAR			
Line spacing	4.23mm (1/6") Selectable by command set (minimum: 1/203").			
Printing paper	Thermal roll paper Width: 80mm External diameter: ø203mm (with paper holder unit) Internal diameter: ø25.4mm Paper thickness: 60 to 85µm Recommended paper: TF-50KS-E, TF-62KS-E (Nippon Paper Industries)			
Interface	Serial (RS-232C) or Parallel (Centronics)			
Input buffer	4K bytes			
Command	ESC/POS*			
Sensors	Paper near end sensor (adjustable, for PHU series) Paper end sensor (for PMU series) Black mark sensor (option)			
Power source voltage	24V±7%			
Power consumption	100W			
Weight	PPU: 1.6kg (incl. control PCB) PHU: 0.9kg (excl. roll paper)			
External dimensions	See back page			
Operating temperature/humidity	5 to 40°C, 35 to 85%RH (No condensation)			
Storage temperature/humidity	-20 to 60°C, 10 to 90%RH (No condensation)			
Reliability Head: 50 million pulses (12.5% printed area) 30km (normal temperature/humidity with recommended paper) Auto cutter: 300,000 cuts (normal temperature/humidity with recommended paper)				

* ESC/POS is a trademark of Seiko Epson Corporation.

Printer Presenter Unit PPU-231



Presenter unit (opened view)



Presenter unit and printer (opened view, shown from above)

Easy access for maintenance and cleaning.

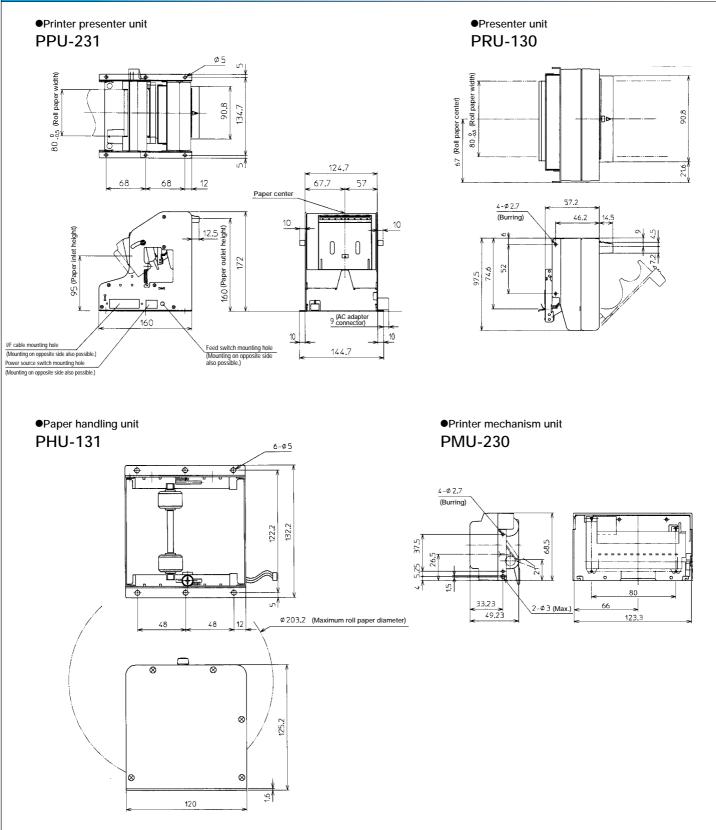
Connector Connection							
Parallel Interface							
No.	Signals		N	lo. Signals			
1 2 9 10 11 12 13	STOROBE DATA 0 DATA 7 ACK BUSY PE		2 2 2 2 3 3 3 3	9 0 7 8 9 0 1 2	TWISTED PAIR GND TWISTED PAIR GND TWISTED PAIR GND TWISTED PAIR GND TWISTED PAIR GND TWISTED PAIR GND TWISTED PAIR GND RESET FAULT		
16 17 18	FRAME GND 35		3	3 4 5 6			
< Note > Data input: 8 bit parallel (DATA 0 to 7) Control signals: ACK, BUSY, STROBE, FAULT, PE, RESET Compatible connectors: Printer side: 57GE-40360 (Amphenol) or equivalent Cable side : 57-30360 (Amphenol) or equivalent							
No.	Signal	Input/out	put		Function		
1	FG	mparoa	put		Ground		
7	GND				GND for signal		
3	RxD			-			
20	DTR	Input			Receiving data		
	TxD	Output			Printer BUSY signal		
2		Output			Sending data		
6	DSR Input Data set ready						
< Note > 1. System: Non-synchronous system 2. Baud rate: 1200, 2400, 4800, 9600, 19200 bps (chosen by user) 3. Word architecture Start bit : 1 bit Data bit : 8 or 7 bit (set upon delivery) Parity bit : Odd, even, or no parity (set by user) Stop bit : 1 bit or more 4. Signal polarity RS-232C * Mark = Logic *1* (-3V to -12V) * Space = Logic *0* (+3V to +12V) 5. Receiving data (RxD signal) * Mark = 1 * Space = 0							
 6. Receiving control (DTR signal) Mark : Unable to transmit data Space : Able to transmit data 7. Sending control (TxD signal) DC1 code (11H) X-ON : Able to send data DC3 code (13H) X-OFF : Unable to send data < Note > 1. The RS-232C signal is based on EIA RS-232C. 							
 Keep receiving data in the Mark condition when no data transmission is taking place. Compatible connector (D-Sub connector) Printer side : 17LE-13250 (Amphenol) or equivalent Cable side : 17JE-23250 (Amphenol) or equivalent 							



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External dimensions



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