

Features

- Portable Printer
- Moving Head Thermal Mechanism
- 40 Characters per Line Normal
80 Characters per Line Condensed
- Nicad Batteries for Portable Printing
- Up to 800 Lines per Battery Charge
- Paper Width 112mm
- UK Mains Adapter Available Separately
- RS232C or Centronics Parallel Versions
- High Reliability 5 million Lines MTBF
- Low cost

Applications

- Hand Held Applications
- Field Monitoring
- Portable Equipment
- Data Logging
- Receipt Printing
- Laboratory Equipment



Introduction

The NP-104 portable printer uses 112mm wide paper and can print 80 characters per line in condensed mode and 40 characters per line in standard size. It has inbuilt rechargeable batteries which can print up to 800 lines of typical text on one charge. A UK style mains plug-in charger is available. To fully charge requires 12-14 hours.

The moving head thermal mechanism produces selectable density of graphic printing. There are 320 dots per line resolution which is particularly useful if an application requires graphics.

The NP-104 weighs only 0.9Kg and measures only 186mm x 196mm x 105mm. Operation is simple as there are standard RS232C Serial or Centronics Parallel versions.

Operation

For portable applications the NP-104 should be charged overnight. When not required for actual printing the printer should be turned off.

The batteries require approximately 12-14 hours to fully charge. The printer should be turned off while charging unless printing is required.

If the DED power adapter D237-01 is used it must be set to tip (-ve) and to 6V setting.

The software commands emphasized and condensed cannot be done simultaneously. After sending the reset command an extra character should be sent, in serial versions, which is ignored by the printer.

Both 40 character and 80 character printing can be done on one line. The DIP switch settings are printed in a self test printout provided by pressing the FEED button while power is turned on. A hex mode dump is also available.

SPECIFICATIONS

Printing Systems:	Moving Head Thermal	
Print Direction:	Text: Bidirectional or Unidirectional	Graphics: Unidirectional
Thermal Head:	8 Vertical Dots	
Character Format:	8 x 7 (40 cpl)	
Dots per Line:	320	
Character Size:	2.6 x 2.1mm (40 cpl)	
Print Columns:	40 (7+1 dot spacings)	
Print Speed:	38.5 cps Approx (40cpl)	
Dot Pitch:	Vertical: 0.33mm	Horizontal: 0.295 ± 0.08mm
Paper Feed Method:	Friction	
Interface:	Centronics Parallel: 36 way Amphenol	RS 232C Serial: 25 way Female 'D'
	Band: 1200,2400,4800,9600	Bits: 8
	Parts: None, Odd, Even	
Input Buffer:	4.5 KBytes Approx.	
Paper Out Detector:	ALM set	PE signal output
Print Characters:	IBM, + 8 Countries	
Paper:	Width: 112+0 -1mm	Diameter: 54mm Maximum
	Thickness: 65 ± 5 µm	
Battery:	Type: 4 Nicad size AA	Charging: 14 hours maximum for full charge
	Data lines: 800 approx. at 30 characters/line	
Reliability:	Mechanism: 5 million Lines MTBF	Head: 1 x 10 Pulses
Power:	9V DC at 750 MA Maximum 230V AC ±10 %, 3W with Adapter	
Connector:	2.1mm jack socket centre -ve voltage	
Weight:	0.9Kg	
Size:	186mm (W) x 196.2mm (D) x 105mm (H)	

ORDER CODE

NP-104: RS232C Serial: (stock no. 548-105)

NP-104: Parallel: (stock no. 548-104)

ACCESSORIES

Mains Adapter: (D237-02)

Paper: 112mm(W) x 52mm(D): (stock no.552-514)

Cable: Right angle Parallel Printer Cable to 25 way 'D' male: (stock no.456-422)

Cable: RS232C Serial Printer Cable to 25 way 'D' female: (stock no. 456-355)

Cable: RS232C Serial Printer Cable to 9 way 'D' female: (stock no. 456-359)

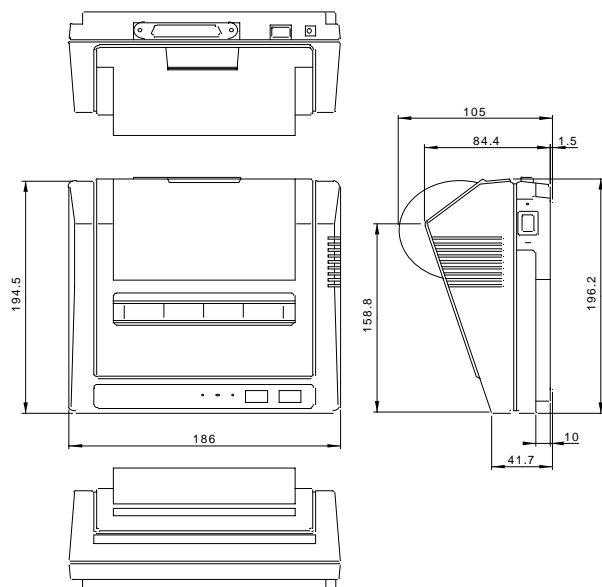
PRINT SAMPLE

WATER TEST ANALYSIS

SITE: Gate 4 Mill Road LYDD Kent TN29 9EJ
DATE: 11-07-96 TIME: 12:25
OPERATOR: Elliot Van de Leau

TEST	0	10	20	30	40	50	60	70	80	90	100%
H44/12											
P70/23											
AX3/14											
EM/08											
AX3/14											
AX3/01											
G27/05											

OUTLINE DRAWING



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Specifications are subject to change without notice



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