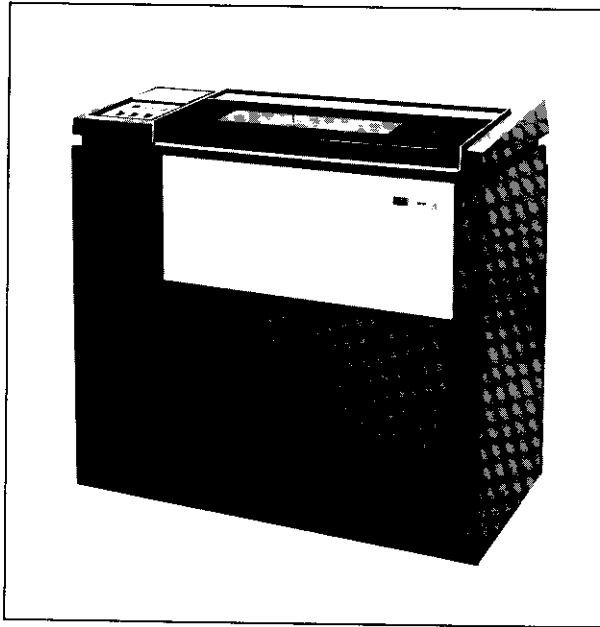




12983A High Speed Line Printer Subsystem



The HP 12983A provides high speed, high quality printed output and quiet operation for HP minicomputer based systems. This printer is ideally suited for applications requiring high duty cycle or continuous operation.

Features

- Prints 132 columns at rates to 1250 lines per minute minimum
- Dual speed drum for high quality printout
- 12-channel vertical forms control with 2-channel readback
- Printer may be located up to 500 feet from CPU
- Simplified control panel and front paper loading for operator convenience
- 6 or 8 lines per inch – operator selectable
- Both 64-character and 96-character ASCII available
- Custom character sets available on special order
- Multiple copies – prints up to 6 part forms
- Electronic static eliminator for improved forms stacking

The HP 12983A with a 64-character set prints at 1250 lines per minute. When printing any subset of 36 consecutive characters, 1800 lines per minute is achieved. Printing rate is independent of line length.

Two operator selectable drum speeds are incorporated. The higher rpm provides maximum printing speeds while the lower rpm provides enhanced print quality.

The 12-channel Vertical Format Unit uses commonly available control tapes. Under program control the VFU may be commanded to slew to the next hole in a given channel of the tape or to slew an absolute number of lines from 1 to 15. Two VFU channels can be monitored by the computer. This may be used to further simplify forms control programming.

A single adjustment allows the operator to choose 6 or 8 lines per inch. A matching VFU tape will synchronize the forms to the VFU.

An ASCII 64-character set is standard with a 96-character ASCII optional. Special character sets including non-English language and OCR fonts may be special ordered.

Six part forms are easily handled by the HP 12983A. Forms alignment is simplified by horizontal and vertical paper alignment guides. Fine vertical paper alignment adjustments can be made while printing.

Printer controls have been minimized and are easy to read. The drum-gate may be opened 90 degrees to facilitate both paper and ribbon loading.

An electronic static eliminator and paper receptacle are provided for proper stacking at high speeds.

Specifications

SYSTEMS COMPATIBILITY

Operating Systems: DOS III

Computers: 2100A/S, 21MX

CHARACTER DRUM

Character per Line: 132

Character Type: Open Gothic

Symbol Size (Typical): 2.4mm (0.095 inch) high
1.65mm (0.065 inch) wide

HEWLETT  PACKARD

Character Code: ASCII Standard 64 Character Set:

@ - at, each	# - number	- - minus sign
A-Z - alphabet	\$ - dollar sign	. - period
[- left bracket	% - percentage	/ - right slash
\ - left slash	& - ampersand	0-9 - decimal digits
] - right bracket	, - comma	: - colon
^ - caret	(- left parenthesis	; - semi-colon
_ - underscore) - right parenthesis	< - less than
(BLANK) - one space	* - asterisk	= - equal sign
! - exclamation mark	+ - plus sign	> - greater than
" - double quote	' - apostrophe	? - question mark

Optional 96 Character Set Adds the Following:

` - grave accent	- vertical line
a-z - alphabet	~ - tilde
{ - left brace	- space (delete)
} - right brace	

PAPER FEED

Two sets of pin tractors
 Line Advance: 14 milliseconds
 Slew Speed: 35 inches per second

PAPER DIMENSIONS

Standard fanfold, edge punched paper 4" to 19" wide

PAPER TYPE

Single copy, 15 lb. bond minimum weight.
 Multi-copy up to 6 parts, 12 lb. bond with single-shot carbon.

VERTICAL FORMAT UNIT

Number of Channels: 12
 Addressing: Slew to next hole in channel "n" or slew 0 to 15 lines
 Status Channels: 9 and 12 may be read back by user programs to determine for position

POWER REQUIREMENTS

2618A Printer
 60 Hz Models: 115VAC ±10% single phase
 60 Hz ±2% line frequency
 50 Hz Models: 230 VAC ±10% single phase
 50 Hz ±2% line frequency
 Power Consumed: 1.95 KW maximum
 Power Cable Length: 3.66m (12 ft.)
 12845B Interface (requires one I/O slot in CPU)
 Power supplied by computer, 1.13A at + 4.5V and 0.1A at -2V

ENVIRONMENTAL CONDITIONS

Temperature
 Operating: +10°C to +40°C (50°F to 104°F)
 Storage: -17°C to +65°C (1°F to 149°F)
 Relative Humidity
 Operating: 10% to 90% (non-condensing)
 Storage: 5% to 95% (condensing)
 Heat Dissipation
 Printing: 6600 BTU/Hour
 Standby: 3000 BTU/Hour

PHYSICAL CHARACTERISTICS

Width: 123.2 cm (48.5 in.)
 Depth: 92.7 cm (36.5 in.)
 Height: 116.8 cm (46 in.)
 Weight
 Net: 362.9 kg (800 lb)
 Shipping: 409 kg (900 lb)

PRINTING SPEEDS

	Characters On Drum	Drum Speed Switch Position	# Consecutive Characters Printed	Printer Speed Lines/Minute 132 Columns
Std or 015	64	1800	1-36/37-64	1800/1250
	64	1200	1-46/47-64	1200/925
001 or 016	96	1200	1-67/68-96	1200/925
	96	800	1-76/77-96	800/675

ORDERING INFORMATION

12983A Configurations

Standard - 64 char., 1250 lpm, 115VAC/60Hz
 001 - 96 char., 925 lpm, 115VAC/60Hz
 015 - 64 char., 1250 lpm, 230VAC/50Hz
 016 - 96 char., 925 lpm, 230VAC/50Hz
 421 - Adds DOSIII Driver (24307-16011 binary paper tape) and Manual (24307-90016).

EQUIPMENT SUPPLIED

The following is shipped with each subsystem:
 2618A Line Printer (std, 001, 015, or 016 configuration)
 12845B Interface for 2100 and 21MX series computers.
 Includes 7.6m (25 ft) cable (maximum permissible length 152.4m, (500 ft.)
 02618-90001 Operating and Service Manual, Printer
 02618-90002 Diagrams and Parts Breakdown, Printer
 12845-90011 Operating and Service Manual, Interface
 9282-0543 Printer Ribbon
 02618-80001 VFU Tape (6 lines/inch, 60 lines/page)
 02618-80003 VFU Tape (8 lines/inch, 80 lines/page)
 02618-80002 Diagnostics VFU Tape (6 lines/inch)
 02618-80004 Diagnostic VFU Tape (8 lines/inch)
 02618-16001 Diagnostic Software (binary paper tape)
 02618-90006 Diagnostic Manual
 24296-60001 Diagnostic Configurator Software (binary paper tape)
 02100-90157 Diagnostic Configurator Manual

AVAILABLE SUPPLIES

9320-1659 Paper Stock, single part, 37.78 x 27.94 cm (14.87 x 11 inches) green bar, 3000 pages per box.
 Contact your HP Sales Office for other available stock.
 Sufficient paper is supplied with the printer for installation testing. Customer should order operating quantities in advance of installation.

INSTALLATION

List price includes installation.



Sales and service from 172 offices in 65 countries.
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