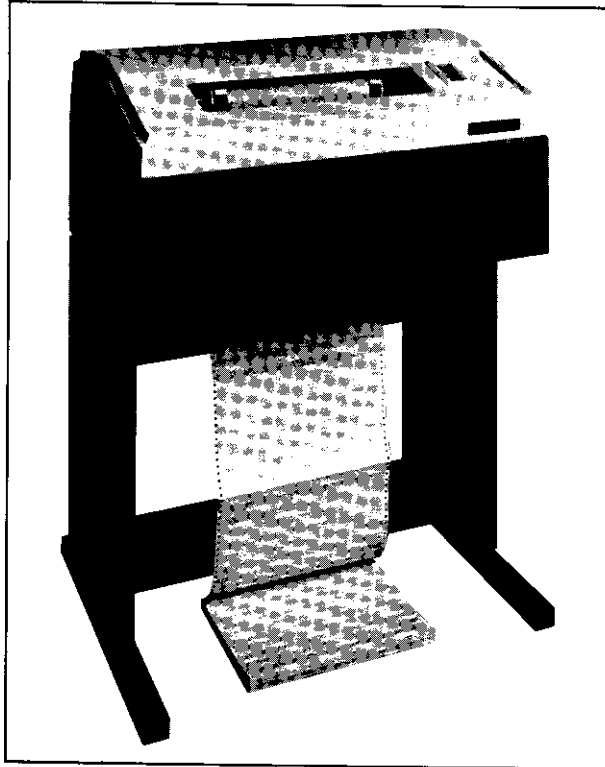




12975A Line Printer Subsystem



The HP 12975A Line Printer Subsystem represents an optimized combination of high print quality, moderate speed and low price in a drum printer subsystem. This subsystem is ideally suited to applications requiring a medium duty printer.

Features

- Prints 136 columns of 64 characters at 300 lines per minute
- 12-channel vertical forms control
- Printer may be located up to 500 feet from CPU
- Clear, crisp printout
- Multiple copies – prints up to 6-part forms
- Both 64-character or 96-character ASCII available
- 6 or 8 lines per inch – operator selectable
- U/L listed

The unit attains a print rate of 300 lines per minute when printing a full 64-character set in a 136-column format. Print rate is 240 lines per minute for 96-character set configurations.

A 12-channel Vertical Format Unit allows convenient and efficient printing in predetermined formats such as business forms. The VFU uses industry standard 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 0 to 15.

A switch allows the operator to choose 6 or 8 lines per inch (60 or 80 lines/page respectively). A matching VFU tape will synchronize the forms to the VFU.

An ASCII 64-character set is standard with 96-character ASCII optional. Special character sets including non-English language and OCR fonts are available.

Six part forms are easily handled by the HP 12975A. Forms alignment is simplified by horizontal and vertical paper alignment guides. Fine vertical paper alignment adjustments can be made while printing. A paper receptacle is provided.

Differential line drivers allow the printer to be located up to 500 feet from the computer for flexibility of installation design.

Paper and ribbon loading are facilitated by a swing hinge which allows the drum-gate to be opened 90 degrees.

All EDP category safety requirements are met for equipment listing by Underwriters Laboratories.

Specifications

CHARACTER DRUM

Characters per Line: 136

Character Type: Open Gothic

Symbol Size (Typical): 2.4 mm (0.095 inch) high
1.65 mm (0.064 inch) wide



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)
}	

PAPER FEED

One set of pin tractors above drum, friction paper tensioner below drum

Line Advance: 50 milliseconds
Slew Rate: 50.8 cm (20 inches) per second

PAPER DIMENSIONS

Standard fanfold, edge punched paper 12.4 cm (4.875 inches) to 42.6 cm (16.75 inches) 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 form position.

POWER REQUIREMENTS

2613A Printer
60 Hz Models: 115V AC \pm 10% Single Phase
60 Hz \pm 2% Line Frequency
50 Hz Models: 220 or 240V AC (jumper selectable)
 \pm 10% Single Phase
50 Hz \pm 2% Line Frequency

Power Consumed: 525 watts maximum
Power Cable Length: 3.7 m (12 feet)

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 +37°C (+50°F to 99°F)
Storage: -18°C to +66°C (0°F to 151°F)

Relative Humidity

Operating: 30% to 90% (non-condensing)
Storage: 5% to 95% (non-condensing)
Heat Dissipation: 454 kilocalories/hr (1800 BTU/hr) nominal

PHYSICAL CHARACTERISTICS

Height: 114.5 cm (45 inches)
Width: 83.8 cm (33 inches)
Depth: 55.9 cm (22 inches)
Weight

Net: 154.2 kg (340 lb.)
Shipping: 165.6 kg (365 lb.)

PRINTING SPEEDS

Char. Set	Drum Speed	136 Char. Line Per Minute
64	1200	300
96	800	240

ORDERING INFORMATION

12975A CONFIGURATIONS

Standard—64 character, 300 lpm, 115Vac/60Hz
001—96 character, 240 lpm, 115Vac/60Hz
015—64 character, 300 lpm, 240Vac/50Hz
016—96 character, 240 lpm, 240Vac/50Hz
421—Adds DOSIII Driver (24307-16011 binary paper tape) and Manual 24307-90016)

EQUIPMENT SUPPLIED

The following is shipped with each subsystem:
2613A Line Printer (Std, 001, 015, or 016 configuration)
12845B Interface for 2100A/S or 21MX computers.
Includes 25 foot (7.6m) cable (maximum permissible length 500 feet (152.4m).
02613-90010 Operator's Manual, Printer
12845-90011 Operating and Service Manual, Interface
9282-0545 Printer Ribbon
02613-80001 VFU Tape (6 lines/inch, 60 lines/page)
02618-80003 VFU Tape (8 lines/inch, 80 lines/page)
02613-80002 Diagnostic 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 Configuration Software (binary paper tape)
02100-90157 Diagnostic Configurator Manual

OPERATING SUPPLIES AVAILABLE

9282-0545 Printer Ribbon
9320-1659 Paper stock, single part 37.8 x 27.9 cm (14.87 x 11 inches) green bar, 3000 pages per box.



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