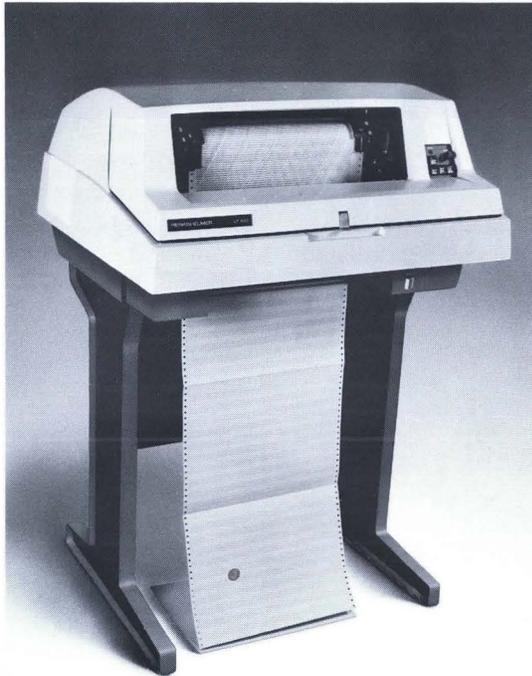


LP300 and LP600 REMOTE

Line Printer With RS-232C Interface

Product Description



The Perkin-Elmer LP300 and LP600 custom printers are impact type, solid horizontal character font, band line printers provided with an RS-232C interface for remote communications capability. The advanced design and modular construction make these printers perfect for handling high-volume output. The microprocessor-based electronics provide state-of-the-art technology for reliable performance and simplicity of operation. Numerous standard features and optional character sets are now offered as a result of this advanced design.

The RS-232C interface provides serial-to-parallel character conversion and stores the incoming data in a 1K byte buffer. The communication or line protocol used is operator-selectable by switches located on the interface. The printers offer three protocols: Simplex X-ON/X-OFF, Unblocked Ack-Nak, and Blocked Ack-Nak. The interface operates in an asynchronous mode and may be used with or without a modem. Other switch-selectable features are: parity bit present, parity bit odd/even/none, one stop bit/two stop bits, baud rates from 50 to 19,200, and 7 or 8-bit ASCII data length.

The LP300 and LP600 are truly operator-oriented units. Operator controls are minimized and located according to their frequency of use and mode of operation. Paper and ribbon are easily loaded from the front. A cartridge ribbon system reduces handling and makes ribbon changing quick and easy. A wide paper chute with horizontal and vertical alignment scales simplifies paper loading. The specially designed steel character band can also be changed by the operator and can be installed in less than one minute. As an additional operator aid, the printer's status is constantly monitored. If an off-line condition occurs, a digital display illuminates and identifies the problem and indicates if it is correctable by the operator.

The design of the LP Series printers is based on a field-proven hammer actuation device that provides a multiple copy capability with extremely low power consumption. Integrated circuit hammer drivers and microprogrammed control minimize the number of printed circuit boards and maximize printer reliability.

Features

- RS-232C Interface
- 64, 96 Character Sets
- USASCII, United Kingdom, and German Character Sets
- 132 Columns
- Microprocessor Controlled
- Full Line Buffer
- Cartridge Ribbon System
- Self Test with Diagnostic Display
- Etched Steel Character Band
- Maximum Spare Parts Commonality
- Auto On/Off

Optional Features

- Tape Controlled 12 Channels VFU
- Direct Access 12 Channels VFU
- Forms Length Select Switch
- Elapsed Time Meter
- 136 Columns
- Acoustic Cabinet
- Universal Power Supply
- Pedestal and Paper Shelf

Product Characteristics

Both units use microprocessor-based electronics to control the electrical and mechanical functions, and provide internal diagnostic testing to detect and indicate to the operator printer malfunctions. The microprocessor-based logic controls the seven major modules and subsystems of the printer. This logic also keeps the number of major assemblies to a minimum, thus ensuring high product reliability and reducing overall maintenance costs.

The print speed of the line printer varies with the installed character set. With the 64 character set, the speed of the LP300 printer is 300 lpm and that of the LP600 printer is 650 lpm. With the 96-character set, the LP300 speed is 230 lpm and the LP600

speed is 550 lpm. With the RS-232C interface, the print speed may also vary according to baud rate.

An optional, fully enclosed cabinet which provides 60 dBA of acoustical performance is available. Both the LP300 and LP600 contain a Vertical Format Unit (VFU). This 12-channel tape-controlled unit allows the operator to handle a variety of form lengths and allows rapid paper slewing within individual forms.

An OS driver is supplied with the printer. For communications use, a Perkin-Elmer COMM MUX or equivalent and configuration-dependent external cables are required but are not supplied with the printer itself.

Safety Standard

The printers are UL approved and CSA certified. They comply with FCC requirements

for class A operating devices and with VDE EMI/RFI requirements.

Specifications Features

Throughput (lines/minute)
64 USASCII Character Set
LP300 255/317 (min/max)
LP600 600/655 (min/max)
96 USASCII Character Set
LP300 171/255 (min/max)
LP600 449/600 (min/max)
Character Spacing
10 Horizontal (Characters inch)
Vertical (lines/inch)
6/8 (switch selectable)
Characters per line
132
Line Advance Time
30 ms (max)
Paper Slew Speed
15 ips (min)
Form Width
76-406mm
(3 to 16 in.)

Standard Tape Controlled Vertical Unit
Standard Full Line Buffer
Standard Ribbon Cartridge
Standard Phasing Control
Standard Paper Low Sensor
Standard Ribbon Motion Sensor
Standard Single Line Feed Switch
Standard Electronic Top of Form Switch
Standard Fault Condition Indicator and Clear Switch
Standard Self Test
Standard Diagnostic Display
Standard Penetration Control for up to six-part form
Standard Automatic Motor Control

Physical Dimensions

Height
38 cm (14.9 inches)
Width
77 cm (30.3 inches)
Depth
64 cm (25.2 inches)

Product Weight
68 kg (150 lbs.)
Shipping Weight
300 LPM-77.1 kg. (170 lbs.)
600 LPM-82.5 kg. (182 lbs.)

Electrical Requirements**Voltage**
90 to 132 VAC
180 to 250 VAC**Frequency**
50/60 Hz + 2Hz**Phase**
Single**Power**Standby: 250 watts (maximum)
Printing: 350 watts (maximum)**Line Cord Plug**Hubble 5965-VY or
equivalent NEMA 5-15P

Environmental Standards**Temperature**Operating: 10° to 38°C
50° to 100°F
Storage: -10° to 50°C
14° to 127°F
Transit: -40° to 71°C
-40° to 160°F**Humidity (Non-Condensing)**Operating: 20% to 80%
Storage: 10% to 90%
Transit: 95% max.**Altitude**Operating: 0 to 3000 m
Storage: 0 to 3000 m
Transit: 0 to 10,000 m

Product Numbers

97-061 F00	LP300 Line Printer (90-132 VAC, 60 Hz). A 300 line/minute 132-column line printer without character band. Includes RS-232C interface.	M46-311	LP Printer Ribbons (a package of 6)
97-061 F01	LP600 Line Printer (90-132 VAC, 60 Hz). A 600 line/minute 132-column line printer without character band. Includes RS-232C interface.	M46-312	LP300 USASCII 64-Character Set
91-313	LP300/LP600 Maintenance Manual. Not supplied with unit; may be purchased separately.	M46-313	LP300 USASCII 96-Character Set
M46-309	LP Printer pedestal and paper shelf.	M46-314	LP300 United Kingdom 96-Character Set
M46-310	LP Printer acoustical package. Provides additional acoustical noise suppression. Includes pedestal.	M46-316	LP300 German 96-Character Set
		M46-319	LP600 USASCII 64-Character Set
		M46-320	LP600 USASCII 96-Character Set
		M46-321	LP600 United Kingdom 96-Character Set
		M46-323	LP600 German 96-Character Set

Related Documentation

29-696	LP300 Operator's Guide	29-701	LP600 Schematics
29-697	LP300 Field Maintenance Guide	29-668	LP Controller Instruction Manual
29-698	LP300 Schematics	29-669	LP Controller Programming Manual
29-699	LP600 Operator's Guide		
29-700	LP600 Field Maintenance Guide		

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