



Features

- **Easy to interface** - a single I/O card and cable connect the 7210A to any HP Computer.
- **High speed** - up to 20 coordinates/sec or 5 symbols/sec.
- **Easy to control** - supplied software drivers allow easy control thru use of FORTRAN, ALGOL, BASIC, or Assembly language.
- **Small memory requirement** - only 250 16-bit words of core required.

The 7210A Digital Plotter, easily added to your HP Computer System, will draw lines at any length and at any angle by specifying only the end coordinates. Plots of your data are quickly and accurately produced.

Coordinates may be specified by either of two definitions: **ABSOLUTE COORDINATES** - All points on the chart are defined by absolute coordinate pairs. This allows each plotted point to be independent of the accuracy of preceding points, and allows the use of preprinted chart paper.

7210A Digital Plotter For HP Computers

RELATIVE COORDINATES - Each new position is defined relative to the last. This mode lends itself nicely to relative position information in applications such as character generation and other repetitive operations while requiring less computer storage.

Since the 7210A's internal microprocessor interpolates between data points a minimum burden is placed on the computer. The simplest driver requires only 250 16-bit words of core to drive the 7210A. Character generation brings the total to only 900 words.

Error detection is employed to eliminate plotting of improperly formatted or off-scale data. Detection of an error lights a front panel indicator, lifts the pen, and notifies the program. The pen automatically lowers at the next valid point.

Any size graph paper up to 11 x 17 in. (27.9 x 43.2 cm) with or without preprinted grids may be used. Several colors of ink are available in clean, disposable pens that can be changed quickly and easily.

All interface and software requirements for 7210A operation are provided by Hewlett-Packard.



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Specifications

PLOTTING AREA

Front panel scaleable from 0 x 0 to 10 x 15 in.
(25.4 x 38.1 cm)

PAPER SIZE

Any size up to 11 x 17 in. (27.9 x 43.2 cm)

PLOTTING MANEUVERS

Pen or Position. Pen and Position maneuvers are independent commands.

VECTOR GENERATION

Automatic, a command to perform a position maneuver will cause the Plotter to traverse a straight line path to any specified point on the platen.

VECTOR LENGTH

Limited only by the plotting area

VECTOR SPEED

6.7 to 12 in./sec (17 to 30.5 cm/sec). The speed is dependent upon the slope of the line. Plotter will process up to 20 vectors/sec within given velocity limits.

NUMERICAL CODE

Position data is received in BCD (8421) or Binary.

PLOTTING MODES

Absolute coordinates and relative coordinates.

NUMERICAL RESOLUTION

1/10,000 (0.01%)

PLOT ACCURACY

Better than 0.04 in. (0.10 cm) in 15 in. (38.1 cm).

RESETTABILITY

0.007 in. (0.18 mm) max

WRITING METHOD

Ink, disposable pens

CONTROLS

Line Switch
Chart Hold Switch
Graph Limits (includes Pen up/down control)

INDICATORS

Line Indicator
Error Indicator

POWER REQUIREMENTS

100, 115, 200, or 230 V $\pm 10\%$
48 to 66 Hz
100 VA max

PHYSICAL

Height: 8½ inches (216 mm)
Width: 20 inches (508 mm)
Depth: 20-1/8 inches (511 mm)
Weight: 40 lbs. (18.1 kg)
Shipping Weight: 52 lbs (23.6 kg)

ORDERING INFORMATION

2100 Series Based Systems

7210A--001: Plotter with 17210A Interface Kit which includes interface card, interconnecting cable and all necessary software for operation with HP 2100 Series (2100A, 2114A/B, 2115A, 2116A/B/C).
Interface Power Requirements for 2100 Series Computers
1.1 A (+4.5V); 0.05 A (-2V)

ACCESSORIES AVAILABLE

Plotter Stand (w/mounting plate)	HP Model 17260A
Mounting Plate	HP Model 17261A
Carrying/Transit Case	HP Part No. 9211-1377

OPERATING SUPPLIES AVAILABLE

Disposable Pens (Package of 3)

Red	HP Part No. 5081-1190
Blue	HP Part No. 5081-1191
Green	HP Part No. 5081-1192
Black	HP Part No. 5081-1193

Graph Paper -- A wide selection of linear, semi-log, and log-log graph papers are available thru Hewlett-Packard. Contact your local HP Sales Office for a complete listing.

Lubricants And Cleaners

Slidewire Cleaner	HP Part No. 5080-3605
Slidewire Lubricant	HP Part No. 5080-3635



For more information, call your local HP Sales Office or East (201) 265-5000, Midwest (312) 677-0400, South (404) 436-6181, West (213) 877-1282.
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Printed in U.S.A. 9/72 5952-2750.