

HP measurement and computer advances



Hewlett-Packard introduces another powerful computer, with interactive graphics, that sits on your desk.

HP's new 9800 System 45B computer puts up to 449K bytes of problem-solving power to work in your technical/professional areas. And it brings powerful, interactive graphics to bear wherever you need them.

You and your technical staff can address a problem through the HP System 45B's typewriter-like keyboard, check the results on the CRT, perform related computations, restate the problem based on those computations, and print out a hard copy of the best solution on its built-in thermal printer—all without breaking the rhythm of the problem-solving process.

Exploratory data analysis in both the technical/professional and business areas is at your fingertips with System 45B. It can optimize a design from pencil-and-pad theory to solution. And when it's not busy in technical areas, it can take care of your statis-

tical analyses, costing, sales forecasting, and project management problems. A wide range of software for System 45B is available, including programs in statistical and numerical analysis, engineering design, structural and electrical engineering, and business management.

System 45B's versatile graphics capability makes it easy for you to visualize solutions quickly or arrange your data in useable form: as high-resolution plots, drawings, histograms, charts, curves, and graphs. With the addition of the HP 9872 four-color plotter, you can produce high-quality overhead slides to help communicate your computer solutions to others with maximum clarity.

Capability can be further expanded with other plug-in peripherals including a variety of printers, a digitizer, cartridge disk drives, and floppy disk drives, to meet your present needs and future growth.

A typical configuration of the System 45B, with 187K bytes of read/write memory, costs \$22,500*.

extend your possibilities.



New HP instrument measures transmitter frequency, power, and modulation to help keep signals in their place.

Microprocessor controlled HP 8901 modulation analyzer brings new convenience to transmitter testing by combining the functions of several instruments, and achieves a new level of accuracy in associated modulation measurements.

Today our airwaves are crowded as never before. Jostling for space in the 150 kHz to 1300 MHz frequency range alone are signals from all AM/FM broadcast stations, satellite command stations, CB and ham radio transmitters, mobile radios used by fire, police, and other public services, medical telemetry, cellular telephones, maritime and military communications, as well as air navigation and instrument landing systems.

To maintain order, these various users are restricted by law to certain frequencies, power levels, and modulation limits which are built into transmitter design specifications. Transmitters and components must be thoroughly tested during design, manufacturing, and installation phases to make sure the intended performance specifications are met, and further periodic testing is usually performed to ensure that these specifications are maintained.

The new HP 8901 modulation analyzer reduces this test time and increases measurement accuracy. It is a complete measurement system, combining the capabilities of frequency counter, power meter, and modulation meter in a compact, portable package. The 8901 can automatically characterize signals in the 150 kHz to 1300 MHz range with a single keystroke. Fully programmable, it can be remotely controlled via the Hewlett-Packard Interface Bus (HP-IB) to automate test procedures. High accuracy and portability simplify testing during field maintenance operations.

New accuracy standards for modulation measurements.

The accuracy of modulation depth and deviation measurements is within an unprecedented 1 percent. Combined with low internal noise, such accuracy gives the 8901 the ability to characterize high-precision signal sources, and makes it an excellent choice for metrology labs in calibrating signal generators.

An optional internal calibrator provides an easy means to verify the instrument's modulation measurement accuracy.

Prices start at \$7500*.



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Mail to: Hewlett-Packard, 1503 Page Mill Road, Palo Alto, CA 94304
Please send me further information on

- HP System 45B computer
- HP 8901 modulation analyzer

Name _____
Company _____
Address _____
City _____ State _____ Zip _____

*Domestic U.S. prices only.

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