Chromatography Data System

Chromocard II converts an Apple II computer to a chromatography data system with hardware, software, and an additional 128K RAM. Data may be acquired from two independent chromatography systems; data may be analyzed and printed at up to 40 points per second. The system detects peaks, integrates data, and provides a report and graphic data for most dot-matrix printers. The operator may superimpose a baseline after analysis if the one selected by the system is inappropriate. Methodology and data are stored on disks. The wide-range, 17-bit data converter accurately integrates peaks that might be off-scale on a strip-chart recorder. Anadata. Circle 555.

pH/Ion Meters

Five instruments comprise this line. Model 120 is a lightweight, battery-operated meter for use in the field. Model 140 has a four-button panel for rapid use. It recognizes and calibrates to standard buffers, calculates and displays slope, and senses end point. It also accepts ATC probes. Model 145 includes the above features and has an eight-digit alphanumeric display that prompts the user through calibration and measurement in automatic or manual modes. There is also a memory function. Model 150 offers all features of the 145 plus direct measure of activity versus concentration, clock and timing modes, automatic end point sensing, five language alphanumeric prompting, and five-electrode memory. Model 155 is designed for all research applications. It features known and sample addition/subtraction modes, five-language prompting, automatic buffer recognition, three-decimal accuracy, a digital clock and timer, and activity and memory function that will accommodate a five-electrode testing system. Corning Glass Works, Science Products Department. Circle 561.

Spectrophotometer

The DU-7 ultraviolet-visible, computing spectrophotometer features water-regulated kinetics, gel and autoradiogram scanning, and batch sampling. The user may collect kinetic data from up to six cells. Heating and cooling is accomplished in a separate water bath. Data may be stored for reformatting, manipulation, and tabulation. Kinetic rates are calculated by a least-squares, best-fit straight line over any time interval. There is an integral cathode-ray tube for graphic display. The DU-7 scans 10-centimeter gels or autoradiograms at all wavelengths; hard copy accompanies display of absorbance versus distance. The batch sampler has a 114-sample capacity and automated sample return. Beckman Instruments. Circle 557.

Laboratory Computer

The SPT-871 features SPL (Scientific Processing Language), a FORTH-like language that directs collection, reduction, and display with simple commands. The SPT-871 includes an 8086 processor and an 8087 co-processor with 256K bytes of RAM and 128K bytes of graphics RAM (384K in color unit). Two 8-inch floppy disk drives provide over 2 megabytes of on-line storage. Up to 100,000 samples may be taken per second per channel. There are 32 A/D channels and two D/A channels, eight sense inputs, and 24 TTL inputs and eight TTL outputs. Communications include full GPIB (IEEE 488) interface, parallel printer, and three two-way RS-232C ports. Burcon. Circle 559.

Laboratory Microscope

The Microstar Series 100 line features 20-watt tungsten-halogen illumination and four planachromatic objectives (4×, 10×, 40×, and 100×) that are parcentered and parfocal. Controls for intensity of illumination, alignment of field diaphragm, and neutral density filtration are front-mounted. Eye tubes converge and their separation is adjustable by thumb wheel. Coarse and fine focus controls are located at the base. The stage is fixed to the stand and the nosepiece is moved in focusing. The trinocular body includes a swing-out prism to divert light to eyepieces, camera, or viewing screen. AO Scientific Instruments. Circle 556.

DNA Sequencing Cell

Model 1800 eliminates distortions such as the "smile" effect by maintaining temperature evenly across the gel during electrophoresis. The entire gel is clamped against leakproof seals to form one wall of the extended upper buffer chamber to dissipate heat evenly. This increases resolution and minimizes distortion caused by variations in rate of migration due to temperature differences. Bio-Rad Laboratories. Circle 558.

Literature

Research Chemicals and Materials includes organic chemicals, analytical standards, and research grade gases. Assays, molecular weights, and physical constants are detailed for more than 10,000 products. Alfa Products. Circle 563.


Balances features the series 1600 electronic instruments for analytic applications. The four models are microprocessor-controlled. Brinkmann Instruments. Circle 565.


Production Scale HPLC Apparatus is the subject of a brochure. Information on column preparation, operation, design application notes, and sample chromatograms are presented. Elf Aquitaine Development. Circle 568.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by Science or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (on pages 342A and 414E) and placing it in a mailbox. Postage is free.

—RICHARD G. SOMMER
PRODUCTS and MATERIALS

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