

Dissolved Oxygen Probe

The DO-166 is a probe that measures the concentration of dissolved oxygen without wet chemistry methods. It plugs directly into any standard pH meter to measure concentrations between 0 and 14 ppm. The instrument's response time is less than 30 seconds for a 95% change. Calibration can be performed in air. The probe fits into a standard biological oxygen-demand (BOD) bottle for BOD measurements. A thermistor temperature compensator is built into the head of the probe. The DO-166 is available in lengths of 1.8, 4.6, and 7.6 m. Lazar Research Laboratories. Circle 542.

Chemical Structure Software

ChemIntosh DA is a desk accessory for Macintosh computers that enables the user to draw a chemical structure and transfer it to a word-processing document without leaving the word processor. Chemical diagrams may be copied back again into the desk accessory for editing. ChemIntosh DA has tools for placing symbol strings and for drawing 10 kinds of bonds, 19 kinds of rings, and 4 kinds of straight arrows (reaction, equilibrium, resonance, and dashed). Circles, ovals, and arcs may have either solid or dashed lines. The user can also "undo," receive on-line help, resize objects and text, and save and open documents. ChemIntosh DA operates on Macintosh computers with at least 512 kilobytes of memory and either a double-sided disk drive or a hard disk drive. \$295. SoftShell. Circle 557.

HPLC Multiple-Wavelength Detector

The model 1050 Multiple-Wavelength Detector is a programmable detector for ultraviolet and visible light absorbance in high-performance liquid chromatography. To simplify method setup, it displays the default parameters, and eight setups may be saved and stored in the memory. Start-up and turn-off can be programmed to occur

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 and placing it in a mailbox. Postage is free.

automatically. All ultraviolet-absorbing peaks can be detected in one trial with broad-band detection that provides the summation of all absorbances over a wavelength band as long as 400 nm between wavelengths of 190 and 600 nm. Once optimum wavelengths are known, sample and reference wavelengths can be programmed for measuring individual peaks at maximum sensitivity and selectivity as they elute. Simultaneous measurement at a reference wavelength allows background absorbance effects to be eliminated and interfering peaks to be suppressed automatically. \$9900. Hewlett-Packard. Circle 559.

Scanning Electron Microscope

The model SX-40A is a scanning electron microscope with many automated functions. These functions include the evacuation system, high-voltage turn-on, focusing, contrast and brightness control, and emission settings. The specimen stage is motor-driven, and samples may be as large as 15 cm in



diameter. The microscope operates at accelerating voltages from 1 to 30 kV, allowing it to be used both for beam-sensitive applications and at high-beam energies. Resolutions of 6 nm are possible. Scanning speed may vary from 0.2 to 160 seconds. Photomicrographs may be taken with the press of one button. Less than \$45,000. International Scientific Instruments. Circle 528.

TLC Documentation

The Photodocumentation System produces instant color or black-and-white photographs of thin-layer chromatography (TLC) plates. The system consists of a light-tight viewing cabinet with two overhead ports for ultraviolet lamps and a white-light box below. Centered between the lamp ports is an ultraviolet-filtered viewing port that can be removed to accommodate the

camera assembly. Variable camera shutter speeds and diaphragm openings allow the capture of faint spots. TLC plates as large as 20 by 20 cm may be photographed. Charring, iodine vapor or color reactions, and fluorescence and fluorescence-quench visualization techniques are compatible with the Photodocumentation System. Analtech. Circle 558.

Behavioral Research Software

THE OBSERVER is a software package that creates the software necessary to permit a portable computer to act as an event recorder. The program itself operates on a full-size personal computer. The user tells the program the type of experiment or observation planned and what events should be recorded; THE OBSERVER writes an event-recorder program and transfers it to the portable computer. The portable computer then can be taken into the field for data collection. The program allows 60 keys to be defined as events, and the portable computer can ask as many as 20 questions and store the answers with the rest of the data. THE OBSERVER can also retrieve the data files from the portable computer, calculate statistics, and produce reports and tables that can also be read by other statistical programs. THE OBSERVER requires an IBM PC or completely compatible computer with at least 256 kilobytes of random-access memory, an RS-232 port accessible as COM1, and MS- or PC-DOS 2.1 or later, as well as a TRS-80 model 100 portable computer. L. P. J. J. Noldus (The Netherlands). Circle 560.

Literature

1988 Product Guide is a catalog of immunological reagents. Serotec (England). Circle 550.

The *Integrating Sphere Instrumentation* catalog features integrating sphere photometers, reflectometers, power meters, and uniform light sources. Labsphere. Circle 551.

Chemalog Stable Isotopes is a brochure about deuterated compounds nuclear magnetic resonance solvents, and ¹³C-labeled compounds. Chemical Dynamics. Circle 553.

The *Short Form Catalog* features gas-filled radiation detectors, including Geiger-Müller tubes and probes, proportional counters, fission chambers, gamma ionization chambers, and reactor control chambers. TGM Detectors. Circle 570.

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