

New Products

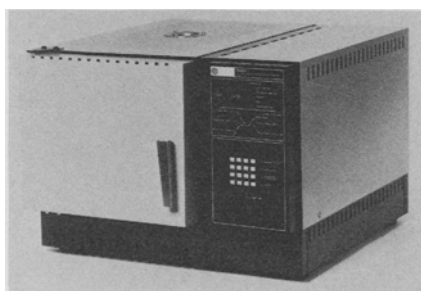
RELATIVE HUMIDITY TRANSDUCER

Phys-Chemical Research Corp. has introduced a new relative humidity transducer. The miniature-type sensor is an electric hygrometric circuit element that senses a change in relative humidity by changes in impedance. The response time of the sensor is shorter for increasing than for decreasing RH since water is adsorbed rapidly and released relatively slowly. Contact: Phys-Chemical Research Corp., 36 W. 20th St., New York, NY 10011.



DUAL DRIVE LABORATORY JACKS

TechniLab Instruments has new dual drive jacks for raising or lowering lab-ware accessories such as heavy flasks, baths and reaction vessels. The mechanism features two parallel operating screws with tandem chain and sprocket drive. Available in two sizes with gold anodized aluminum construction and a steel drive system, the jacks have a 15-foot remote control extension cord. Contact: TechniLab Instruments Inc., subsidiary of Bel-Art Products, Pequannock, NJ 07440.



ISOTEMP PROGRAMMABLE ASHING FURNACE

The Fisher model 495 isotherm programmable ashing furnace's microprocessor control and dual forced-air/gravity-convection capability automates, speeds and controls all kinds of ashing procedures. The furnace uses keyboard entry of ashing program and

LED indicators to guide program entry, monitor its progress and alert the user to program errors or functional problems. Contact: Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219.



NEW COMBUSTION EFFICIENCY SYSTEM

A new combustion efficiency system introduced by Beckman Instruments, featuring direct process heater damper control, offers savings in energy costs and reduces pollutant emissions, the firm says. The system monitors combustion efficiency by scanning CO, O₂, draft, fuel flow and skin temperature status conditions every six seconds. The system automatically opens or closes the damper until it reaches an optimal and safe operating position. An audible and visual multi-parameter alarm for abnormal conditions alerts the operator, while the microprocessor either moves the damper to correct the problem or sets the damper in the safe, open position. The new system saves up to 6% of energy used by oil refinery heaters. Contact: Beckman Instruments Inc., 2500 Harbor Blvd., Fullerton, CA 92634.

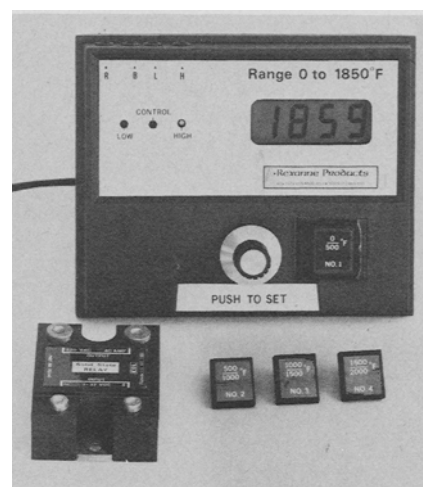
TURNER PHOTOMETER

The Turner Designs model 20 photometer can detect live bacteria in both the field and the lab. The photometer can be used in the oil, gas, chemical and food processing industries. Reagents signal the presence of bacteria to a level as low as just several hundred cells. Contact: Turner Designs, 2247 Old Middlefield Way, Mountain View, CA 94043.

ATOMIC ABSORPTION/EMISSION SPECTROPHOTOMETER

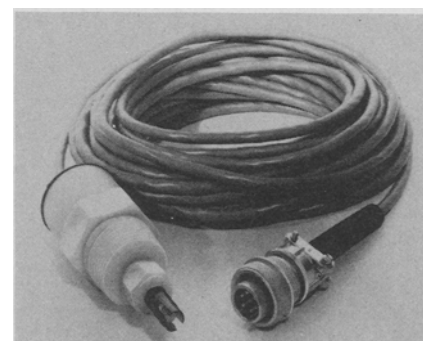
Buck Scientific announces its new atomic absorption/emission spectro-

photometer. The system's size is 27 × 8 × 9 inches and it weighs under 30 pounds. Electronic advantages include scale expansion, curve correction, integration and digital readout. Contact: Buck Scientific Inc., 58 Fort Point St., East Norwalk, CT 06855.



DIGITAL TEMPERATURE CONTROLLER

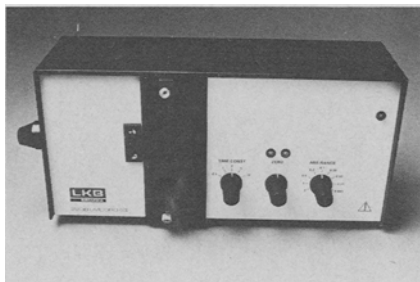
Rexanne Products' model 1700 temperature controller consists of a proportional AC heater controller and an accurate digital pyrometer in a 4-1/2 inch rectangular panel meter case. Temperatures from 0 to 1700 F can be sensed and displayed with an accuracy of ± 1 from 0 to 800 F using conventional type K thermocouples. High and low points, set by a high-contrast 1/2 inch liquid crystal display, are also adjustable and may be used to control alarms or non-proportional heaters and coolers via external relays. Contact: Rexanne Products, PO Box 39702, Los Angeles, CA 90039.



ON-LINE pH PROBE

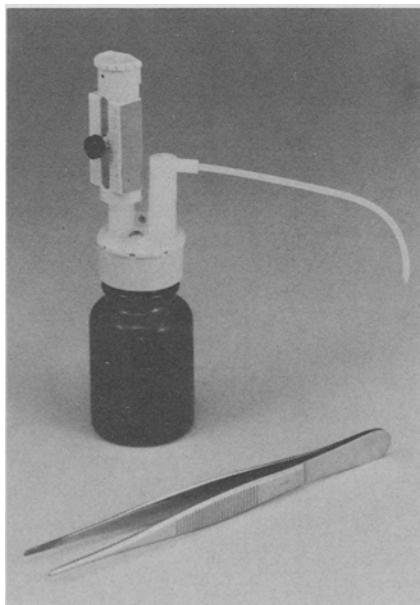
The MP-6 pH measuring electrode from McNab Inc. features a high-accuracy probe that will reduce pH

monitoring maintenance costs for industrial users. Reduced maintenance results from the permanently gel-filled MP-6 electrode. The electrode's patented precision-driven shield design helps reduce maintenance problems by eliminating a remote pH transmitter or preamplifier at or near the probe. This shield provides accurate readings with probe-to-monitor distances over 500 feet. Contact: McNab Inc., 20 N. MacQuesten Parkway, Mt. Vernon, NY 10550.



UV MONITOR

LKB Instruments has introduced its new UV monitor, designed for maximum flexibility and performance in a wide variety of applications. The new monitor has seven different wavelengths for detection and three flow cell modules for quick conversion from HPLC to LPLC to preparative scale chromatography. A variable time constant allows selection of the minimum possible noise level in any particular application. Contact: LKB Instruments Inc., 12221 Parklawn Dr., Rockville, MD 20852.



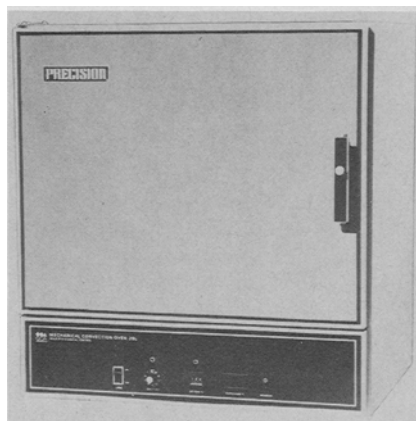
MICRO REPETITIVE DISPENSER

Tri-Continent's micro repetitive dispenser is adjustable for volumes from 0.01 to 0.1 mL and is available in two models. One model is polypropylene, stainless steel and glass, whereas the

other is Teflon, platinum and glass. Both models have adapters available to fit most bottles and serum vials from 5 to 500 mL. Contact: Tri-Continent Scientific Inc., 12541 Loma Rica Dr., Grass Valley, CA 95945.

ULTRAVIOLET/VISIBLE/ NEAR-INFRARED SPECTROPHOTOMETERS

Varian Associates' two new ultraviolet/visible/near-infrared spectrophotometers are designed to speed analytical procedures and minimize operator training by simplifying analysis setup. The microprocessor-controlled instruments include a CRT display and the ability to store analytical methods in a minitape cassette memory. The wavelength range includes ultraviolet-visible and the near-infrared. Contact: Ed Long, Varian Instrument Group, 611 Hansen Way, Palo Alto, CA 94303.



SOLID STATE MECHANICAL CONVECTION OVENS

GCA/Precision Scientific Group is offering two new mechanical convection ovens with solid state digital controls. Temperature is set from a solid state digital control and read from an LED real-time temperature display. The ovens, featuring a hydraulic safety thermostat and recorder output jacks, are rated for temperatures from 70 C to 225 C. With a conformity of ± 1.3 C or better, the ovens can be used for moisture analysis, melting, heat sensitivity and determination of solids and shrinkage. Contact: GCA/Precision Scientific Group, 3737 W. Cortland St., Chicago, IL 60647.

NEW PRODUCT LITERATURE

A 12-page brochure that describes the company's fragrance and flavor capabilities is available from Noville Essential Oil Co., 1312 Fifth St., North Bergen, NJ 07047. . . . Developments in chromatography are highlighted in Chem-Sep News, a newsletter distributed by Whatman Chemical Separation Inc., 9 Bridewell Place, Clifton, NJ 07014. . . . Arizona Chemical Co., 16-

00 Route 208, Fair Lawn, NJ 07410, offers a bulletin describing its terpene hydrocarbon resins and resin esters. . . . Grigsby pinch valves for controlling the flow of material in piping systems are described in a 32-page notebook offered by Mine and Smelter Div., Barber-Greene Co., 3800 Race St., PO Box 16067, Denver, CO 80216. . . . Kontes, Spruce St., PO Box 729, Vineland, NJ 08360, is distributing Bulletin 981 describing its new products, including flowmeters and vacuum solvent traps. . . . Data Sheet L-631 describing the technique and operation of backflushing and peak cutting available for Sigma Series gas chromatographs may be requested from Perkin-Elmer Corp., Main Ave., Mail Station 12, Norwalk, CT 06856. . . . A booklet that provides construction and specification details for five Podbielniak liquid/liquid contactors and illustrates their application in liquid/liquid separation, extraction, reaction, and washing operations, is available from Baker Perkins Inc., Chemical Machinery Div., 1000 Hess St., Saginaw, MI 48601. . . . Bulletin 800 illustrating the Accu-Batch computer-controlled electronic batch weigh system is available from The Manufacturers Equipment Co., 35 Enterprise Dr., Middletown, OH 45042. . . . Copies of the 1982 Whatman HPLC Catalog may be requested from Whatman Chemical Separation Inc., 9 Bridewell Place, Clifton, NJ 07014. . . . Vials, pre-mixed cocktails, flours standards and sources are covered in Bulletin 7397, Liquid Scintillation Supplies Handbook and Selection Guide from Beckman Instruments Inc., Scientific Instruments Div., Box C-19600, Campus Dr. at Jamboree Blvd., Irvine, CA 92713. . . . A reference paper, Continuous Gravity Separation of Oil from Water, prepared by ERC/Lancy, 3725 N. Dunlap St., St. Paul, MN 55112, reviews oil/water separation in general and the Lancy Corrugated Plate Separator specifically. . . . Chicago Boiler Co., Dept. RN, Clybourn Ave., Chicago, IL 60614, has published a brochure detailing its "Red Head" small media mills for dispersion and continuous wet grinding in the coatings, paint, and ink industries. . . . The new J-6M microprocessor-controlled centrifuge is the subject of Bulletin SB-606 from Beckman Instruments Inc., Spinco Dr., 1117 California Ave., Palo Alto, CA 91304.