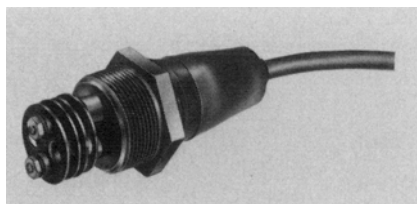


New Products



CONDUCTIVITY CELLS

Beckman Instruments has designed screw-in conductivity cells for measurement of ultra-pure water, intended for use by utilities, chemical processing plants and semiconductor manufacturers. Seven standard types of the Model CEL-Y(CQ)X4 Cells are available, each constructed of polyvinyl chloride material that eliminates contamination; all cells have nickel electrodes. Applications include steam generation, rinse-tank control and ion-exchange equipment. Contact: Beckman Instruments Inc., 2500 Harbor Blvd. PO Box 3100, Fullerton, CA 92634.



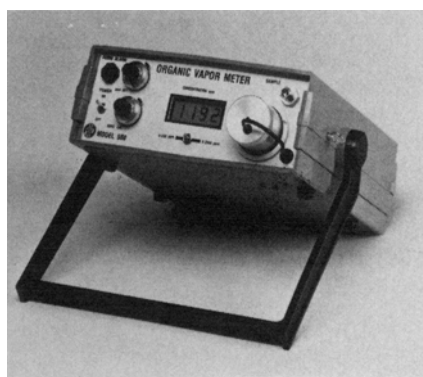
PORTABLE pH METERS

Two hand-held portable pH meters with 1-cm-high LCD displays for reading in sunlight are being offered by Orion Research. Model 211 has pH resolution to 0.01, slope adjustment, and recorder output. Model 221, which measures pH and temperature, has a temperature probe to measure sample temperature accurately. Both models are packaged in a foam-lined carrying case that holds the meter, gel-filled electrode, rinse water and buffer containers, and a line adapter for measuring without battery drainage. Contact: Orion Research Inc., 840 Memorial Dr., Cambridge, MA 02139.

AA SPECTROPHOTOMETERS

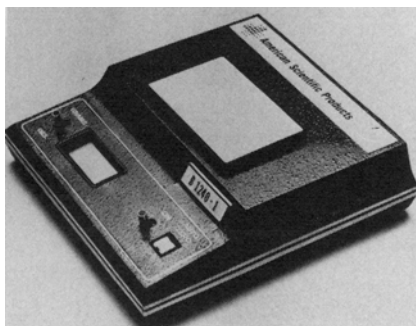
The Instrumentation Laboratory has two new spectrophotometers displaying standard features of curvature correction with up to five standards, complete statistics and an RS232C

computer interface. The Running Mean mode takes a series of readings sequentially, whereas the digital display shows the continually updated mean value. When further readings produce virtually no change in the display, optimal determination has been achieved. The IL357 is a single-beam instrument; the IL457 can be operated in either the double-beam or the single-beam mode. Contact: Instrumentation Laboratory, Analytical Instrument Division, Wilmington, MA 01887.



VAPOR METER

Analytical Instrument Development is introducing the AID Model 580 Portable Organic Vapor Meter, designed to detect low levels of volatile organic compounds. Applications include on-site analysis to ensure OSHA compliance, detection of fugitive emissions from manufacturing equipment, and stack monitoring. Contact: Analytical Instrument Development Inc., Route 41 and Newark Rd., Avondale, PA 19311.



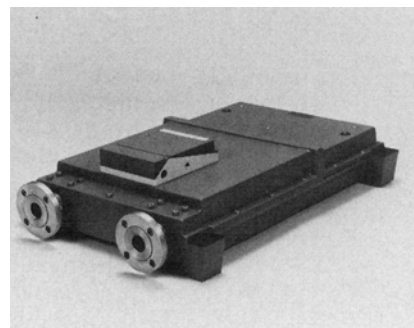
ELECTRONIC BALANCE

The Productivity Balance from American Scientific Products is the lab industry's first portable electronic balance. The balance, which automatically converts grams to ounces, has a

weighing capacity of 200 grams (7 oz) and an automatic taring range of 50 grams (1.75 oz). Applications include lab, plant, field, production-line and educational labs. Contact: American Scientific Products, 1430 Waukegan Rd., McGaw Park, IL 60085.

REPEATING DISPENSER

Bio-Post has added the new Portopet Repeating Dispenser to its line of liquid handling equipment. The Portopet features a Teflon plunger and is available in 0.5 ml and 1.0 ml capacities. Both units come with a 30-ml reagent reservoir. The reservoir and the three-way valve, made of chemical resistant polypropylene, are autoclavable, and thus suitable for use with bacterial and viral solutions. Contact: Bio-Post Inc., PO Box 2347, Rockville, MD 20852.



MASS FLOW METER

Micro Motion has replaced optical switches on its new mass flow meter with recently developed magnetic position detectors. The Model C flow meter ignores variations in fluid properties; changes in temperature, pressure, density and viscosity have no effect on its accuracy. It measures flow rate of any fluid without placing restrictions or intrusions in the flow path. The fluid, which can contain bubbles or solid particles, passes through an obstruction-free sensor. Contact: Micro Motion Inc., 7070 Winchester Circle, Boulder, CO 80301.

BATCH CORRECTION SYSTEM

A colorimeter-based, microprocessor-controlled Batch Correction System, produced by Hunterlab, is capable of determining what corrections would be made to a production batch in order to bring it within tolerance of a target color. The system uses a Hunterlab D25-9 tristimulus colorimeter and a program based on the Kubelka-Munk relationship of absorption and scatter-

ing to compute the rate of changes in concentration of each colorant. Batch correction programs are stored on floppy diskettes. Contact: Hunter Associates Laboratory Inc., 11495 Sunset Hills Rd., Reston, VA 22090.

WASTEWATER TREATMENT SYSTEM

ERC/Lancy is introducing a wastewater system, Aminodan, which was developed by Aminodan Technologies of Denmark. The company says that the system, currently in worldwide use in meat processing plants and plants manufacturing vegetable and mineral

oils, will make it possible to meet stringent pollution control standards while also recovering a potentially usable protein by-product. The chemical/mechanical separation technique of the Aminodan process makes it possible for proteinaceous materials, ordinarily dissolved in processing wastewater, to be coagulated into solid material. Contact: ERC/Lancy, 3725 Dunlap St., St. Paul, MN 55112.

LIQUID DISPENSER

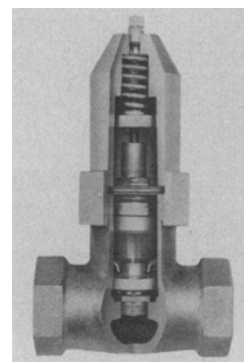
Tri-Continent Scientific has announced the latest addition to its liquid-handling product line, the Econ-

omatic Dispenser. This adjustable dispenser is available in two models with volume ranges of 0.1 ml to 1.0 ml, and 1.0 ml to 3.0 ml, and with accuracy and reproducibility of $\pm 1\%$ CV. The Economatic is constructed of a polypropylene body and precision-ground glass barrel and syringe. Contact: Tri-Continent Scientific Inc., 12541 Loma Rica Dr., Grass Valley, CA 95945.



TANK GAUGING AND INVENTORY CONTROL SYSTEMS

GPE Controls is marketing a microprocessor-based tank gauging and inventory control system which, the company says, provides the operator with greater program flexibility and easier access to field data. Telepulse 600 consists of field sensors, for both level and temperature, a central gathering unit, a color format CRT and single-key, command-dedicated keyboard. The system monitors and transmits data from up to 500 storage tanks and continuously updates information for points being monitored, computing data on command. Contact: GPE Controls, Morton Grove, IL.



FLUID TEMPERATURE SENSING VALVES

A new line of self-contained fluid temperature sensing valves, from Ogontz Controls Company, conserves water resources and, according to the company, provides maximal cooling system efficiency in air compressors, heat exchangers and other water-cooled devices. The Type FR fluid sensing valves respond to water or

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Des Moines, Iowa 50316
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C.A. Picard Inc.
305 Hill Brady Rd.
Battle Creek, MI 49015
616-962-2231

CAP PRODUCTS

CEP PRODUCTS

cooling fluid temperatures inside the valve body and automatically open when fluid temperature rises above a preset temperature. Controlled leakage through the valve is provided for constant, true temperature monitoring. Contact: Ogontz Controls Co., 141 Terwood Rd., Willow Grove, PA 19090.

DISPLAY SYSTEM

The Vitec Model 2205 graphic display system allows instant reading of monitors, the company says. Up to 30 channels of data can be simultaneously shown across a 15-inch CRT. When any alarm or set-point is reached, a microprocessor will display on the CRT the machine identification, channel number, signal level, and alarm or trip-set levels. Contact: Vitec Inc., Machinery Protection Instrumentation, 23645 Mercantile Rd., Cleveland, OH 44122.

CONNECTORS

Manostat has introduced a new line of quick tubing connectors with automatic shut-off featured on disconnect. The Stat-O-Loks are made of chrome-plated, brass bodies and are available for 1/8" and 1/4" standard laboratory rigid or flexible tubing such as PVC, rubber, silicone and Teflon. Contact: Manostat Corp., 519 8th Ave., New York, NY 10018.

PRODUCT LITERATURE

A four-color brochure available from the Paul Mueller Co., PO Box 828, Springfield, MO 65801, depicts a wide range of their chemical processing equipment Formulated catalysts, their applications, and company capabilities are detailed in a new 50-page catalog from the Harshaw Chemical Co., 23800 Mercantile Rd., Beachwood, OH 44122 New literature is available for the Model 2-336, an environmental control system from Com-Trol Inc., PO Box 724, 285 River St., Bucyrus, OH 44820 Posi-Seal International Inc., Routes 49 and U.S. 95, North Stonington, CT 06359, is offering a brochure on its line of Phoenix III Fire Safe Trunnion Valves and accompanying Nova 90 and Fire Sentry Fused Link Actuators A 160-page catalog, published by Applied Science Division, Milton Roy Company Laboratory Group, PO Box 440, State College, PA 16801, contains a complete selection of supplies and accessories for gas chromatography A two-color, two-page product sheet presents a series of KSP pinch valves for use in a wide variety of abrasive and corrosive applications

and is now available from RKL Controls, Fluids Handling Division, Robbins and Myers Inc., PO Box 276, Ark Road, Lumberton, NJ 08040 Velsicol Chemical Corp., 341 E. Ohio, Chicago, IL 60611, has several product information bulletins indicating the various properties of the Benzoflex range of high solvating plasticizers A brochure from Simon-Rose-downs, Cannon St., Hull, England, describes how physical or "non-caustic" refining systems in edible oil industry eliminate the caustic neutralization stage of traditional refining methods Greatglas, 2040 Telegraph Rd., Wilmington, DE 19808, has produced a 20-page catalog of its line of glass GC columns, which are available for most popular gas chromatographs in a variety of sizes and configurations A new concept in thermal desorption of sorbent collector tubes for measuring time-weighted averages is detailed in a brochure published by Foxboro Analytical, a Division of the Foxboro Co., South Norwalk, CT 06856 The Perkin-Elmer Corp., Main Ave., Norwalk, CT 06856, now has a 43-page book entitled **Differential Scanning Calorimetry**, and a full-color brochure describing the new DSC-2C Differential Scanning Calorimeter Literature available from Beckman Instruments Inc., 2500 Harbor Blvd., PO Box 3100, Fullerton, CA 92634, features the company's one- and two-channel process recorders for control and analysis of petroleum processes, pipeline operations, chemical, petrochemical, pharmaceutical, and other industrial applications Climax Molybdenum Co., Reader Service Dept., PO Box 594, Canal Street Station, New York, NY 10013, has issued a brochure entitled **Simple Molybdates of the Elements**, a literature survey with 472 references on the properties of molybdates with other elements A 20-page, two-color brochure giving details of high capacity Evaporative Condensers is available from Frick Co., 345 W. Main St., Waynesboro, PA 17268 Whatman Inc., 9 Bridewell Place, Clifton, NJ 07014, has announced publication of a full-color, 24-page catalog discussing the new Whatman cellulose nitrate and PTFE membrane filters and membrane hardware A technical folder from Clark-Reliance Corp., Technical Services Dept., 15901 Industrial Parkway, Cleveland, OH 44135, includes information on system operation, schematics, component detail and application/installation data for its Retopak PC probe-type control package

Allied Chemical Corp., PO Box 2332R, Morris Township, NJ 07960, has prepared a technical report dealing with the properties and preparation of A-C polyethylene gels for paints and finishes.

. . . . A collection of literature compiled by Foxboro Analytical, South Norwalk, CT 06856, focuses on resistivity monitoring systems for industrial users of pure and ultrapure water. . . .

Phosphine Chemicals—The Applications, a new brochure from American Cyanamid Co., Phosphine Chemicals, Wayne, NJ 07470, outlines the major classes of phosphine chemicals and their properties and describes some applications. . . . The Warren Rupp Co., PO Box 1568, Mansfield, OH 44901, has a new folder on the company's air-powered pump models that are equipped with ball valves. . . . A new bulletin from Fisher Scientific, 711 Forbes Ave., Pittsburgh, PA 15219, provides information on the Recordall Strip Chart Recorders, which provide 1/2 second full scale response, $\pm 0.3\%$ full-scale accuracy and $\pm 0.1\%$ repeatability. . . . The C.P. Hall Co., 7300 S. Central Ave., Chicago, IL 60638, has published a 16-page booklet to serve as a guide to 126 esters manufactured by the company. . . . New application notes describing the uses of the Model 310 Polarographic Detector in the HPLC determination of N-nitrosamines are now available from EG&G Princeton Applied Research Corp., PO Box 2565, Princeton, NJ 08540 A 60-page catalog issued by KOR Isotopes Inc., 56 Rogers St., Cambridge, MA 02142, lists the company's complete line of stable isotope-labeled compounds. . . . Supelco Inc., Supelco Park, Bellefonte, PA 16823, has announced publication of its **Chromatography Catalog No. 18**, offering products for gas chromatography, liquid chromatography and thin layer chromatography. . . . A 32-page full color brochure, **Lonza — Concepts plus Chemistry**, issued by Lonza Inc., Fair Lawn, NJ 07410, describes and illustrates specialty chemicals, organic intermediates, fine chemicals, inorganic chemicals and PVC foams. . . . Selecting an oxygen analyzer/controller system is the subject of a pamphlet published by Neutronics Inc., 450 Drew Court, King of Prussia, PA 19406.

Order the **Weston Product Guide** on properties and characteristics of solid and liquid phosphite stabilizers and alkylphenols from Weston Product Guide, Borg-Warner Chemicals, International Center, Parkersburg, WV 26101. □