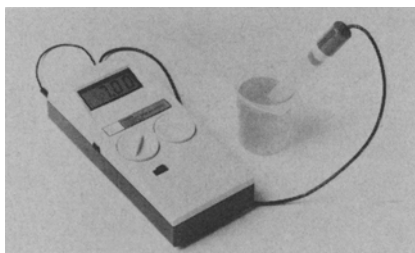
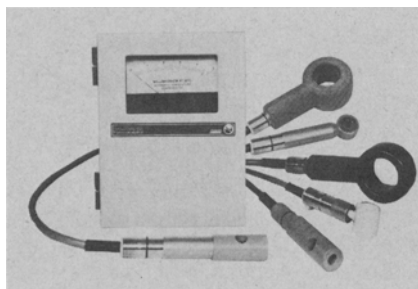

New Products



DIGITAL pH/mV METER

A portable, hand-held, digital pH/mV meter, the Fisher Accumet 640, is designed for on-site testing of manufacturing effluents and monitoring water supplies. This small and accurate model incorporates automatic polarity switching, a polarity indicator and easy-to-read four-digit LCD display. The Accumet 640 operates at two hours per day, up to five months, on a single 9V alkaline transistor battery. Contact: Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219.



ELECTRODELESS SENSORS

Two new sensors are available from Foxboro Analytical for use with the 1210 Electrodeless Conductivity Monitoring System. Molded of fluorocarbon, the 1210TF sensor is designed for use in highly corrosive chemical solutions such as hot caustics, sulfuric acid, oleum or solutions that contain organic solvents. In the 1210AB sensor, an abrasion-resistant rubber coating encases a large bore sensor that minimizes the fouling encountered in process slurries. These two new models are based on the electrodeless concept of sensing conductivity in place of direct contact. Contact: Foxboro Analytical, 140 Water St., Box 5449, S. Norwalk, CT 06856.

SENSOR ASSEMBLY

Beckman Instruments has a new sample dish sensor assembly for measuring discrete samples for water activity or relative equilibrium moisture. The sensor also tests liquids and

sticky, pasty or seemingly dry materials. The Model EBS provides a positive seal at the signal cable entry and between the element and mounting crown, and an improved response due to a reduction in sensor housing deadspace volume. Applications include production monitoring, quality assurance testing, and research and development in food technology. Contact: Beckman Instruments Inc., 2500 Harbor Blvd., Box 3100, Fullerton, CA 92634.

FREEZE DRYER

A slim-line freeze dryer is available from Labconco Corp. for laboratories lyophilizing small quantities of materials. The Freeze Dryer-3 has a single-run capacity of 1 L and an ice-holding capacity of 3 L before defrosting is necessary. It has a corrosion-resistant, epoxy-coated steel cabinet with an electrical outlet and adequate space for enclosing the vacuum pump of choice. The freeze dryer is equipped with a 1/3 hp refrigeration system which cools the condenser to -50 C in less than 20 min. Instrumentation and controls, mounted on the front panel, include a large face pyrometer with dual indication in degrees C and F. Contact: Labconco Corp., 8811 Prospect, Kansas City, MO 64132.

AIR FLOTATION AND INCLINED PLATE SEPARATOR

A combination dissolved air flotation and inclined plate separator has been introduced by Clow Corp. for industrial waste treatment applications involving liquid-solid separations. The J-7000 series combines the two effective processes in a single space-saving unit which permits large volumes of water to be clarified in a comparatively small area. Clow says the system is designed to remove contaminants such as BOD, suspended solids, oil and grease at lowest cost while meeting EPA and municipal standards. Contact: Waste Treatment Div., Clow Corp., PO Box 68, Florence, KY 41042.

COMBUSTION ANALYZER

A miniaturized portable continuous combustion efficiency analyzer has been developed by Energy Efficiency Systems. According to the company, the ENERAC Pocket 50 provides a faster, more economical and more accurate measurement of combustion

efficiency than previous instruments. Boilers or furnaces may be fine-tuned by inserting a single stack probe, pushing the combustion efficiency selector switch, and observing the display. As the air/fuel ratio is adjusted, increases in fuel efficiency are instantly noted on the continuous digital readout. The ENERAC is fully computerized to perform all the necessary calculations and is slightly larger than a pocket calculator. Contact: Energy Efficiency Systems Inc., 1211 Stewart Ave., Bethpage, NY 11714.



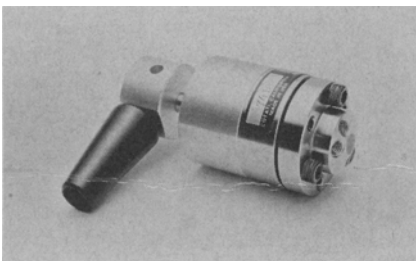
PROCESS SAMPLER

The new Dopak Sampler offers a method of taking representative samples during a continuous production process. Designed to eliminate spillage and contamination, the sampler, which is permanently installed, uses needles to inject fluid into a self-sealing bottle. Standard models are in stainless steel, although special alloy designations are available. Bottles are supplied in 60 cc and 300 cc. Contact: Dopak Inc., 252 Nassau St., Princeton, NJ 08540.

TRANSMITTER WITH SQUARE ROOT EXTRACTOR

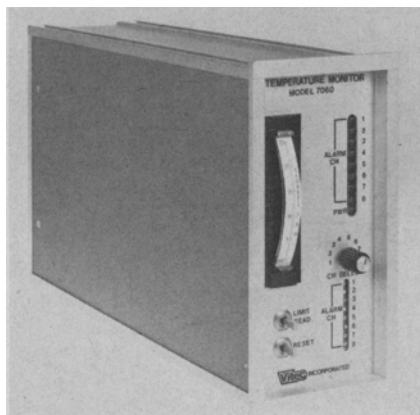
Rochester Instrument Systems has added a square root extractor to the Series 3300 line of two-wire transmitters. The new model SC-3330 takes the 4-20 mA input of a loop-powered sensing unit and converts it to a 4-20 mA output, proportional to the square root of the sensor's signal. It uses two-wire technology and state-of-the-

art integrated circuitry to achieve high accuracy, the company says. Ambient temperature effects are minimal, since the SC-3330 operates over a temperature range of -25 F to 185 F. Contact: Rochester Instrument Systems, 255 N. Union St., Rochester, NY 14605.



MICRO HPLC INJECTOR

Rheodyne Inc. has produced a micro sample injector to enhance the resolution of HPLC microcolumns. The Rheodyne 7410 injects small samples, loaded in interchangeable sample loops holding 0.5, 1, 2 and 5 microliters. Narrow flow passages within the injector decrease zone spreading before the sample reaches the column and thus increases the resolution at the column outlet. The 10-fold range in sample loop sizes permits the user to operate with maximum resolution (0.5 μL) or maximum sensitivity (5 μL). The injector is available in both manual and automatic versions, and operates at pressures up to 7000 psi. Contact: Rheodyne Inc., PO Box 996, Cotati, CA 94928.



TEMPERATURE MONITOR

A digitally accurate, 8-channel RTD temperature monitor, from Vitec, has a large, easy-to-read meter, LED indication of channel alarm, and individually adjustable alarm limits with separate relays. The company says that the digital design and LSI circuitry of the Model 7060 allow for virtually drift-free operation and easy field change of range without recalibration. Contact: Vitec Inc., 23645 Mercantile Rd., Cleveland, OH 44122.

TLC PLATES

Analtech Inc. has announced a new line of pre-adsorbent TLC plates which have a hard layer separation section made with high-performance silica gel. These Hard Layer TLC Uniplates make separations 20-30% faster than conventional plates and give greater accuracy and reproducibility, according to Analtech, because the 8-12-micron silica gel particle size provides consistent adsorption and migration. The separation area is abrasion resistant and water resistant, so plates can be stacked and are compatible with aqueous solvent systems. Contact: Analtech Inc., 75 Blue Hen Dr., Newark, DE 19711.

PROCESS CONTROL

A new process control that provides complete, simultaneous automation of batching, mixing, formulating and material flow has been developed by Wisconsin Electrical for use in the processing of agricultural feeds, chemicals and food products. The F-101 system incorporates a solid state, bubble memory. The system also uses an advanced microcomputer and is complete with CRT, printer and executive access as standard equipment. Contact: Wisconsin Electrical Mfg. Co. Inc., 2501 S. Moorland Rd., New Berlin, WI 53151.

HUMETER, ANALOG INDICATOR

The Model B Humeter, introduced by Phys-Chemical Research Corp., is a precision instrument for the direct measurement of relative humidity. The model features a new high-strength phenolic PCRC-11 HPB rapid-response probe containing a relative humidity sensor as well as an integrated circuit temperature compensating sensor. Components and specifications of the system, the company says, have been optimized for continuous reliable measurement over the range of 0-100% RH with automatic temperature compensation from -5 to 65 C. Contact: Phys-Chemical Research Corp., 36 W. 20th St., New York, NY 10011.

VACUUM BLOWERS

The Stokes Division of Penwalt Corp. has developed a new generation of heavy-duty blowers which are designed, according to the company, to enhance the reliability of vacuum processing for a wide range of industrial uses. The blowers are built to withstand the harsh environments encountered in such industrial applications as vacuum heat treating and biological freeze drying, among others, and to cope with dirt and corrosive gases. These high-vacuum blowers can handle large gas loads at low pressures and inert oils without internal modifi-

cations or material changes. Contact: Stokes Division, Penwalt Corp., 5500 Tabor Rd., Philadelphia, PA 19120.

HIGH-SPEED LC PACKAGE

Perkin-Elmer is now offering a High-Speed LC Package for analysis in high speed liquid chromatography techniques, which permits analyses to be completed in under 2 min while maintaining high resolution. The package includes a low volume injector valve, LC-85 Detector with optional 2.4 microliter detector flow cell, and connecting tube. Contact: Perkin-Elmer Corp., Main Ave., Mail Station 12, Norwalk, CT 06856.

PRODUCT LITERATURE

Specifications and principles of operation for the CSI Minilab 700 are provided in a new publication from Columbia Scientific Industries Corp., PO Box 9908, Austin, TX 78766 . . . Gelman Sciences Inc., 600 S. Wagner Rd., Ann Arbor, MI 48106, has released its new **Laboratory Filtration Catalog '81**, PB 600, with complete listings and descriptions of all its filtration products . . . Drummond Scientific Co., Box D, Broomall, PA 19008, has a new 16-page, two-color catalog of precision microliter liquid handling devices . . . A new bulletin from Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219, describes the company's disposable liquid/liquid extraction columns . . . A moisture/humidity instrumentation catalog is available from Beckman Instruments Inc., 2500 Harbor Blvd., Box 3100, Fullerton, CA 92634, as a combination quick reference guide/literature order . . . Wilmad Glass Co. Inc., Route 40 and Oak Rd., Buena, NJ 08310, is offering an enlarged catalog covering materials and supplies for use in infrared spectrophotometry . . . Information on pre-packed gel filtration HPLC columns is presented in a new data sheet for Kratos Inc., Schoeffel Instrument Div., 24 Booker St., Westwood, NJ 07675 . . . The Anspec Co. Inc., 122 Enterprise Dr., PO Box 77301, Ann Arbor, MI 48107, has published the first issue of the **Analytical Specialist**, a bulletin reporting the latest news on developments in equipment and supplies for chromatographers . . . An eight-page catalog from Rochester Instrument Systems, 255 N. Union St., Rochester, NY 14605, introduces the new Series AN-4100, a multi-fraction, high-capacity, microprocessor-based monitoring system . . . **Application Note 30**, published by Dionex Corp., 1228 Titan Way, Sunnyvale, CA 94086, discusses the successful analysis of Kraft pulping liquors using ion chromatography combined with electrochemical detec-

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(High Density Lipoproteins)

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- I. Structure, Function and Analysis
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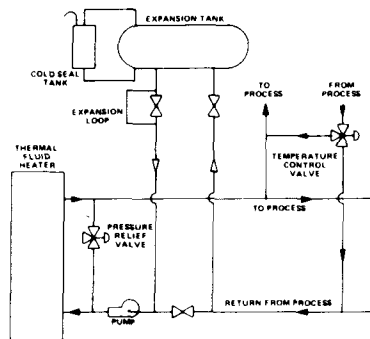


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CA 95050 A color brochure has been produced by K-Tron Arizona Inc., 14433 N. 73rd St., Scottsdale, AZ 85260 to describe its battery (or line power) operated weighing balances. . . . An applications bulletin from Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219, offers a fast and reliable method for determining moisture content of pharmaceutical tablets using the Fisher Automatic K-F Titrimeter. . . . An illustrated technical folder describes the line of high-efficiency, low-energy Hydroshear Systems manufactured by Gaulin Corp., Garden St., Everett, MA 02149. . . . Now available from Gilmont Instruments Inc., 401 Great Neck Rd., Great Neck, NY 11021, is the **G81 Catalog of Instruments for the Laboratory**, featuring the mercury-free McLeod gage. . . . A brochure from Marpac, 1900 Dempster St., Evanston, IL 60204, includes illustrations and design information regarding the ANSI 150 and 300 class metal seated ball valves. . . . GPE Controls, 6511 Oakton St., Morton Grove, IL 60053, has an 8-page brochure describing the complete operation of the Telepulse 600 remote storage tank gauging and inventory systems.