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# New Products

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## LOW RANGE DELTA P INSTRUMENTS

Orange Research has developed a series of differential pressure instruments to indicate pressure changes as low as 0-15" water in systems with static or over-pressures of up to 1500 psig. Applications include flow measurement, stack monitoring, liquid level measurement, strainers and gas or liquid filter applications. Contact: Orange Research Inc., 140 Cascade Blvd., Milford, CT 06460.

## POST COLUMN REACTION SYSTEM FOR HPLC

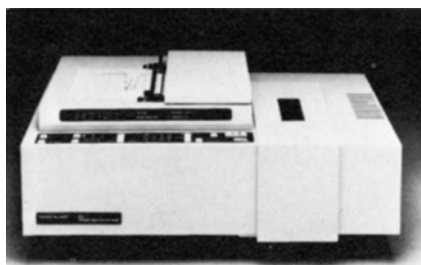
Kratos has introduced a new universal post column reaction system for HPLC. The URS 100 is completely self-contained and designed to satisfy a broad range of reaction condition requirements as might be required for a variety of post column derivatization methods. The system increases the detectability of certain compounds, including nucleic acids, amino acids, proteins and peptides. The URS 100, which may be used with any liquid chromatograph and detector, also provides control over the three reaction conditions—reagent flow rate, total reaction time between column and detector, and reaction temperature. Contact: Kratos Inc., Schoeffel Instrument Division, 24 Booker St., Westwood, NJ 07675.



## COLORIMETRIC SYSTEM

A new XL-825 colorimeter quality control instrument, from Gardner Laboratory Division of Pacific Scientific, has the ability to measure large and bulky objects which cannot be presented readily to a conventional colorimeter. Remote measurement and flexibility of movement are provided by a 5-foot fiber optic cable on the head of a light-weight optical sensor. A compact control console features digital readout with instant switching to any of the four standard color

scales or indices. Contact: Gardner Laboratory Division, Pacific Scientific, PO Box 5728, 5521 Landy Lane, Bethesda, MD 20014.



## IR SPECTROPHOTOMETER

Perkin-Elmer has a new addition to its line of high performance microprocessor-controlled infrared spectrophotometers. The Model 684 features pre-sample chopping which allows the user to obtain accurate spectra with samples that reradiate at or above room temperature, causing inaccurate absorption values. The company claims that the wider slit program provided on this model will permit the achievement of better signal-to-noise ratios and work with highly absorbing samples and micro samples. Contact: Perkin-Elmer Corp., Main Ave., Norwalk, CT 06856.

## ELECTRODE SIMULATOR

A pH Meter Tester/Electrode Simulator from L.G. Nester provides a portable, light-weight, signal source for testing and calibrating pH meters, controllers, transmitters, recorders, and alarms in field or laboratory applications with an accuracy of 1%. The Mini-Test is battery powered and easy to operate. Contact: L.G. Nester, subsidiary of Leeds and Northrup, Box 666, Millville, NJ 08332.

## CHROMATOGRAPHY RECORDER

Linear Instruments says that the Model 1210 chromatography recorder was built in response to a survey of nearly 3,000 chromatographers who named features which they wanted most in a recorder. Model 1210 has a recessed zero adjustment, front mounted, push-button control of power, chart drive and full scale spans. Chart drive speed is 1 cm/min but speeds of .25, .5, 2 or 4 cm/min are available through quick and simple gear changes. Contact: Linear Instruments, 17282 Eastman Ave., Irvine, CA 92714.



## pH GLASS ELECTRODE

The Plunger series of electrodes, developed by Innovative Sensors, has a temperature range of -35 to +15 C, designed to prevent thermal stress caused by freezing and boiling which often results in breakage. These glass electrodes will tolerate an instant temperature change from 0 to 12 C and are available in a large variety of configurations to fit any pH sensor. Contact: Innovative Sensors Inc., 4358 La Palma, Anaheim, CA 93807.

## HUMIDITY INSTRUMENT

The Model B Hygrocon-1 Indicator/Controller, from Phys-Chemical Research Corp., provides direct measurement and control of relative humidity. Features include direct readout with a single adjustable control point, which covers the complete humidity range of the instrument, and improved electronics mated to a rapid response probe containing a relative humidity sensor as well as an integrated circuit temperature compensating sensor. Contact: Phys-Chemical Research Corp., 36 W. 20th St., New York, NY 10011.



## KJELDAHL ANALYZER

A recent development from the Swedish company, Tecator, is the

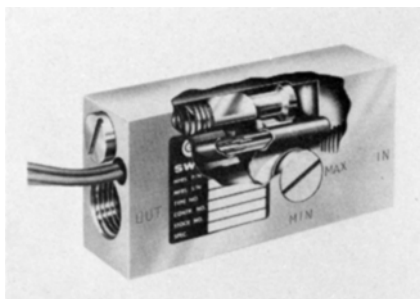
Kjeltec Auto 1030 Analyzer, for fast, automatic and accurate Kjeldahl protein/nitrogen analyses of grains, feed, food, water and chemicals. Built around a microprocessor which automatically controls dispensing of reagents, titration and calculation, the analyzer produces results in about two minutes. The analyses are presented on a digital display or an optional printer. A special feature of the 1030 Analyzer is the rapid procedure for complete protein measurement in raw materials (less than five minutes, including sample preparation). Contact: Tecator Inc., PO Box 405, Herndon, VA 22070.

#### HOTPLATES

Fisher Scientific is introducing an extensive new line of Thermix Hotplates for stirring and general purpose, which provide a choice of operating temperatures from 400 or 500 C, with maximal stirring speeds of 1,000 or 1,200 rpm. Contact: Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219.

#### MOISTURE ANALYZER

Beckman Instruments' new trace moisture analyzer has monitoring applications for industrial processes ranging from electronics manufacturing to lamp production. The Model 340 provides continuous measurement of water content in gaseous streams or dry-gas atmospheres and meets all quality control standards. A field-proven, electrolytic detector cell using rhodium improves the precision and corrosion resistance of the analyzer. Contact: Beckman Instruments Inc., Process Instruments Division, Technical Information Section, 2500 Harbor Blvd., Fullerton, CA 93624.



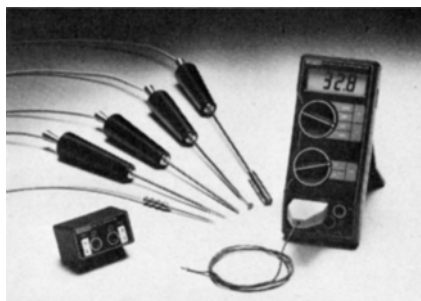
#### ADJUSTABLE FLOW SWITCHES

Adjustable flow switches, developed by Gems Sensors Division, provide accurate flow rate detection to protect expensive equipment. The Model FS-10798 flow switch is for use in liquids or gases to help protect machine tools from coolant flow failure, to ensure proper air flow in pneumatic lines, to safeguard bearings from loss of lubricant or to act as a simple, adjustable auxiliary alarm for roto-

meters in existing systems, test stands or process controls. The unit has a hermetically sealed SPDT magnetic switch and is made from corrosion-resistant materials. Contact: Gems Sensors Division, Transamerica Delaval Inc., Plainville, CT 06062.

#### TEST TUBE SHAKERS AND ROTATORS

A complete, new line of silent test tube shakers and rotators is now available from Labindustries. The Labquake Shaker models can vary in speed from gentle to vigorous motion and can hold tubes of any diameter up to 6-3/8" long. Two removable trays are included and tubes may be added and removed while the motor is running. The Labquake Rotator models provide a constant rotating motion at 8 rpm. Contact: Labindustries, 620 Hearst Ave., Berkeley, CA 94710.



#### THERMOMETER

Keithley Instruments says that its Model 870—a thermocouple-based precision thermometer—combines the performance and versatility of extensive bench models in a rugged, low-cost, hand-held package. Durable thermocouple inputs provide a wide temperature span and fast thermal response. A selection of optional probes include immersion, penetration, surface, air-gas and hypodermic types and the thermometer is provided with both Fahrenheit and Celsius scales, each having a dual range. Contact: Keithley Instruments Inc., 28775 Aurora Rd., Cleveland, OH 44139.



#### LABELED L-AMINO ACIDS

KOR Isotopes is offering a line of

high-purity N-15 and C-13 labeled L-amino acids which the company believes to be the most comprehensive group of stable labeled synthetic amino acids now on the market. The compounds are produced using capillary gas chromatography on chiral phase columns to ensure the precise quantitation of optical purity. Contact: KOR Isotopes, Division of KOR Inc., 56 Rogers St., Cambridge, MA 02142.

#### NEW PRODUCT LITERATURE

A complete line of infrared sample handling equipment and portable analyzers is presented in the 1981 edition of **Wilks Infrared Spectroscopy Accessories Catalog** from Analabs, a unit of Foxboro Analytical, 140 Water St., PO Box 5449, S. Norwalk, CT 06856. . . . A booklet entitled **Process Refrigeration Heat Exchangers** describes equipment developed by Carrier Machinery and Systems Division, PO Box 4808, Syracuse, NY 13221. . . . **Analtech Inc.**, 75 Blue Hen Dr., Newark, DE 19711, has produced a 40-page catalog covering thin layer chromatography techniques, products, and accessories. . . . An illustrated leaflet from **Hacker Instruments Inc.**, PO Box 657, Fairfield, NJ 07006, describes the H/I Polarizing Microscope Series 600. . . . **MCB Manufacturing Chemists Inc.**, 480 Democrat Rd., Biggstown, NJ 08027, recently announced the availability of their 1981 **Reagents Buying Guide** which details the specifications of MCB's high-purity, ACS- and technical-grade solvents, acids, organics and inorganics. . . . **Petrochemical and Refining Applications for Ultra High Pressure Water Jetting** is a brochure from the Partek Corp., PO Box 18312, Houston, TX 77023, which gives information on cleaning heat exchangers, pipeline cleaning, preparation for painting, rubber removal and cleaning chlorine cells. . . . A 6-page brochure from **Gauling Corp.**, Garden St., Everett, MA 02149, describes the design, construction, operation and applications potential of the Gauling lab-scale high pressure homogenizers and low-energy hydroshear systems. . . . The newly expanded line of **Technicon instrumentation** and methods is featured in a special issue of the **New Products Newsletter**, available from **Technicon Instruments Corp.**, 511 Benedict Ave., Tarrytown, NY 10591.