Heat-Exchanger Adapters

Lytron's push-to-connect adapters can be used with its more than 130 models of standard heat exchangers. The adapters

are easy to install and are designed to configure tubing connections for specific applications without expensive customization. The acetal plastic devices, which include reducing and elbow unions and tube-to-hose adapters, can be used at temperatures from 33 to 140 °F with all commonly available coolants and with pressures up to 250 psi. Applications include use with medical and industrial lasers, medical-imaging devices, analytical instruments, power electronics, machine tools, and aerospace, military, telecommunications, and semiconductor equipment.

Lytron, Inc.
55 Dragon Court
Woburn, MA 01801
Circle No. 180 on Reader Service Card

Power Supplies

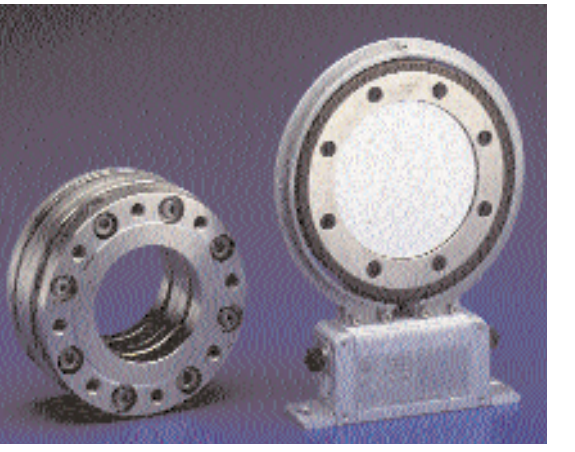
Kepco has added a series of 30-W models to its JBW line of power supplies. The 30-W series consists of single-output devices in the range of 5 to 24 V dc, as do the 10- and 15-W models. The 30-W devices accept universal ac input from 85 to 264 V or dc input from 110 to 370 V. The new units measure 55 × 122 × 26 mm and meet international electromagnetic interference and safety standards. The entire JBW line of power supplies has open-frame PC-card construction, overvoltage protection, current limit with automatic recovery from an electrical short, and full input–output isolation.

Kepco, Inc.
131-38 Sanford Avenue
Flushing, NY 11352
Circle No. 181 on Reader Service Card

Microelectronics Machining

New Wave's new AccuLaze microelectronics-machining system is designed for applications such as thick- or thin-film resistor and capacitor trimming, hole drilling, liquid-crystal diode repair, and materials

marking and etching. The compact tabletop unit is also useful for semiconductor failure analysis, such as in circuit isolation and polyimide and passivation removal. AccuLaze is available in six wavelengths, from deep ultraviolet (213 nm) to infrared (1,064 nm). Each system includes a Nd:YAG laser, a high-magnification video system, and control software that allows trimming and repairing of many microdevices. AccuLaze's software also controls all laser parameters, device viewing, and stage positioning. Repetition rates vary depending on the AccuLaze model; spot sizes range from 10 to 150 μm.



New Wave Research
47613 Warm Springs Boulevard
Fremont, CA 94539
Circle No. 182 on Reader Service Card

Torque Sensor

HBM has introduced a more extensive measuring range for its leading torque-sensing device, the T10F Torque Flange, which is specifically designed for automotive test-stand applications. The new version of the T10F now provides a true ±3 kN•m (±2,200 ft•lb) measuring range with a minimum vibration bandwidth of 160% and a breaking torque more than 400% of full scale. It also features the same interface geometry, diameter, hole patterns, pitch circles, and continuous rotational speed of 10,000 rpm as the T10F's 2-kN•m model. HBM has a large selection of signal-conditioning devices for the T10F, including industrial amplifiers that allow easy linking to many interfaces and fieldbus systems, and complete digital measuring chains with associated software.

HBM, Inc.
19 Bartlett Street
Marlborough, MA 01752
Circle No. 183 on Reader Service Card

Data Acquisition

DATAQ has upgraded its DI-730 data-acquisition and control system to increase maximum voltage measurement capability to ±1,000 full scale. The personal computer-based system provides up to ±1,000-V isolation from input to output and from channel to channel. Six input ranges extend from ±1,000 V down to ±10 V full scale. The DI-730's overall sample rate of 250,000 samples/s enables the acquisition of signals ranging from dc to many kilohertz. Applications include in-vehicle measurements sys-

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tems for on- and off-road testing; generator-derived rpm measurements; and maintenance, troubleshooting, and design qualifications in industries such as steel, aluminum, mining, and paper.

DATAQ Instruments
150 Springside Drive, Suite B220
Akron, OH 44333
Circle No. 184 on Reader Service Card

Temperature Sensors

Minco's new line of bolt-on temperature sensors includes four models with through holes and two models with threaded-bolt

designs. The sensors' compact sizes enable mounting in small spaces, and their rugged lead-wire connections prevent damage during handling, installation, and operation. Platinum and nickel resistance-temperature detectors (RTDs) are available to match users' available instruments. Minco's 100 Ω at 0 °C platinum element meets the IEC 751 international standard,

and its 1,000 Ω at 0 °C platinum RTD provides greater sensitivity. Nickel elements of 100 Ω at 0 °C are also available. Applications include monitoring equipment in place, testing thermal characteristics of new designs, and adding thermal monitoring to an existing production machine.

Minco Products, Inc.
7300 Commerce Lane
Minneapolis, MN 55432-3177
Circle No. 185 on Reader Service Card

Platinum-Clad Anodes

Anomet supplies a full line of platinum-clad anodes for metal finishing and cathodic-protection applications that provide complete metallurgical bonding of the metals. The anodes

are available as wire, rods, and woven mesh of either platinum-clad niobium or platinum-clad titanium, with or without a copper core. The cladding ranges in thickness from 10 to 600 μin., depending on the application. Anomet's anodes are insoluble and provide superior mechanical strength and ductility. Wires and rods range from 0.031 to 1 in. in diameter, and woven mesh is supplied in widths up to 24 in. The platinum-clad anodes are dimensionally stable, which provides uniform plating in metal finishing processes.

Anomet Products, Inc.
830 Boston Turnpike
Shrewsbury, MA 01545
Circle No. 186 on Reader Service Card

Gas Monitor

Metrosonics' new pm-2000 personal gas monitor simultaneously measures up to four gases selected from a list that includes oxygen, combustible gases, and seven toxic gases. The compact monitor's large, backlighted liquid-crystal diode enables easy reading of

current concentration levels, peaks, and averages; average exposure over 8 h; short-term and peak exposure levels; and minimum and maximum oxygen levels. A loud, pulsing horn and flashing red light warn users when alarm conditions exist. The pm-2000's smart-sensor technology includes automatic sensor recognition, alarm set points, calibration levels and dates, and temperature compensation information. The gas monitor also has automatic one-button calibration, password protection, and an intelligent zeroing function. An optional sample-draw pump can sample gases from more than 50 ft away.

Metrosonics
1060 Corporate Center Drive
Oconomowoc, WI 53066
Circle No. 187 on Reader Service Card

New Software

Origin 7.0

OriginLab has released Origin 7.0, the newest version of its Windows-based scientific graphing and data-analysis software. Origin 7.0 combines presentation-quality graphics, the C language, and elements of the Numerical Algorithms Group, Inc., library in a single package, which allows ease of use and enables increased analytical power. Improvements also include modernized text and drawing tools, a new plotting wizard to guide users through the plotting process, and a nonlinear curve-fitting wizard. Advanced analysis systems include two-way analysis of variance. A new Code Builder interface added onto the software provides Origin 7.0 with a C programming and debugging capability.

OriginLab Corp.
One Roundhouse Plaza
Northampton, MA 01060
Circle No. 188 on Reader Service Card

The New Products section is based on information supplied by the manufacturers. *The Industrial Physicist* can assume no responsibility for its accuracy. To facilitate inquiries, a Reader Service Card is attached between pages 32 and 33. A few new product press releases are selected for each issue. We are looking for items that would interest a physicist working in industry. High-quality color art is taken into account. Mail to: New Products, *The Industrial Physicist*, One Physics Ellipse, College Park, MD 20740. Submission inquiries may be addressed to Stephanie Jankowski (sjankowski@aip.org), tel: 301-209-3004.