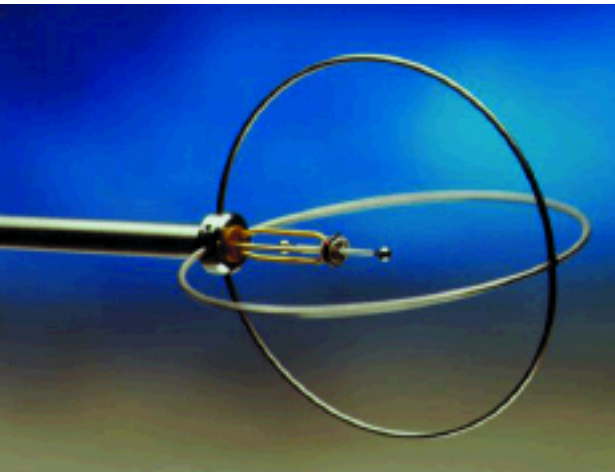


Indoor Flow System



industrial measurements. Its features include large liquid-crystal displays with readings in increments of 0.1 dB, a measuring range of 40 to 130 dB, maximum hold function, and a choice of fast or slow response. The 210 features simple, one-button calibration and has a durable, red-granite-colored, molded polymer case.

Quest Technologies, Inc.
1060 Corporate Center Drive
Oconomowoc, WI 53066
Circle No. 181 on Reader
Service Card

Dantec announces two enhanced models of its Indoor Flow System for measuring air velocity, temperature, and draft risk in ventilated indoor spaces. The new versions include omnidirectional transducers for low-velocity measurements of 0.05 to 1 m/s and steel-clad transducers for velocities of up to 30 m/s. The IFS-100 has up to four transducers, and the IFS-200 comes with up to eight transducers. Both can be configured with a combination of the two types of transducers selected by the customer. Applications include development of ventilation products, monitoring of draft risk in experimental setups and finished buildings, and indoor-climate research. The two models can also provide combined measurements of indoor flow and outdoor wind velocities. Dantec systems consist of the transducers, a tripod, portable personal computer with a built-in analog-to-digital converter, and LabVIEW software for data collection and presentation.

Dantec Measurement Technology A/S
P.O. Box 121
DK-2740 Skovlunde, Denmark
Circle No. 180 on Reader
Service Card

Sound-Level Meter

Quest Technologies has introduced its new, user-friendly Type 2 sound-level meter. The 210 model is suited for many laboratory, community, military, and



Solid-State Switch Module

Diversified Technologies has introduced an addition to its PowerMod line of pulse modulators and power supplies—a compact solid-state switch module designed to replace vacuum tube switches in a wide range of high-voltage applications. It features a greater than 99% switching efficiency without the limitations associated with vacuum tubes, such as arcing, emissions, and outgassing in the tube. The switch module has a predicted reliability of 1 million hours, requires only a dc voltage source and an input signal, and can be air cooled. The 7 × 7 × 2 in. module is available in two short-pulse and two long-pulse versions with voltages of 5, 7.5, and 9 kV. Units can be combined in series to 200 kV with 1- to 100-A current capability, dc to 400 kHz speed (pulse radio frequency), and switching in less than 50 ns. Applications include transmitter modu-

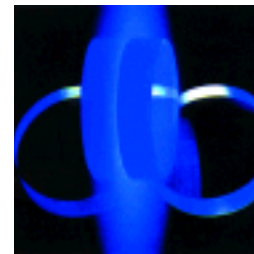


lators in radar systems, power-supply disconnects, and high-energy physics research.

Diversified Technologies, Inc.
35 Wiggins Avenue
Bedford, MA 01730-2345
Circle No. 182 on Reader Service Card

Fabry-Perot Etalons

Optical Surfaces provides a wide range of etalons, adjustable pairs of parallel mirrors that are essential components in many advanced interferometric techniques. The company's etalons may be purchased in pairs up to 150 mm in diameter, with matching accuracy up to $\lambda/300$. The mirror pairs, which are supplied with ring or optically contacted spacers, are typically coated to maximize throughput in the spectral region of interest. Etalons are supplied with wedge angles of 5 min of arc for smaller diameters. They rise in steps to a wedge angle of 40 arc min for diameters greater than 70 mm. Optical Surfaces supplies its etalons in standard materials, including ultraviolet-grade silica and germanium, and the mirrors come with full testing assurance.



Optical Surfaces Ltd.
Godstone Road, Kenley
Surrey, England CR8 5AA
Circle No. 183 on Reader Service Card

Helium Leak Detector

Alcatel's new helium leak detector, intended for heavy use in harsh industrial environments, incorporates the latest elec-



tronic
technologies
and
vacuum

concepts in a simple design that allows easy operation under any conditions. The ASM 142 has a 10-m³/h (7-cfm) roughing pump capacity for fast cycle time and a "floating" background suppression device for sensitivity in the 10⁻¹¹ atm cm³/s range in vacuum mode and 10⁻⁷ atm cm³/s range in sniffing mode. It also has a high helium pumping speed at the inlet port for fast response time. Applications include maintenance of complete systems such as vacuum furnaces, production or quality control of components, and outboard testing of pressurized parts.

Alcatel Vacuum Products, Inc.

67 Sharp Street

Hingham, MA 02043

Circle No. 184 on Reader Service Card

Birefringence Measurement

Hinds' new Exactor 150AT is a low-level birefringence measurement system for characterizing optical materials. The company developed the instrument to meet the semiconductor industry's demands for higher-quality optical components. The Exactor 150AT's refined photoelastic modulator ensures high sensitivity and provides birefringence magnitude and angle simultaneously. It displays data in two- and three-dimensional images and maps various optical materials from the ultraviolet to the infrared. The turnkey operation can characterize samples as large as 6 × 6 in. (12 × 12 in. optional), manually or automatically,



and intuitive software guides the operator through the step-measurement process.

Hinds Instruments, Inc.

3175 NW Alcock Drive

Hillsboro, OR 97124-7135

Circle No. 185 on Reader Service Card

Video Photometer

TRICOR's new 12-bit video photometer measures the absolute brightness of any size sample or scene and provides quantitative data in foot-lamberts or candelas per meter squared. The 822 model generates a 1,024 × 1,024 pixel image with a digitized 4049 gray scale. Applications include performance measurements of displays, lamps,



LEDs, back-lit panels and appliquéés, and control switches. The photometer also quantifies reflectance, luminance, contrast, viewing-angle performance, flatness, haze, and other appearance characteristics. The 822 uses TRICOR'S Eyeppearance 12 software, a Windows-compatible PC-based system, to provide the analytic tools that establish photometric levels for each pixel of a measured image.

TRICOR Systems, Inc.

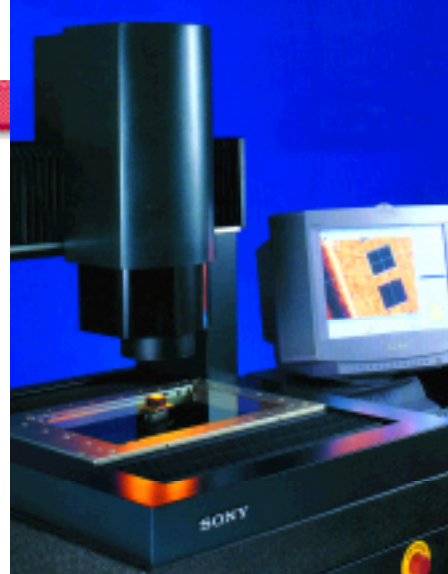
1650 Todd Farm Drive

Elgin, IL 60123

Circle No. 186 on Reader Service Card

Video Measuring System

Sony's new noncontact YM40 video measuring system uses software-driven optical video technology to measure parts with small, intricate, or flexible features that do not lend themselves to contact-inspection techniques. Applications include process control and various inspection-laboratory uses in the electrical-electronics, computer, automotive, medical-device, molded-plastics, and precision-stamping and tooling



industries. The unit has a proprietary three-dimensional mapping system that uses more than 150,000 points to achieve precise measurements. It also has a 64-cell LED ring light arranged in four 16-segment rings, a crucial element in extracting edge features for presentation to measuring tools. The LED cells in the ring can be used individually or in any combination.

Sony Precision Technology America, Inc.

20381 Hermana Circle

Lake Forest, CA 92630

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New Literature

Photonics Brochure

LINOS, a leading German photonics company, offers "Measurement and Detection," a new publication that lists the company's diverse line of products and services with applications in laser metrology, machine vision, and spectroscopy. The areas covered include optical systems; plano and crystalline optics; fiber optics; thin-film coatings; optics software; CCD cameras and lenses; optoelectronics; mounts, holders, and apertures; and manual and motorized positioners.

LINOS Photonics, Inc.

459 Fortune Boulevard

Milford, MA 01757-1723

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The New Products section is based on information supplied by the manufacturers and in some cases by independent sources. *The Industrial Physicist* can assume no responsibility for its accuracy. To facilitate inquiries, a Reader Service Card is attached between pages 32 and 33.