

New Products

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■ **SPECTROPHOTOMETER ATTACHMENT** for the model DU spectrophotometer prints wavelength and transmittance information directly on printed sheets or strip charts. The chart drive of the printer is attached to the wavelength knob of the spectrophotometer, and the pen drive is attached to the potentiometer. The operator sets each knob as he normally would and presses the print bar to record a dot whose location on the chart provides both wavelength and transmittance information. The attachment does not interfere with the normal use of the instrument, according to the manufacturer. (Connecticut Instrument Corp., Dept. Sci95, Wilton, Conn.)

■ **AUTOMATIC ATTENUATOR** for application in gas chromatography is designed to hold peaks on scale in recording results. The instrument automatically changes attenuation when the recorder pen reaches an upscale position of 95

percent or a downscale position of 35 percent. There are eleven attenuation positions which increase or decrease by a factor of two; these attenuations cover the range 1 to 1024 with an infinity position provided. A switch permits manual operation at any time; an auxiliary circuit prevents jamming or locking of the automatic mechanism when a peak requires several instantaneous changes of attenuation to remain on scale. (F. & M. Scientific Corp., Dept. Sci105, 1202 Arnold Ave., N.C.C. Airbase, New Castle, Del.)

■ **TRIAxIAL ACCELEROMETER** simultaneously measures acceleration in three mutually perpendicular planes. The unit has a sensitivity of 20 mv (peak)/grav along each axis and a frequency response of 2 cy to 5 kcy/sec; resonance frequency is 100 kcy/sec; maximum acceleration is 1000 grav; amplitude linearity is ± 1 percent. Temperature range is -65° to $+300^\circ\text{F}$ for standard units and -65° to $+500^\circ\text{F}$ for high-temperature units with less than ± 10 percent variation in sensitivity throughout the ranges. Three subminiature output connectors and low-noise cables are supplied. (Columbia Research Laboratories, Dept. Sci108, MacDade Blvd. and Bullens Lane, Woodlyne, Pa.)

■ **HUMIDITY SENSING ELEMENT** is said to respond to any gas or vapor whose molecules exhibit an electrical dipole moment. Resistance of the element is said to change in the presence of polar molecules according to their concentration and the magnitude of the dipole moment. In air at 25°C resistance ranges from 1000 megohms at 25 percent relative humidity to 1 to 2 megohms at 98 percent relative humidity. According to the manufacturer, response time is rapid, and the element is insensitive to temperature changes from 0° to 100°C . (Conrad Carson, Inc., Dept. Sci99, 3110 Goddard Way, San Diego 1, Calif.)

■ **X-RAY SPECTROMETER** incorporates both a linear rate meter coupled to a recorder and a high-speed printing decade scaler and electronic timer. Noise levels have been reduced to below 1 kv, allowing soft x-rays such as aluminum K to be resolved. System gain stability is said to be better than ± 0.25 percent per day, linearity better than 0.1 percent. The scaler-timer combination can be used to punch paper tape or cards. (Hamner Electronics Co., Dept. Sci87, P.O. Box 531, Princeton, N.J.)

JOSHUA STERN

National Bureau of Standards,
Washington, D.C.

new england nuclear

L-Proline-3, 4-H³
50mc/mM
\$100/mc \$300/5mc

DL-Proline-carboxyl-C¹⁴
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- 1/50 H.P. ball bearing, right angle, gear head, shunt wound, DC motor
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Science

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