New Products

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to the manufacturer. Include the department number in your inquiry.

Integrator (model No. J101B) is an analog accumulator that can be used with instruments that supply full-scale output signals of 1 ma at voltages between 10 and 100 v. The integrator is provided with an input adjustment that accommodates to the input signal source voltage. The results of integration are indicated by a six-digit counter and a 2 1/2-in. meter to interpolate between successive values of the least significant figure of the counter. Accuracy is said to be ±1 percent, and drift less than 0.01 percent per hour. A mechanically preset counter terminates integration and controls auxiliary equipment when the preset value is reached. Integration at full-scale rate may continue for as long as 280 hours for one complete counter cycle, or indefinitely if the counter cycling is recorded. (Elcor Inc., Dept. Sci566, 1225 W. Broad St., Falls Church, Va.)

Surface temperature transducer is a platinum-resistance type measuring 1-9/16 by 9/16 by 0.014 in. thick. A high-temperature cement provided for installation is said to maintain its bond strength beyond 2000°F, the upper limit of the range specified for the transducer. Installation by welding is also possible. Resistance is 100 ohms ±1 percent at 77°F. A response time of milliseconds is said to be achievable. (Winsco Instruments & Controls Co., Dept. Sci547, 11789 W. Pico Blvd., Los Angeles 64, Calif.)

Electrostatic generators provide essentially pure d-c outputs continuously variable to 600 kv at currents up to 4 ma. Model AK600-4 can be switched to provide either medium or high-stability output. Ripple is 0.01 percent; full-load voltage drop never exceeds 500 v; regulation is better than 0.1 percent for 5 percent change in line voltage; output capacitance is 1500 pf. Model AK600-4 holds ripple to ±1 percent; full-load voltage drop is less than 10 kv; regulation is less than 0.5 percent for 5 percent line change; and output capacitance is 500 pf. Electrical requirement for both models is 220/380 volts, 60 cy/sec, three phase. (Sames, Dept. Sci565, 30 Broad St., New York 4)
BACTRONIC COLONY COUNTER

All-Transistor Electronic Colony Counter
Marks as it Counts Automatically
In Open and Closed Petri Dishes

Four precision counting devices make this instrument indispensable for routine colony counting and in phage and bacterial genetics: an Electronic Marking Probe; A Plug-in Marking Grease Pencil or Plug-in Marking Pen; and a Pushbutton Counter.

Colonies are accurately recorded in a single probing action that leaves an identifying puncture in the agar. The Electronic Probe picks up radio impulses on contact with any agar medium and actuates the counting mechanism. Electrical splattering is completely eliminated by the low voltage input. Where puncturing is undesirable, the Plug-in Grease Pencil or Marking Pen is used to mark the back of the plate as it counts.

Plates are flooded with brilliant white light that is cool, soft and easy on the eyes. Specimens are illuminated in bold relief against a contrasting agar background, revealing colony morphology. Even pinpoint colonies are easily discerned.

The instrument has an automatic numerical reset to zero, a sterilizing Probe Well and a magnifying lens.

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BRINKMANN INSTRUMENTS INC., 115 CUTTER MILL ROAD, GREAT NECK, NEW YORK
Breadboarding kit (above) consists of an assortment of prepunched laminated phenolic panels, terminal strips, volume-control strips, snap-in turret terminals, punched chassis frames, end plates, rack-mounting plates, and hardware. Holes are provided for miniature and octal sockets. The chassis frames will fit standard 19-in. racks. (Precision Metal Products Co., Dept. Sci545, 41 Elm St., Stoneham, Mass.)

High-speed stereo motion-picture camera (Stereoflex model A) photographs up to 15,000 three-dimensional pictures per second. A system of mirrors adjusted along a track in front of the camera is tilted to bring the desired image coverage to lenses mounted at right angles to the viewing axis of the camera. Two 16-mm images are recorded side by side on a single strip of 35-mm film. (Benson-Lehner Corp., Dept. Sci567, 1860 Franklin St., Santa Monica, Calif.)

Air dynamometer is designed to test and inspect high-speed motors and turbines. Advantages claimed for the air-brake design include high power relative to size, wider and more variable stepless load range (30:1), higher speeds, and simplicity of operation. The three sizes available have capacities of 12, 35, and 85 hp and maximum speeds of 80,000, 50,000, and 32,000 rev/min. (Hydromill Co., Dept. Sci568, 1707 Cloverfield Blvd., Santa Monica, Calif.)

Piezoelectric accelerometer (model No. AK105) features natural frequency of approximately 50 kcy/sec. The accelerometer is encased in stainless steel, and it operates over a temperature range of −65° to +250°F. Sensitivity is nominally 17 peak mv per peak gram at room temperature. Weight is approximately 8 oz. (Statham Instruments Inc., Dept. Sci569, 12401 W. Olympic Blvd., Los Angeles 64, Calif.)

Torque indicator is a null-balance instrument calibrated especially for use with the manufacturer’s standard torque pickups. Scale of the instrument reads 0 to 100 percent of capacity of any torque pickup with which it is used. Accuracy is said to be ±0.5 percent. The one control knob is a zero set for adjusting the pointer before each run. The instrument indicates average torque even with pulsations up to ±10 percent of full scale. (Baldwin-Lima-Hamilton Corp., Dept. Sci564, 42 Fourth Ave., Waltham 54, Mass.)

Push button-switch pulse generator produces a single square-wave pulse with each operation. Pulse width is factory adjustable from 30 to 500 msec, and amplitude from 6 to 55 volts. Both width and amplitude are independent of the speed of switch operation. Standby power requirement is 6 to 20 ma; ambient temperature range is 0° to 55°C; contact arrangement is single pole, double throw. (Micro Switch Division, Minneapolis-Honeywell Regulator Co., Dept. Sci575, Freeport, Ill.)

JosHA SteRN
National Bureau of Standards, Washington, D.C.