30. Edgerton, Germeshausen & Grier, Inc., Boston, Mass., announces the availability of the LG100 high speed linear gate, one of 20 modules in its M100 high-speed counting system. High-speed gating of linear signals up to 200 Mc in the range of ±1 V with 1% linearity is achieved by the unit, which can be gated at rates up to 75 Mc by standard M100 logic pulses of -700 mV, according to the manufacturer.

31. Nuclear-Chicago, Des Plaines, Ill., announces Model 1002 Actigraph III, a new radiation counting system designed specifically for paper-strip radiochromatography. Innovations claimed are fast plating solutions in gel form has been announced by Technic, Inc., Providence, R.I. The gel form of the new solutions is said to facilitate application and prevent waste. Of high viscosity, the gels prevent dripping and loss and allow wand plating in hard-to-reach areas. The platinum solutions come in two types, one of which will plate directly on titanium, stainless steel, and other difficult-to-plate metals, according to the manufacturer.

32. A heavy-duty 30-A connector, designed to take heavy loads with minimum size and weight, is now available from Masterite Industries, Inglewood, Cal., for use in any circuit using heavy-current solid-state controlled rectifiers. Voltage breakdown is 2300 V root mean square. Stud terminals are gold plated No. 6 screws with 0.400 in. minimum clearance between studs.

33. Introduction of new platinum, palladium, silver, and tin brush-plating solutions in gel form has been announced by Technic, Inc., Providence, R.I. The gel form of the new solutions is said to facilitate application and prevent waste. Of high viscosity, the gels prevent dripping and loss and allow wand plating in hard-to-reach areas. The platinum solutions come in two types, one of which will plate directly on titanium, stainless steel, and other difficult-to-plate metals, according to the manufacturer.

34. A new subminiature, high accuracy pressure transducer has been developed by the American Wiancko Instrumentation Division of Tamar Electronics, Inc., Anaheim, Cal. The new instrument is claimed to be half the size and weight (less than 1 in. diameter, 1 1/2 in. long, 3.5 oz weight) of present transducers designed for similar functions. Linearity over the full pressure range is better than 0.25%, hysteresis is 0.1% or less, over-all accuracy is 1.0% of full scale, and the temperature drift is less than 0.01% of full scale per degree Fahrenheit. The instrument puts out 0 to 5 V proportional to pressure using an input of 28 V dc (7 mA) for which regulation over the range 21-50 V dc is provided. Pressure ranges from 0-2 to 0-10000 lb/in.² are available.

35. New cleaning equipment, developed by Veith Instruments Co., Linden, N.J., combines ultrasonic

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resonance with jet streams to overcome the major drawback to cleaning with ultrasonics alone, viz the inability to wash away separated contaminants. Sonic resonance is imparted to an encompassing area of jet streams of cleaning medium impinging on the item being cleaned. The medium is returned to its reservoir, filtered, and recirculated. Cylindrical chambers eliminate contamination entrapment.

36. A 12-page brochure, available from Digital Equipment Corp., Maynard, Mass., describes a new tape transport and tape control; the DECtape 555 and 552 represent a low-cost in-out data-storage facility and updating service. Special features include fixed-position addressing, automatic word transfers, pre-recorded timing and mark tracks, and pocket-size reels. The brochure gives detailed specifications, diagrams, and programming information.

37. A new rf-shielded cable tray, manufactured by Chalfont Products Co., Cleveland, O., prevents signal distortion and interference. An integrated unit is made from straight sections, fittings, splice plates, and covers, easily assembled to form a protective cable enclosure tight enough to resist moisture. Available in aluminized steel, stainless steel, or galvanized steel and in an 18-in. radius with 6-in. tangents, standard fittings are of three-piece construction with solid bottoms spot welded to side channels at three-inch intervals. Standard cable loading depth is four inches and widths are 12, 18, and 24 in.; other dimensions are available.

38. A brochure, available from Applied Health Physics, Inc., Pittsburgh, Pa., describes the use of ANTI-C barrier coatings and strip coatings to protect surfaces and equipment in cocooning contaminated objects to be removed for decontamination.

39. The Spectronic-600 spectrophotometer, offered by Bausch & Lomb, Rochester, N.Y., is a compact, double-beam, double-grating, ratio-indicating, ultraviolet-visible instrument with a range from 200 m\(\mu\) to 800 m\(\mu\) with selected photomultipliers, designed to accommodate all of the B&L V.O.M. series recorders. Standard bandwidths are 5A and 50A; photometric accuracy is 0.5%, and wavelength accuracy is 5A. Other features include automatic zero adjustment, a built-in combination light source and power supply, three synchronous scanning speeds, and plug-in replacement parts.

40. Liquid density changes as small as 25/10\(^6\) can be measured and controlled continuously with the Densitrol, according to the maker, Precision Thermometer and Instrument Co., Southampton, Pa. Accuracies of 0.02% are claimed for any application where a hydrometer is presently being used. A plummet, supporting part of the weight of an attached chain, is suspended in dynamic equilibrium in a flowing stream of the liquid to be measured. Equilibrium position is a function of liquid density and may be read visually or electrically. The device is applicable to all types of liquids and light slurries of various viscosities.

41. Modules and bins for constructing instrument racks conforming to the standardized design adopted by the AEC Committee on Nuclear Instruments are available from Mega Engineering Company, Mountain View, Cal. The bins fit standard 19-in. racks and are avail-
able in two heights; individual modules are furnished in six sizes for either bin height.

42. A kit of Thermcoat materials for cementing fine-gage thermocouples in place on metal, plastic, and ceramic surfaces is supplied by Omega Engineering, Inc., Springdale, Conn. It contains low-temperature and high-temperature cements and silicone lacquers and an assortment of ceramic insulators and inconel tubing.

43. A function generator (Model 3300A) offered by Hewlett-Packard Co., Palo Alto, Cal., is a compact multipurpose source of test waveforms. It provides two simultaneous outputs that may be any two of three waveforms (sine, square, or triangular) of common frequency (0.01 to 10^6 c/s) and constant amplitude. Frequency is controllable by either a front-panel dial or an external voltage to a rear terminal for controlled sweeps or programmed frequency. It delivers a single cycle on demand, in known phase with an outside signal, or multiple cycle operation with variable start/stop phase. A phase-lock loop permits synchronization to any periodic signal from 10 to 10^5 c/s.

44. A new pulse generator, also offered by Hewlett-Packard, puts out a 10 V flat-topped pulse with a repetition rate of 10^6 c/s and a rise time below 10 ns. Overshoot and pulse type variations of the Model 8000A Pulsar are held below 2%. The flat top is maintained for at least 100 ns, and the fall time is less than 20 ns.

45. A new breadboard module incorporating the digital logic function of A(B + C) + D(E + F) in a single plug-in package has been announced by The Roback Corp., Huntingdon Valley, Pa. The Pulse Gate PG-6236 provides a nominal 1.5 μs positive pulse when any of four input clock lines are triggered with a one level. Two separate gate lines provide an and/or function between the four gate inputs. Four standard loads may be driven. A diagram on the front indicates logical function, and an integral front-panel light indicates logical state of the circuit at a glance.

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