- **Decimal scalar** designed for general radiation counting features seven decades of decimal count storage. The sensitivity of the input amplifier is 25 mv. Resolution is said to be better than 1 μsec. Discriminator and line-frequency test circuits are provided. Start and stop of the count may be controlled by present timer. (Eldorado Electronics, Dept. 886)

- **Thermometers** for measurement of temperature to -57°C are mercury-thallium filled glass types. The mercury-thallium amalgam is said to leave the bore clean. Seven models are available in ranges from -57°C to +100°C and lengths from 9 to 18¾ in. (H. B. Instrument Co., Dept. 887)

- **Optical reading heads** for perforated tape readers are available for up to eight-bit codes. Signal-to-noise ratio is at least 8 to 1 with the paper presently being used for punched paper tape. The unit is designed to minimize the effects of changes in ambient temperature on the output signal and also to minimize the effect of aging of the photodiodes. Reading heads can be built for incorporation into customer-designed equipment. (PAR Products Corp., Dept. 890)

- **Subcarrier oscillators** are voltage-controlled FM oscillators designed for ground-station telephone, radio, or microwave data-transmitting use. Oscillators plug into a transmitter multiplexer with conventional nine-pin connectors. Two miniature tubes are used, mounted externally to dissipate heat. Input is ±2.5 v into 500 kohm. Output is 3 v at 5 kohm from a low-pass output filter. Linearity is ±0.75 percent of bandwidth, and harmonic distortion does not exceed 0.5 percent. (Geotechnical Corp., Dept. 891)

- **Frequency divider and clock** accepts a stable 100 kHz/sec input and provides an essentially jitter-free tick output for comparison with a standard time signal in a time comparator. The instrument has a 3½ in. clock face, including minute and second hands. The minute hand is adjustable in 1-min steps. The second hand is continuously adjustable and has a differential tracking link to the minute hand. (Hewlett-Packard Co., Dept. 892)

- **Surface temperature probe** features a sensor of platinum wire having 500-ohm resistance at 0°C and 1/16-in. Inconel-sheathed lead that can be bent to the desired shape. Temperature limit is 760°C in a standard model; a limit of 1100°C can be provided. (Rosemount Engineering Co., Dept. 893)

**Joshua Stern**
National Bureau of Standards, Washington, D.C.

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