is ±0.5 percent. Response time is 0.1 sec/sec of arc, and warm-up time is eliminated by use of transistor circuitry. Output may be read visually on a calibrated dial, one revolution of which indicates 10 sec of arc, or an electrical signal, proportional to dial rotation, may be obtained from a potentiometer on the dial shaft. When it is operated at 125 V, the potentiometer furnishes output of 800 mv/sec of arc. (Davidson Manufacturing Co., Dept. S744)

- OsciLlograph provides 36 channels of immediately visible photographic recording. Frequency range is from d-c to 3000 cy/sec. Chart paper is 12 in. wide; 8-in. peak-to-peak deflection is permitted in each channel. Traces are identified to permit overlap. Recording speeds range from 0.1 to 160 in./sec. Writing speed is up to 20,000 in./sec. Grid lines and timing lines are recorded optically, simultaneously with galvanometer traces. The daylight-loading paper carrier accommodates 200 ft of chart. (Minneapolis Honeywell, Dept. S745)

- Coordinate converter converts polar-coordinate input to Cartesian-coordinate output. Conversion is achieved by a sine-cosine potentiometer linked to a null-seeking servo. The potentiometer resolves the input into quadrature components according to angular position. Speed of potentiometer positioning is 360 deg/sec. Sensitivity is 0.5 mv/deg. (Mandrel Industries Inc., Dept. S748)

- Oximeter requires blood samples of less than 1 ml. The instrument reading is displayed on a panel meter or may be used to drive a standard recorder directly. Ranges are 0 to 50, 50 to 100, and 0 to 100 percent oxygen saturation. (American Electronic Laboratories, Inc., Dept. S750)

- Static electricity measuring instrument determines static potential on the basis of the ionization of air in the vicinity of the charge, by which a sample of the charge is conducted to the instrument. Range is 0 to 500 kv. Attachments make it possible to measure in inaccessible areas. The instrument is hand-held. (United States Radium Corporation, Dept. S751)

- Autoclave uses a single dial to control the sterilizing cycle, including filling, standby service, sterilizing, and venting. Internal pressure is variable from 7 to 27 lb/in², corresponding to steam temperatures of 230 to 270°F. Safety features include pressure-safe door which cannot be opened until pressure is relieved, low-water cut-off, and relief valve. Dimensions are approximately 24 by 14 by 19 in. Capacity is 1017 in.³ (Wilmot Castle Co., Dept. S752)

- Sample cooler is designed for pressures up to 5000 lb/in² (gage) and temperatures to 1200°F. The heat exchanger is of the shell-and-tubular-coil type. Material is stainless steel, heliaarc-welded. The outer shell is 3½ in. in diameter by 11½ in. long. (Technical Engineered Products Inc., Dept. S754)

- Colorimeter balances automatically to measure color of transparent materials from 400 to 800 ma. Reproducibility of reading is 0.25 percent. Sensitivity is one per million or less. Interference filters are used to select wavelength of illumination. Cylindrical cells 22 mm in diameter or larger, and up to 15 cm long, can be accommodated. Output for a separate millivolt recorder is available. (Mission Instrument Co., Dept. S755)

- Beakers of fluorocarbon resin are chemically inert at temperatures to 500°F, except to molten alkali metals, fluorine, and certain fluoride compounds. They are not affected by aqua regia, hydrofluoric acid, hot caustics, or organic solvents. Capacities are 250, 500, and 1000 ml. (Resistoflex Corporation, Dept. S757)

Joshua Stern
National Bureau of Standards
The Market Place

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