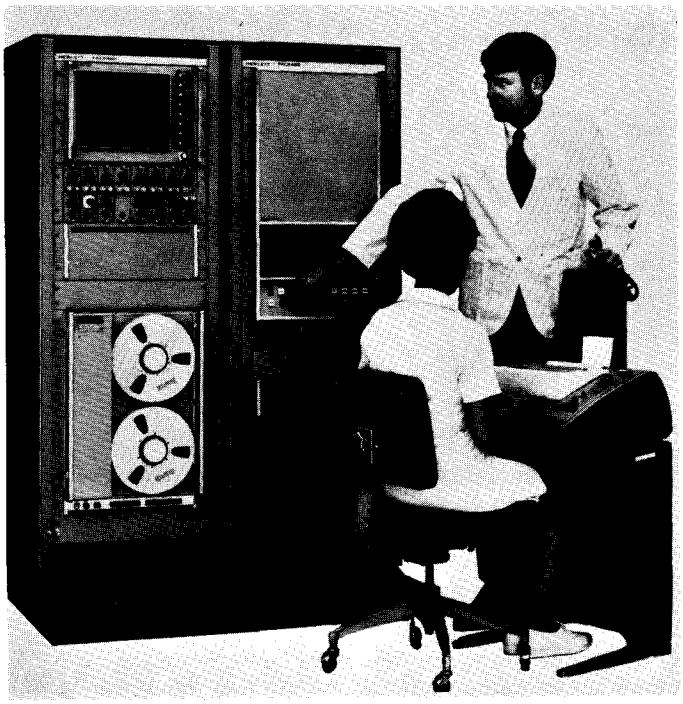


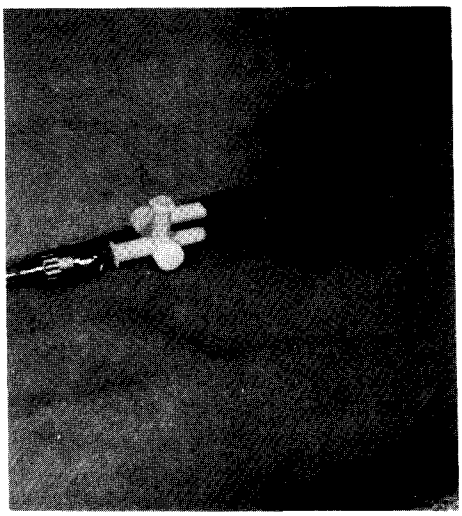
New Product News

The Medical Electronics Division of the Hewlett-Packard Company, 175 Wyman Street, Waltham, Masschusetts 02154, has designed a medical computer data acquisition system for applications in cardiovascular research, bio-medical research and intensive care patient monitoring. These new medical data systems, which use a computer to control measurements and to process data, can display trends, decide when to sound alarms, normalize readings, compute averages and deviations and perform other related functions.

The new software package, MEDACE (Medical Data Acquisition Control Executive), coordinates system functions—input, output, logging, display, program links, subroutine libraries and computation. The user controls the computer either through switch registers and teletypewriter or a marked card reader (IBM-type cards marked with a lead pencil). On-line physiological data, such as EKG, pressures and temperature, is input from a variety of signal conditioners and amplifiers through an analog to digital converter. Off-line information, such as medications or notes, is input through the teletypewriter and marked card reader. Messages, trend plots, printouts, and other outputs are through the teletypewriter or a cathode-ray tube display.

Measurement and data processing programs are written in FORTRAN a computer language that is widely used in the scientific community) and can be executed manually or automatically at scheduled intervals. Constants within programs, such as interval times, alarm limits, sampling rates and branching criteria, can be modified during operation without rewriting programs or reconfiguring the system. Customer support includes two weeks of programming school, systems engineering and integration, and thorough documentation. (Circle No. 11)

The American Instrument Company, 8030 Georgia Avenue, Silver Spring, Maryland 20910, announces the production of a new continuous-flow blood cell separator. Based on a prototype first suggested by Dr. Emil Freireich (formerly with the National institutes of Health but presently Professor of Medicine and Chief of Research Hematology at the University of Texas), the instrument, a centrifuge, separates whole blood into its component red cells, white cells, plasma or platelet-rich plasma. Separation is based on density differences of the components with continuous separation accomplished in a polycarbonate bowl assembly where each fraction is removed by a series of peristaltic pumps which move the whole blood, anticoagulent, separated blood components and lubricating saline through a closed system of tubing. (Circle No. 12)



The SENSOTEC Division of Comtel Corporation, 1400 Holly Avenue, Columbus, Ohio 43212, announces its new BP-23 transducer for monitoring blood pressures, a bonded strain gage transducer with a flush diaphragm contained in a small plastic dome designed to attach to standard stop cock fittings. Since it attaches directly at the puncture point of the vessel, long fluid columns and sputious signals caused by patient movement are prevented. The transducer contains a four-arm wheatstone bridge circuit so it can be connected directly to any type of standard strain gage readout instrument. (Circle No. 13)