

New products

Instruments

Fairchild's into bench testers

Transistor checker with 96-word memory handles up to 62 tests per second

Fairchild Systems Technology is taking three skips and a jump into the IC and transistor tester business, benchtop division. To skip

much design and development work, the firm is buying three types of testers from Microdyne Instruments of Waltham, Mass., and selling them with Fairchild labels. The 301 and 321 both test linear and digital integrated circuits, with the 321 able to run automatically. The 335 is for linear ICs.

For the transistor checker, Fairchild opted to jump in and design and develop the instrument itself. The result is PATT (programmable automatic transistor tester). It's a go/no-go unit that checks leakage current, breakdown voltage, dc gain, saturation voltage, and base turn-on voltage. Able to run 62 tests per second, PATT can deliver

10 amperes of collector current and 600 volts for breakdown tests.

The most important feature, states William Root, director of engineering, is the "simple-minded computer" which can be programmed to run a sequence of up to 96 tests. This allows one program to perform several classification routines.

Root's "computer" is an MOS memory and some digital control circuitry. With a 10-word memory (56 bits per word), PATT sells for \$12,900. Larger memories are available, with the 96-word PATT selling for \$20,000.

With its high test rate, the instrument can be multiplexed, simultaneously running tests at up to



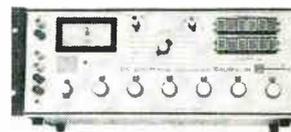
Keyboard test set checks logic output of encoded keyboards by plugging them into the set. Proper voltages are given with no external supply or circuitry needed. Code is selected by panel switch, and bit 8 is enabled if parity checking is desired. Maxi-Switch Co., 3121 Washington Ave., North, Minneapolis, Minn. [361]



Digital volt-ohm-milliammeter model 460 combines high accuracy, multiple range testing with non-blinking digital numeric display and front panel analog meter readout in a portable instrument. Twenty-six switch-selectable ranges are available. Price is \$395. Simpson Electric Co., 5200 W. Kinzie St., Chicago, Ill. [362]



Function generator model 5000 provides sine, square and triangular waveforms over frequency range of 0.2 kHz to 3 MHz. Maximum output for all functions is 20 v peak-to-peak with an additional 5 v peak-to-peak square wave output available. Price is \$295. Krohn-Hite Corp., 580 Mass. Ave., Cambridge, Mass. [363]



Differential voltmeter/calibrator model 2901 has chopper design with feedback from wire-wound resistors in output selection circuits. This means constant input/output impedances independent of output setting. Price is \$1,350. Electronic Development Corp., 11 Hamlin St., Boston, Mass. 02127 [364]



Digital test oscillator model 101A fills most sine wave source requirements from 10 Hz to 12 MHz. Unit has amplitude and frequency modulation, BCD remote programming over wide range. Price is \$495 for basic model and \$580 for programmable model. Progress Electronics Co., 5160 N. Lagoon Ave., Portland, Ore. [365]



Tension monitor model M-100 measures dynamic tape tension between drive capstan and two tape packs within digital and audio cassette decks. Monitor uses special cassette, instrumented internally with a strain gage containing 150 ft of tape. Information Terminals Inc., Terra Bella Ave., Mt. View, Calif. [366]



Digital thermocouple thermometer replaces analog horizontal, vertical scale indicators. Device offers automatic zero correction circuitry and differential inputs which allow use with grounded or ungrounded thermocouples, without loss of noise rejection. Doric Scientific Corp., 7601 Convoy Ct., San Diego, Calif. [367]



Displacement measuring system acts as ratiometer, providing system accuracy to $\pm 0.1\%$ + one digit. Other types of dc-dc linear variable differential transformers with displacement ranges of ± 0.02 ft to ± 5.0 ft are available. Price starts at \$510. Pickering and Co., 101 Sunnyside Blvd., Plainview, N.Y. [368]