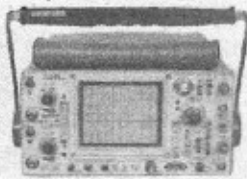


TEST EQUIPMENT

TEST EQUIPMENT

TEK OSCILLOSCOPES

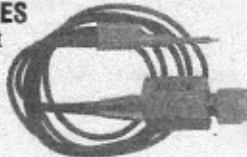


- Tek, #465. 100 MHz
- Tek, #465B.
- Tek, #466.
- Tek, #475. 200 MHz. Dual Trace
- Tek, #485. 350 MHz. Dual Trace

(PROBE NOT INCLUDED)

TEKTRONIX PROBES

These are standard test probes that are used with oscilloscopes and other test equipment. We have the following list of probes available.



These are used, but in excellent condition. Tektronix numbers are listed below. Our stock numbers correspond to the TEK part numbers (eg. TEK, #P6006 is our #P6006, etc.)

- Stock #P6006
- Stock #P6008
- Stock #P6009
- Stock #P6028
- Stock #P6053
- Stock #P6058
- Stock #P6062B
- Stock #P6063B
- Stock #P6106

(OTHER PROBE NUMBERS AVAILABLE - PLEASE CALL)

VOM-MULTI-TESTER

SONTEC, #HM-102-S. Well made versatile hand held test meter with tilt stand/carrying handle. Measures AC and DC voltages as well as DC mA and ohms. Scale has mirror to reduce parallax reading errors. DC sensitivity is 20,000 ohms/volt with accuracy of $\pm 3\%$ full scale. AC sensitivity 8,000 ohms/volt. Accuracy is $\pm 5\%$ full scale. DC current accuracy $\pm 3\%$ of full scale. Ohms ranges have accuracy of $\pm 3\%$ of arc. DC measurements arranged in 6 ranges covering 0 to 500 VDC. Additional jack for measurements up to 5000 VDC. AC measurements have 5 ranges covering 0 to 500 VAC with separate jack for measurements up to 1000 VAC. DC current measurement is in 5 ranges with span of 0 to 500 mA. Ohmic measurements are made in 4 ranges and cover 0 to 20 megohms. Also measures audio levels over a span of -20 dB to 56 dB in five ranges. (0dB:1 mW @ 600 ohms). Protection circuitry built into the meter protects from overloads and damage. Approx. 3-1/2" red and black insulated test leads. Comprehensive instruction manual provided. Requires two AA batteries and a single 9 volt battery for operation which are not supplied. Dimensions: 3-1/2" wide x 5-1/2" high x 1-1/2" thick



Stock #TE2050

TEKTRONIX 200 MHz MODULAR OSCILLOSCOPE MAINFRAME

TEKTRONIX, Model #7704A. Modular mainframe. Accept all 7000 Series plug-ins. Price does not include plug-ins which are listed separately. Basic specifications: DC to 200 MHz bandwidth. 1.8 NS risetime. 2 NS/Div fastest calibrated sweep rate. Has CRT readout. P31 phosphor. Accepts two vertical plug-ins on left side and two horizontal/sweep plug-ins on the right. Chopped mode allows chopping between horizontal plug-ins. Rate is internally selectable between 20 KHz and 200 KHz. CRT has illuminated internal graticule. This unit has many useful features such as autofocus, beamfinder, external Z input, sawtooth out, gate derived from waveform, vert signal out, camera and probe power, cal signal. Input voltage 90 to 132 VAC and 180 to 264 VAC. 48 to 440 Hz max. Power consumption 180 watts 2.5 amps at 115 VAC 60 Hz. Dimen.: 12" wide x 13.6" high x 22.7" deep. Weight 30 lbs.

Stock #OS9500

\$250.00

PLUG-INS:

- 7A11 Amplifier 250 MGH
- 7A12 Dual Trace Amplifier
- 7A13 Differential Comparator
- 7A15A Amplifier 80 MGH
- 7A16A Amplifier 225 MGH.
- 7A18 Dual Trace 75 MGH
- 7A19 Amplifier
- 7A22 Differential Amplifier
- 7A24 Dual Trace 400 MGH
- 7A26 Dual Trace 200MGH
- 7B50A Dual Time Base
- 7B53A Dual Time Base
- 7B71 Delay Time Base
- 7B80 Delay Time Base
- 7B85 Delay Time Base 400 MGH
- 7B92A Delay Dual Time Base 500 MGH
- 7D01 Logic Analyzer w/DFI Display for Matter
- 7D01 Logic Analyzer
- 7D02 Logic Analyzer
- 7D11 Digital Delay
- 7D12 A/D Converter
- 7D13 Digital Multimeter
- 7D15 Universal Counter/Timer
- 7D20 Programmable Digitizer

- FG502 Function Generator
- 7M13 Readout Unit
- 7S11 Sampling Unit
- 7S12 TDR Sampler
- 7T11 Sampling Sweep Unit
- AM503 Current Probe Amplifier
- DC503A Universal Counter Timer
- DM501A Digital Multimeter
- DM501 Digital Multimeter
- DM5010 Programmable Digital Multimeter
- FG5010 Programmable 20MHz Function Generator
- FG503 Function Generator
- FG504 40 MHz Function Generator
- PG501 Pulse Generator
- PG508 50 MHz Pulse Generator
- PS503A Dual Power Supply
- PS5010 Programmable Triple Power Supply
- SC504 80 MHz Oscilloscope
- SG503 Leveling Sine Wave Generator
- TM501 Power Module One-Wide
- TM503 Power Module Three-Wide
- TM504 Power Module Four-Wide
- TM506 Power Module Four-Wide
- TM5006 Power Module Mainframe Six-Wide

NOTE: WE HAVE A LARGE ASSORTMENT OF PLUG-INS FOR THE 5000 SERIES

SCOPE MAINFRAMES:

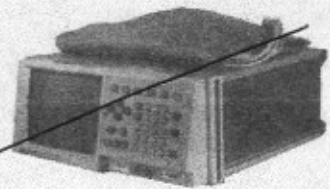
- 7603 100 MHz Oscilloscope
- 7633 Multimode Storage
- 7704A 250 MHz Oscilloscope
- 7904 500 MHz Oscilloscope

- T922R 15 MHz Rack Mount Dual Trace
- 7834 Fast Storage
- 7623 Multimode Storage

(Call for availability of additional models)

LOGIC ANALYZERS HEWLETT-PACKARD, 1630 series.

We can supply two different models of this logic analyzer as listed below. The two models differ in the arrangement of the number of state and timing channels. The units share the following common characteristics. State analysis is 25 MHz for tracing program and software flow of microprocessor systems. Timing analysis at 100 MHz for checking hardware and status signals. Resolution is 10 ns. Many flexible triggering modes are provided for ease of use. The unit has two cursors with automatic readings for interval measurements. The units have HP-IB and HP-IL interfaces. The logic connecting pods are included. These units are used and are in excellent condition. Dimensions: 17" wide x 17" deep x 9" high.



MODEL 1630D This model can be configured to have the following combination of state and timing channels. 43 state with 16 timing, or 35 state and 8 timing, or 27 state and 16 timing.

Stock #TE2051

MODEL 1630G This model can be configured to have the following combination of state and timing channels. 65 state with no timing, or 8 timing with no state, or 57 state and 8 timing.

Stock #TE2052

TEST EQUIPMENT

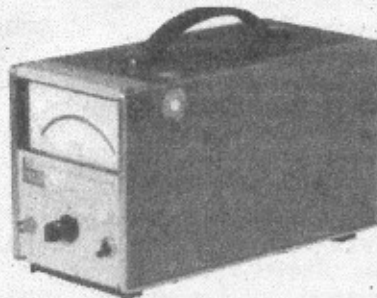
HEWLETT PACKARD

- #141T. Spectrum Analyzer. Mainframe.
- #200CD. Audio Oscillator. 5 Hz to 600 kHz in 5 bands. Calib. accuracy $\pm 2\%$. Output to 600 ohms, 160 MW (10 V). Output imp.: 600 ohms, max. distortion 0.5% below 500 kHz, 1% 500kHz and above.
- #214A. Pulse Generator. 200 watts (Calib.).
- #216A. Pulse Generator.
- #331A. Distortion Analyzer. 5 Hz to 600 Hz. Measures down to 0.1 full scale distortion.
- #332A. Distortion Analyzer.
- #333A. Distortion Analyzer.
- #334A. Distortion Analyzer.
- #400EL. AC Voltmeter.
- #403B. AC Voltmeter.
- #432A. Power Meter.
- #432B. Power Meter.
- #615B. Test Oscillator.
- #3205A. FM Signal Generator.
- #3310B. Function Generator.
- #3312A. Function Generator.
- #3400A. RMS Voltmeter.
- #3420B. Differential Voltmeter/Ratiometer.
- #3465A. Digital Multimeter.
- #3480A. Digital Voltmeter with #3484A Plug-in.
- #3490A. Multimeter.
- #4204A. Oscillator. 16 Hz - 1 MHz.
- #5253B. Frequency Converter. 50-500 megacycle.
- #5328A. Universal Counter.

- #7035B. X-Y Recorder.
- #8057. Noise Generator.
- #8405A. Vector Voltmeter.
- #8410A. Network Analyzer.
- #8413A. Phase-Gain Plug-in.
- #8414A. Polar Display.
- #8418A. Auxillary Display.
- #8445B. Automatic Preselector.
- #8552A. Spectrum Analyzer IF Plug-in, Linear or 10 dB/Div.Log.
- #8552B. Spectrum Analyzer. (Later model of the above).
- #8553B. Spectrum Analyzer RF Plug-in. 1 kHz - 110 MHz.
- #8554B. Spectrum Analyzer RF Plug-in.
- #8555A. Spectrum Analyzer RF Plug-in.
- #8556A. Spectrum Analyzer Plug-in. 20-300 kHz.
- #8614A. Signal Generator. 0.8-2.4 GC.
- #8616A. VHF Signal Generator. 1.8-4.5 GC.
- #8620A. Sweep Oscillator with #86250B Plug-in.
- #8740A. Transmission Test Unit.
- #8741A. Reflection Test Unit. 0.1-2.0 GHz.
- #8742A. Reflection Test Unit. 2.0-12.4 GHz.
- #8743A. Reflection Transmission Test Unit.
- #8745A. S-Parameter. 0.1-2 GHz.

TRUE RMS VOLTMETER HEWLETT PACKARD, Model 3400A. Measures true rms values of AC input signals by indicating the proportional DC heating value of the input waveform. Voltage range 1 mV to 300 volts in 12 ranges. Frequency range 10 Hz to 10 MHz. Meter accuracy $\pm 1\%$ to $\pm 5\%$ depending on frequency. AC-DC converter accuracy $\pm 0.75\%$ to $\pm 5\%$ depending on frequency. Input power 115-230 VAC 48-66 Hz 15 VA max. Dimen.: 5-1/4" wide x 11-3/4" deep x 7-1/2" high.

Stock #TE9813



INVERTERS

100 WATT CALIFORNIA INSTRUMENTS, #751T with plug-in #855T. Fixed 400 Hz, 0-130 VAC.
Stock #IV2200 **\$425.00**

200 WATT ELGAR, #200 with plug-in #441-01. Input: 115 VAC 60 Hz. Output: 0-135. Fixed 400 Hz. Single Phase.
Stock #IV2501 **\$525.00**

500 WATT ELGAR, #501B with plug-in #441-01. Fixed 400 Hz. 500 watt. 0-135 VAC.
Stock #IV2001 **\$650.00**

750 WATT CALIFORNIA INSTRUMENT, #751TC with fixed 400 Hz plug-in oscillator #855T.
Stock #IV2051 **\$895.00**

EST. 1000 WATT ELGAR, #1000B-140. Input: 230 3-phase 60 Hz. Output: 0-70 VAC 3-phase, 45 to 10 KHz.
Stock #IV2502 **\$1,350.00**

1500 WATT CALIF. INSTRUMENT, #1501 "H". Input: 220 VAC Single phase 50/60 Hz. Output: 0-240 VAC single phase 40-2000 Hz.
Stock #IV2402 **\$1,250.00**

2000 WATT CALIFORNIA INSTRUMENTS, #503T with plug-in #855T. Input: 100-125. Single phase. 2000 watt max. Output: 0-30 VDC. 45-5000 Hz. 500 watt 3-phase.
Stock #IV2500 **\$1,750.00**

3000 WATT TWO (2) ELGAR, #1501 hooked together for 3000 watts. Input: 220 VAC single phase. Output: 0-150 VAC. Plug-in #403-V. 45-5000 Hz.
Stock #IV2401 **\$2,250.00**

5000 WATT UNITRON, #CRO74.3. Input: 230 3 phase WYE 50/60 Hz. Output: 0-120 3 phase WYE 400 Hz. Weight 245 lbs.
Stock #IV2404 **\$2,500.00**

6000 WATT BEHLMAN, #3-200 ASH. Input: 400 VAC 3 phase 47-72 Hz. Output: 320-500 Hz 0-135 VAC. Weight 300 lbs.
Stock #IV2400 **\$1,995.00**

TEST EQUIPMENT

WHICH IS CALIBRATED

TO THE NATIONAL BUREAU OF STANDARDS