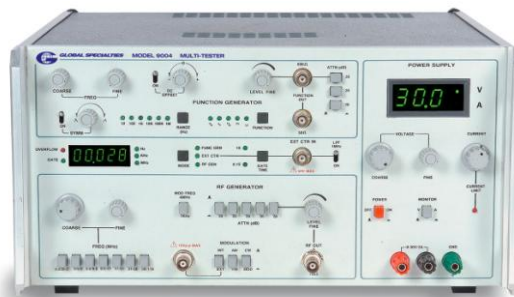


# Test Equipment

## Four-in-One Multi-Tester

### Model 9004 4 Instrument Test Station



#### Features:

- Unique combination of RF Generator, Function Generator, Frequency Counter & Power Supply
- Independent yet simple operation
- Excellent educational tool & service gear for the Engineer
- Logic Switch Operation is fast & easy
- 100 KHz to 110 MHz RF Generator
- 100 MHz, High Sensitivity Counter with 5 Digit Display
- 1 Hz to 1 MHz Function Generator
- Variable 32 V, 2A DC Power Supply with Adjustable Voltage and Current Limit
- Digital Readout for Voltage and Current
- 3-year Warranty

The 9004 combines some most needed Test Equipment in a very special way. It effectively gives you a 1 Hz to 110 MHz generator & a 60W Power Supply to power your test circuits. The professional will find it covers a broad spectrum of his test needs & the schools will see plenty of experiments with it. A very wide variety of experiments in Analog, Digital & RF can be performed with just this unit.

The unit is great for service or Test bench & also simple enough for a school lab. The touch of a button can select the 5 digit counter to accurately measure the Function Generator frequency, the RF Generator Freq or an External i/p signal. All functions are kept completely independent for FULL Functionality & there is no clutter of switches & knobs.

The RF Generator covers a frequency range all the way up to the commercial FM band. It also has fixed internal AM & FM modulation and also the facility of External modulation.

The Function Generator features Unipolar Square/Pulse outputs to directly interface to digital circuits, in addition to the standard Sine, Triangle, and Square. There are 2 Outputs-50 Ohm & 600 Ohm to match audio impedances.



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# Test Equipment

## Four-in-One Multi-Tester

### Specifications

Model	9004
<b>RF SIGNAL GENERATOR</b>	
<b>CM Signal</b>	100 MHz to 110 MHz in 7 ranges & continuously variable over the whole range with a coarse and fine control
<b>Modulation Frequency</b>	a) Internal Modulation 30% b) External Modulation: Freq. Range 50Hz to 4kHz bandwidth $\pm 3$ dB
<b>Output Amplitude</b>	200mV p-p at 75ohms
<b>Attenuation</b>	2 x 20 dB step and continuously variable 20 dB (approx.)
<b>FM Signal</b>	30 MHz to 110 MHz
<b>Modulation Frequency</b>	Selectable 400 Hz/1kHz
<b>Frequency Modulation</b>	a) Internal 30kHz (approx.) b) External Modulation: Freq. Range 50Hz to 4kHz bandwidth $\pm 3$ dB
<b>FREQUENCY COUNTER</b>	
<b>Readout</b>	5 digit, 0.3 LED Display
<b>Frequency Range</b>	10Hz to 100MHz
<b>Range Selection</b>	Hz/KHz/MHz selection is automatic depending on mode selected
<b>Source Selection</b>	Internal AM/FM/Internal Function/External Frequency/Logic Selected
<b>Annunciation</b>	GATE, OVERFLOW, Hz, KHz, MHz, INT, AM/FM, FUNCTION, EXT FREQUENCY
<b>Gate Period</b>	0.1 sec & 1 sec by LED indication for ext. counter mode
<b>Sensitivity</b>	50mV
<b>Dynamic Range</b>	50mV to 1V rms
<b>FUNCTION GENERATOR</b>	
<b>Frequency</b>	1 Hz to 1 MHz
<b>Waveform</b>	Sine, Square, Triangular, +pulse, -pulse, Ramp
<b>Amplitude</b>	30V p-p at 600 ohms & 50 ohms terminal (open circuit)
<b>Attenuation</b>	2 x 20 dB step & 20dB continuously variable
<b>Output Impedance</b>	600 ohms, 50 ohms
<b>DC Offset</b>	0 to $\pm 15$ V max. (open circuit)
<b>Sinewave Distortion</b>	(Pulse Duty) <3%
<b>Cycle</b>	10% to 90% variable
<b>Symmetry on/off</b>	In off mode 50% duty cycle
<b>POWER SUPPLY</b>	
<b>Reg. DC Power Supply</b>	0 to 32V/2 Amp independent ON/OFF switchable
<b>Display</b>	3 digit, 0.5 LED Display for voltage or current switchable
<b>Voltage</b>	Coarse & Fine control
<b>Current</b>	0 to 2 Amp
<b>Load Regulation</b>	0.1%
<b>Ripple</b>	<5 mV
<b>Current Limit</b>	Desired current setting
<b>Current Limit LED</b>	Indicates when current limit is reached
<b>GENERAL</b>	
<b>Power</b>	115V/230V AC switchable $\pm 10\%$ , 47-65Hz, 125VA (max)
<b>Dimensions</b>	360 (W) x 190 (H) x 375 D mm
<b>Weight</b>	27lbs. approx.
<b>ACCESSORIES</b>	1. BNC to BNC Cable 2. BNC to Alligator Clip 3. Instruction Manual

Technical data subject to change without notice.



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