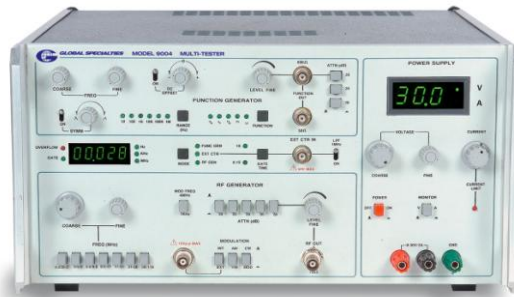


Test Equipment

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.



Innovative Training Solutions

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Test Equipment

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Specifications

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

Technical data subject to change without notice.

