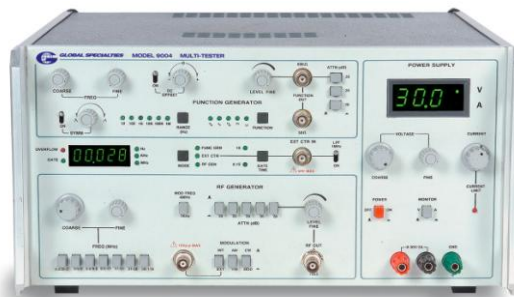


Test Equipment

Four-in-One Multi-Tester

Model 9004 4 Instrument Test Station



- The Model 9004 is great for service or Test bench & also for school labs.
- 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.

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.

Test Equipment

Four-in-One Multi-Tester

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 ± 3 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 ± 3 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 ± 15 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 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.

