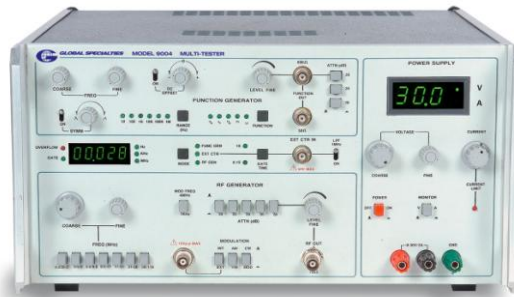


# Test Equipment

## 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> |  |
| 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%<br>b) External Modulation: Freq. Range 50Hz to 4kHz bandwidth $\pm 3$ 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.)<br>b) External Modulation: Freq. Range 50Hz to 4kHz bandwidth $\pm 3$ dB       |
| <b>FREQUENCY COUNTER</b>   |  |
| 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   |
| <b>FUNCTION GENERATOR</b>  |  |
| 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 $\pm 15$ V max. (open circuit)  |
| Sinewave Distortion        | (Pulse Duty) <3%   |
| Cycle                      | 10% to 90% variable  |
| Symmetry on/off            | In off mode 50% duty cycle   |
| <b>POWER SUPPLY</b>        |  |
| 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  |
| <b>GENERAL</b>             |  |
| 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<br>2. BNC to Alligator Clip<br>3. Instruction Manual                                   |

Technical data subject to change without notice.



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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