

AC Millivoltmeter (3MHz)



Features

- ★ Wide Freq. Range : From 20Hz to 3MHz
- ★ High Sensitivity 1mV FSD
- ★ Wide Voltage Range from 1mV to 300V Full Scale
- ★ Internal Calibrating Signal Facility
- ★ Built-in Amplifier can be used Separately
- ★ Protected Against Overloads
- ★ Independent of Mains Voltage Variation

Description

APLAB's AC Millivoltmeter Model 5002 is ruggedly built precision instruments for measuring voltages from 1mV to 300V.

The Millivoltmeter is simple to operate & is mainly used for measurements in accoustics & ultrasonic fields, electrical measurements of mechanical vibration & measurements on carrier telephone installation. It is also used as a dB meter for investigation of network characteristics, source of noise, erratic operation in high gain amplifiers and other applications when high gain & calibration accuracy is required.

AC Millivoltmeter can also be used as an amplifier upto 150KHz with 42dB gain at 1mV.

Specifications

Frequency Range	: 1mV to 300V Full Scale in 12 ranges in 1-3-10 sequence.
Bandwidth	: 20Hz to 3MHz.
dB Range	: -60dB to +50dB in 10dB steps.
Input Impedance	: 10M ohm // 40pF nominal.
Calibration	: Reads rms value of sine wave : Voltage indication proportional to average value of applied signal. Linear Voltage Scales : 0 to 3V, 0 to 10V. dB Scale : -20 to +2dB (0dBm = 1mW in 600 ohms).

Meter Accuracy	: ±3% of FSD at 10KHz.
Frequency Response	: 1mV to 30mV Ranges : ±0.3dB for 30Hz to 1MHz ±0.5dB for 20Hz to 30Hz & 1MHz to 3MHz. 100mV to 3V Ranges : ±0.5dB for 30Hz to 500KHz. ±1.0dB for 20Hz to 30Hz & 500KHz to 3MHz. 10V & above Ranges : ±0.5dB upto 100KHz.
Calibration Signal	: Built-in 1V cal signal available on panel of ±1% accuracy.

CHARACTERISTICS AS AN AMPLIFIER

Gain	: Approx. 40dB on 1mV range .
Frequency Range	: Useful gain from 10Hz to 150KHz between ± 1 dB.
Distortion	: <5%.
Output Impedance	: 2.2K ohms approx.

GENERAL

Power	: 230V AC $\pm 10\%$, 47-53Hz. Optional 115V AC $\pm 10\%$, 57-63Hz.
Dimensions	: 210 (W) x 140 (H) x 235 (D) mm approx.
Weight	: 2.5 Kg. approx.
Standard Accessories	: Instruction Manual - 1 No. BNC(M) to BNC(M) Cable - 1 No. BNC(M) to Alligator Clip - 1 No. Mains Cord - 1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

Aplab Test & Measurement Instruments

APLAB LIMITED

APLAB HOUSE, A-5, WAGLE ESTATE, THANE 400 604. INDIA. TEL : 25821861 FAX : 91-022-2582 3137
EMAIL : tmsales@aplab.com WEBSITE : www.aplab.com

- **BANGALORE** Tel. : 080-23576001 to 07 Fax : 23576008 E-mail : aplabblr@aplab.com
- **CHENNAI** Tel. : 044-26680472, 26680477 Fax : 26680473 Email : aplabchn@aplab.com
- **KOLKATA** Tel. : 033-22455435, 22848834 Fax : 22454294 Email : aplabcal@aplab.com
- **MUMBAI** Tel. : 022-29201787, 29204642, 29203468 Fax : 29209066 Email : aplabwr@aplab.com
- **NEW DELHI** Tel. : 011-23515183/86, 23627467 Fax : 23634709 Email : aplabnd@aplab.com
- **SECUNDERABAD** Tel. : 040-27811012, 27843351, 27720339 Fax : 27897788 Email : aplabsec@aplab.com