

VIDEO 2 CHANNEL AC MILLIVOLTMETER

Highly-Accurate Measurements for Voltages



LMV-186A 2 CHANNEL AC MILLIVOLTMETER

GENERAL

The LMV-186A have concentric dual channel meter movement with separate needles on the analog display and a channel reverse switch. For stereo audio, the LMV-186A is very apt for measuring record and playback levels, channel separation, balance and tracking tests of volume, loudness and tone controls versus frequency, etc.

FEATURES

- LMV-186A consists of two high sensitivity voltmeters housed in one cabinet. A single meter with two independent pointer movements is used in the measurements.
- Voltages can be measured at the same time at tow different points in the test circuit or for two separated loads. Switching is provided for measurement or comparison where voltages are within 10 dB, such as in stereo circuits.
- Identical voltage ranging and amplifiers systems are used in each channel which operate without crosstalk. Decibel scales are provided over the full voltage range, at 0 dB=1 Vrms and 0.775 Vrms, which are useful in data plotting and comparison of levels.
- The meter scale calibration is in terms of the effective value of a sine wave.
- Both voltmeters may also be used as a high gain AC amplifier.

SPECIFICATIONS

Voltmeter

Measuring Voltage range:	100 μ V to 300 V
Measuring range:	Voltage range:12 ranges 1, 3, 10,30, 100, 300 mV
Input Impedance:	1, 3, 10, 30, 100, 300 V Decibel range: 12 ranges -60, -50, -40, -30, -20, -10 dB 0, +10, +20, +30, +40, +50 dB (0 dBV=1 V, 0 dBm=0.775 V)
Measuring accuracy:	± 2 % of full scale (ar 1 kHz or 400 Hz)
Frequency characteristics:	5 Hz to 500 kHz ± 10 % 10 Hz to 200 kHz ± 5 % 20 Hz to 100 kHz ± 3 % (1 kHz ref.)
Input resistance:	10 M Ω
Input capacitance:	45 pF or less(1 mV to 300 mV range) 25 pF or less(1 V to 300 V range)
Maximum input voltage:	AC peak+DC=60 V(1 mV to 300 mV range) AC peak+DC=600 V(1 V to 300 V range)
Circuit ground:	FLOAT/Ground through the resistor, selectable

Amplifier

Output Voltage:	1 Vrms into open circuit
Frequency characteristics:	10 Hz to 200 kHz -3 dB(1 kHz ref.)
Output impedance:	600 Ω ± 20 %

Environmental Conditions

Operating Temperature:	0 to 40 $^{\circ}$ C
Operating Humidity:	≤ 85 % RH (without condensation)
Operating Environment:	Indoor use
Operating Altitude:	Up to 2,000 m
Overvoltage Category:	II
Pollution Degree:	2

Power Requirements

100 V ± 10 %, 50/60 Hz, 5 VA
(can be changed to 117 V, 220 V, 240 V by VOLTAGE SELECT plug.)

Dimensions

150 (W) \times 200 (H) \times 250 (D) mm
(exclusive of knobs, rubber feet and handle)

Weight

3.5 kg

Accessories

Connection cord (pair-plug to clip cable).....	2
Power cord	1
Instruction manual	1