

LEADER**LEADER ELECTRONICS CORP.**
YOKOHAMA JAPAN*Precision Measurement for
Audio and RF**Reliable • Accurate • Versatile*

LMV-182A AC MILLIVOLTMETER

*Wide-band, high-precision measurement of AC voltages
from 0.3 mV to 100 V*

Designed for the laboratory and service bench

The Leader LMV-182A is a precision AC millivoltmeter / RMS voltmeter with a wide frequency response, high accuracy and a useful output facility. It is ideal for audio, IF and general RF measurements where low-level AC signals must be measured accurately and reliably.

Key Features

- Wide frequency range: 5 Hz – 1 MHz
- AC voltage range: 0.3 mV – 100 V (full scale)
- dB ranges: –70 to +40 dB (0 dB = 1 V and 0 dB = 0.775 V)
- Accuracy: $\pm 2\%$ of full scale
- High input impedance ($\geq 10\text{ M}\Omega$ on low ranges)
- Low input capacitance (<35 pF on higher ranges)
- Built-in 1 Vrms output at full scale (600 Ω)
- Compact, rugged and portable design
- Useful for audio, test and general-purpose RF work

*A practical instrument for
precise AC voltage measurement*

SPECIFICATIONS

Model	LMV-182A
Type	AC Millivoltmeter / RMS Voltmeter
Manufacturer	Leader Electronics Corp. Yokohama, Japan
Serial Number (this unit)	0100130
AC Voltage Range	0.3 mV – 100 V (full scale)
Frequency Range	5 Hz – 1 MHz
dB Ranges	–70 to +40 dB
dB Reference	0 dB = 1 V 0 dB = 0.775 V
Accuracy	$\pm 2\%$ of full scale
Input Resistance	$\geq 10\text{ M}\Omega$ (low ranges) (higher ranges $\geq 10\text{ M}\Omega$ typical)
Input Capacitance	<35 pF (higher ranges)
Maximum Input	600 V AC peak + DC
Amplifier Output	1 Vrms at full-scale indication
Output Impedance	$\approx 600\text{ }\Omega$
Distortion	<1% at full scale, 1 kHz (except 300 μV range)
Operating Temperature	0 – 40 °C
Humidity	<85% RH
Supply	100 V $\pm 10\%$, 50/60 Hz (internally selectable 120/200/240 V)
Consumption	25 VA
Dimensions (W x H x D)	132 x 150 x 250 mm
Weight	$\approx 2\text{ kg}$

FRONT PANEL VIEW

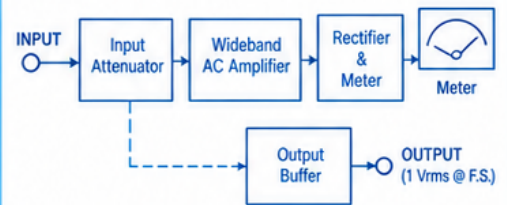


REAR PANEL VIEW

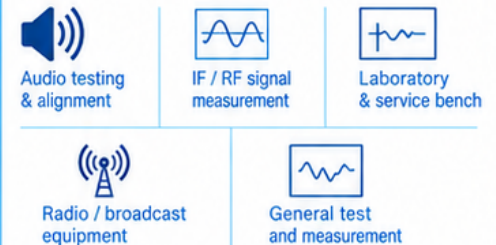


Rear panel shows mains inlet, fuse holder, voltage selector, input and output terminals and rating plate (serial no. 0100130).

BLOCK DIAGRAM (Simplified)



TYPICAL APPLICATIONS



About Leader Electronics Corp.

Leader Electronics Corp., based in Yokohama, Japan, has been a trusted manufacturer of precision test instruments for many years. The LMV-182A is part of their range of audio and measuring instruments, designed for reliability, accuracy and long service life.

Leader Instruments

*— Quality You Can Trust***LEADER****LEADER ELECTRONICS CORP.**
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