

50 kV AC/DC Kilovoltmeter

Model KVM50E



Testing Applications

- Use for calibrations and voltage monitoring of high voltage systems
- Suitable as a working standard per IEC 60060 and IEEE STD4
- Traceable calibration to NIST, USA
- Voltage divider can also be used with other measuring devices such as an oscilloscope.



- **Precision accuracy** and lasting **reliability**
- **Compact** unit for **field** or **laboratory use**
- **Battery** or **line powered**



Design Features

- Units include a high voltage divider, metering section, and interconnect cables
- Input Charge and AC line indicator lamps
- 20-35 hour battery life
- 5 ½ digit LED display with adjustable backlight
- Driver and Window USER software
- Data Logging, internal storage of 500 measurements, 1-9999 sec
- Interface: USB, RS232, LAN/LXI, GPIB/IEEE 488



Specifications are subject to change without notice.

Brochure No. 901600

Voltage Measurement Functions

RMS	True RMS value						
DC	DC						
DC RMS RIPPLE	RMS value of ripple voltage on DC						
Accuracy	0.8% of reading with a 95% confidence interval from 1-100% of range						
Frequency Response (Sinusoidal Waveform)	<table border="1"> <tr> <td>RMS</td> <td>45-400 Hz</td> </tr> <tr> <td>RMS RIPPLE</td> <td></td> </tr> <tr> <td>AVERAGE</td> <td>DC, 45-400 Hz</td> </tr> </table>	RMS	45-400 Hz	RMS RIPPLE		AVERAGE	DC, 45-400 Hz
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AVERAGE	DC, 45-400 Hz						

SPECIFICATIONS	MODEL	KVM50E
	INPUT POWER	105-250 VAC, 20 VA, 50/60 Hz, Single Phase
	RESOLUTION 10 VOLT	0-50 kV Range
	RANGE	0-50 kV AC/DC
	DIVIDER IMPEDANCE RESISTANCE	300 M Ohms
	(STRAY) CAPACITANCE	≤ 15 pF
	RATIO	10,000:1
	CABLES INCLUDED	6' (2 m) power cord 10' (3 m) divider lead kit
DIMENSIONS & WEIGHT	METER HEAD	3 3/4" (95 mm) L x 10" W (254 mm) x 11 1/2" (292 mm) H, 8 lbs (4 kgs)
	HV DIVIDER	15" (381 mm) L x 15" W (381 mm) x 8" H (203 mm), 7 lbs (3 kgs)

Environmental Conditions

- 10-40°C, indoor/outdoor in fair weather
- Humidity <95% non-condensing
- Altitude <3300 ft (1000 meters)



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