

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



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)	RMS RMS RIPPLE	45-400 Hz
	AVERAGE	DC, 45-400 Hz

	MODEL	KVM50E
SPECIFICATIONS	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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