

AC/DC Kilovoltmeters and Dividers



Testing Applications

- Units can be used for calibrations and voltage monitoring of high voltage systems
- Traceable calibration to NIST, USA
- Voltage divider can also be used with other measuring devices such as an oscilloscope.

- **Precision accuracy** and lasting **reliability**
- **Compactly packaged** in rugged carrying case for **field or laboratory use**
- **Battery or line powered**
- **100 kV** and **200 kV** models **standard, higher voltages** are available **upon request**

Design Features

- Units include a high voltage divider, metering section, and interconnect cables which are stored in a compact, durable case
- Line power indicator lamp
- Low battery indicator lamp
- 4 ½ digit LCD display with adjustable backlight
- Low and High range voltage selector
- Cables, 25 ft (8 m)





Voltage Measurement Functions

PEAK $\sqrt{2}$	Peak responding	
PEAK	Peak value of voltage	
RMS	True RMS value	
AVERAGE AC/DC	True average value, 0.637 of peak value for pure sine wave signal (not calibrated to RMS equivalent)	
PEAK DC	Peak value of DC including peak of ripple	
RMS RIPPLE	RMS value of ripple voltage on DC	
Accuracy	1% of reading from 10-100% of range	
Frequency Response (Sinusoidal Waveform)	PEAK $\sqrt{2}$ PEAK	DC, 5-1000 Hz
	RMS RMS RIPPLE	20-1000 Hz
	AVERAGE	DC, 20-1000 Hz

	MODEL	KVM100	KVM200
SPECIFICATIONS	INPUT POWER	100-240 VAC, 0.4 A, 47-63 Hz, Single Phase	
	BATTERY POWER	9.6 V, Ni-MH, 3200 mA hr	
	INPUT CHARGING JACK	+18 VDC, .8 A	
	RESOLUTION	RANGE	RANGE
	1 VOLT	0-20 kV	0-20 kV
	10 VOLT	0-100 kV	0-200 kV
	HIGH VOLTAGE INPUT		
	LOW RANGE	0-20 kV AC/DC	0-20 kV AC/DC
	HIGH RANGE	0-100 kV AC/DC	0-200 kV AC/DC
	PEAK	0-142 kV AC	0-200 kV AC
DIVIDER IMPEDANCE			
RESISTANCE	380 M Ohms	760 M Ohms	
CAPACITANCE	≤ 200 pF	≤ 100 pF	
RATIO	10,000:1	10,000:1	
DIMENSIONS & WEIGHT	Length	9 1/2" (241 mm)	9 1/2" (241 mm)
	Width	9 1/2" (241 mm)	9 1/2" (241 mm)
	Height	30 1/2" (775 mm)	43 1/2" (1105 mm)
	Weight	30 lbs (14 kgs)	43 lbs (20 kgs)
SHIPPING SIZE	Length	14" (356 mm)	14" (356 mm)
	Width	14" (356 mm)	14" (356 mm)
	Height	36" (914 mm)	50" (1270 mm)
	Weight	36 lbs (16 kgs)	50 lbs (23 kgs)

Options

DVD100, 100 kV AC/DC Divider 10,000:1 ratio
 DVD200, 200 kV AC/DC Divider 10,000:1 ratio
 KVM Metering Head, requires 10,000:1 ratio Divider

Environmental Conditions

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



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