



# KVM Series

## AC/DC Kilovoltmeters

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■ The HIPOTRONICS KVM Series of kilovoltmeters are highly accurate, portable voltage measurement systems traceable to NIST standards. The KVM series consists of a high voltage divider assembly, a precision readout device, durable carrying case and interconnection leads. The carrying case and battery operation make the system completely portable for field testing while the precision divider assembly and readout device make it suitable for laboratory use.



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### FEATURES

- ☑ **Perform multiple measurements**
  - DC
  - Ripple Voltage – AC superimposed on DC
  - AC Peak
  - AC Absolute average
- ☑ **Low temperature and voltage coefficients**
- ☑ **Digital readout**
- ☑ **AC and DC coupling**
- ☑ **Battery or line power operation**
- ☑ **Light weight and portable divider**
- ☑ **Rugged, reinforced carrying case**
- ☑ **True divider**

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### BENEFITS

**Suitable for use** - in the field, factory, or lab settings

**Simple to use** – unit can be used with oscilloscopes or other measuring devices

**Time Saving** – fast and accurate measurements under varying ambient conditions

**NIST traceable** – significant cost savings on outside calibrations

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### FEATURES

KVM Series AC/DC Kilovoltmeters are ideal for testing and calibrating:

- ➔ AC/DC Hipot testers
  - ➔ High Voltage DC power supplies
  - ➔ Semiconductor implantation systems
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## TECHNICAL SPECIFICATIONS

Model No.	KVM20	KVM100	KVM200	KVM300	KVM400
DISPLAY FEATURES					
INSTRUMENT	Digital, 3 1/2 Digits    1/2" LED, Auto Polarity				
HIGH RANGE (kV)	0-19.99	0-100	0-199.9	0-300	0-400
LOW RANGE (kV)	0-1.999	0-10.0	0-19.99	0-30.0	0-40.0
ACCURACY (dc)	<0.5%	All Accuracies as % of full scale, range from 10-100% of scale			
(rms, average)	<1.0%				
(peak)	<2.0%				
INPUT	Impedance = 1M; Level = 100 VFS				
POWER REQUIREMENTS	Internal Battery - 4 NiCd Cells, size D 8 Hour Operation- 16 Hour Recharge (at 120V or 220V) External Operation - 115, 60Hz or 220V, 50Hz				
HIGH VOLTAGE DIVIDER ASSEMBLIES					
VOLTAGE RATING (DC, kV)	20	100	200	300	400
(AC, rms, average, kV)	20	100	200	300	400
(peak, kVp)	28.3	142	283	425	566
	Assuming a Load Impedance of 1M & < 500pF				
NOMINAL RATIO (VOUT/VIN)	200:1	1000:1	2000:1	3000:1	4000:1
HV ARM IMPEDANCE	Parallel R&C Branches				
RESISTANCE (MΩ)	80	380	760	900	1520
CAPACITANCE (pF)	200	200	200	200	200
FREQUENCY RESPONSE	DC to 1 kHz				
STABILITY COEFFICIENTS	<0.025%/°C				
TEMPERATURE					
VOLTAGE	<0.1% over the working voltage range				
INTERCONNECT CABLES	*One 25 coaxial (RG58/U) with BNC type connectors for interconnection between divider and readout device *One 15' braided cable for divider ground lead *One 6' detachable power supply cord				

## ORDERING INFORMATION

### System

Above Model # with Suffix "-DO" indicates **KVM###-\***  
the divider section only of the  
kilovoltmeter

\* Designate input voltage. 'A' for 120Vin or  
'B' for 220Vin.

### Options

-SPARE PARTS KITS – Catalog nos. SPK1-(Model No.)

European Contact  
**Haefely Test AG**  
 Lehenmattstrasse 353  
 CH-4028 Basel  
 Switzerland  
 ☎ + 41 61 373 4111  
 ☎ + 41 61 373 4912  
 ✉ [sales@haefely.com](mailto:sales@haefely.com)

Locate your local  
 sales representative at  
[www.high-voltage-hubbell.com](http://www.high-voltage-hubbell.com)

USA Contact  
**Hipotronics Inc.**  
 1650 Route 22  
 PO Box 414  
 Brewster, NY 10509 USA  
 ☎ + 1 845 279 8091  
 ☎ + 1 845 279 2467  
 ✉ [sales@hipotronics.com](mailto:sales@hipotronics.com)