

KVA Series AC/DC Kilovoltmeters

FEATURES

- Perform calibration yourself
- 100-division, triple range, mirror scale voltmeter
- Low temperature and voltage coefficients
- AC or DC coupling
- Two piece construction
- Lightweight and portable divider
- Rugged, reinforced carrying case

BENEFITS

- Significant cost savings on outside vendors' calibrations
- Traceable to NIST
- No input power required — power is derived from the high voltage source being measured
- Suitable for field or factory use

DESCRIPTION

The KVA series kilovoltmeters are analog AC and DC meters used to calibrate high voltage test equipment and power supplies. They are low cost instruments that offer the stability and accuracy required for high voltage calibration in varying ambient conditions. All models are traceable to NIST standards.



*Model KVA100
AC/DC Kilovoltmeter*

SPECIFICATIONS

MODEL NO.	KV50A	KV100A
METER		
RANGE (kV)	0-10/25/50	0-20/50/100
FREQUENCY RESPONSE	0-1000 Hz	
ACCURACY	AC and DC: 1% Full Scale, Range from (10-100)% Scale	
DIVIDER		
VOLTAGE RATING	50 kV rms, 50 kV DC	100 kV rms, 100 kV DC
IMPEDANCE	(Separate R and C branches)	
Resistance	190M	380M
Capacitance	200 pF	200 pF
STABILITY COEFFICIENTS	Temperature: DC: 0.025%/C°; AC: 0.1%/C° Voltage: 0.005%/kV	
DIMENSIONS (METER)	10½"W x 8½"D x 15½"H (267 x 216 x 394 mm)	
DIMENSIONS (DIVIDER)	7½" Dia. x 14½"H (190 x 368 mm)	
NET WEIGHT	20 lb (9.1 kg)	21 lb (9.5 kg)
SHIPPING WEIGHT	30 lb (13.6 kg)	31 lb (14.1 kg)

SPECIFICATIONS

MODEL NO.	KVM20	KVM100	KVM200	KVM300	KVM400
DISPLAY FEATURES					
INSTRUMENT	Digital, 3½ Digits ½" LED, Auto Polarity				
HIGH RANGE	0-19.99 kV	0-100 kV	0-199.9 kV	0-300 kV	0-400 kV
LOW RANGE	0-1.999 kV	0-10.0 kV	0-19.99 kV	0-30.0 kV	0-40.0 kV
ACCURACY (dc) (rms, average) (peak)	<0.5% <1.0% <2.0%	All Accuracies as % of Full Scale, Range from (10-100)% of Scale			
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, 50 Hz				
HIGH VOLTAGE DIVIDER ASSEMBLIES					
VOLTAGE RATING (rms) (dc) (peak)	20 kV AC 20 kV DC 28.3 kVp	100 kV AC 100 kV DC 142 kVp	200 kV AC 200 kV DC 283 kVp	300 kV AC 300 kV DC 425 kVp	400 kV AC 400 kV DC 566 kVp
NOMINAL RATIO (VOUT/VIN)	Assuming a Load Impedance of 1 M & < 500 pF				
	200:1	1000:1	2000:1	3000:1	4000:1
HV ARM IMPEDANCE	Parallel R&C branches				
RESISTANCE	80 M	380 M	760 M	900 M	1520 M
CAPACITANCE	200 pF	200 pF	200 pF	200 pF	200 pF
FREQUENCY RESPONSE	DC to 1 kHz				
STABILITY COEFFICIENTS TEMPERATURE VOLTAGE	<0.025%/°C <0.1% over the working voltage range				
INTERCONNECT CABLES	<ul style="list-style-type: none"> • One 25' coaxial (RG58/U) with BNC type connectors for interconnection between divider and readout device (KVM20 - KVM200; 50' long for KVM300, KVM400) • One 15' braided cable for divider ground lead • One 6' detachable power supply cord 				

NOTE: Above Model # with Suffix "-DO" indicates the divider section only of the kilovoltmeter.

ACCESSORIES

- SPARE PARTS KITS — Catalog Nos. SPK1- (Model No.)

For further information, contact:

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NOTE: Because Hipotronics, Inc. has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.