

# HVM

## High Voltage Megohmmeters

■ **The HVM Series** Megohmmeters are designed for portable use in the field or factory. The rugged construction of these instruments is ideally suited to applications in industrial or substation environments where measurements to 300,000 megohms at voltages up to 15 kV are required.

Applications include insulation resistance, polarization index and dielectric absorption testing of apparatus and insulation samples to IEEE, ANSI, UL, MIL, and other standards. A regulated power supply and guard circuit suppression enhance accurate measurements. Surge suppression, short circuit protection and meter recalibration provision guarantee reliable and accurate performance. Test leads are included with each instrument.



### FEATURES

- ☑ **Continuously adjustable test voltage** from zero to rated voltage
- ☑ **Shielded output cable**
- ☑ **Guard circuit** for accurate readings
- ☑ **Megohm readings** to 300,000 megohms
- ☑ **Line regulator** to minimize effect of line variations
- ☑ **Shorting switch** grounds output cable
- ☑ **Press to test** (lockable) pushbutton switch
- ☑ **Single scale** voltmeter
- ☑ **Four range** multiplier switch
- ☑ **Four range** current meter
- ☑ **Surge-limiting resistors** in HV output

### BENEFITS

**Ideal for field testing** – compact, lightweight and rugged makes it suitable for field orientated applications

**Operator Safety** – the power supply and test object are automatically grounded when high voltage is turned off and there is no exposed high voltage

**Simple to Use** - a minimal amount of setup time and a simple control panel allows simple testing every time

**Accurate Resistance Measurement** - while guard circuit eliminates stray leakage currents

### APPLICATIONS

- Cable
- Transformers
- Electrical Switchgear
- Motors
- Generators
- Other Electrical Apparatus

**TECHNICAL SPECIFICATIONS**

General	HVM5	HVM10	HVM15	
Input Voltage		120 V, 60 Hz 230 V, 50 Hz	for -A version for -B version	
Output Voltage	0 - 5 kV	0 - 10 kV	0 - 15 kV	
Polarity	Negative output, positive ground			
Metering	Megohmmeter reading equals the product of the scale reading, decimal multiplier, and voltage multiplier (indexed on the voltmeter)			
Range in M	0.1 - 100,000	0.1 - 200,000	0.1 - 300,000	
Scale Range in M	1 - 100	1 - 100	1 - 100	
Voltmeter Multipliers	1 - 10	1 - 20	1 - 30	
Multipliers Switch in M	X.1 - X1 - X10 - X100	X.1 - X1 - X10 - X100	X.1 - X1 - X10 - X100	
Accuracy	3/32 inch of Scale 1/8 inch of Scale	< 10,000 M > 10,000 M	< 20,000 M > 20,000 M	< 30,000 M > 30,000 M
Voltmeter	0 - 5 kV	0 - 10 kV	0 - 15 kV	
Dimensions (W x H x D)	8.5" x 15" x 10.5" (216mm x 381mm x 267mm)	8.5" x 15" x 10.5" (216mm x 381mm x 267mm)	8.5" x 15" x 10.5" (216mm x 381mm x 267mm)	
Weights	Net 22lbs. Ship 30lbs. (9 kg. 12 kg.)	Net 34lbs. Ship 40lbs. (14 kg. 16 kg.)	Net 38lbs. Ship 45lbs. (15 kg. 18 kg.)	

**SCOPE OF SUPPLY**

- Qty. 1 HVM Megohmmeter
- Qty. 1 Input Line Cord, grounded type 6 feet (1.8 m)
- Qty. 1 Return Cable, 15 feet (3.3 m)
- Qty. 1 High Voltage Output cable, shielded with alligator clip and rubber insulated boot, 15 feet (3.3 m)
- Qty. 1 Calibration Certificate
- Qty. 1 User's Manual

**ORDERING INFORMATION**

**0-5kV DC output**

HVM5-A or HVM5-B

**0-10kV DC output**

HVM10-A or HVM10-B

**0-15kV DC output**

HVM15-A or HVM15-B

**ACCESSORIES**

**Spare Parts Kits**

- SPK1-HVM5
- SPK1-HVM10
- SPK1-HVM15

**Test leads - 15ft. (4.6m)**

HVM-CSI

**OFFICES:**

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