HIPOTRONICS

HVM5 Series

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 100,000 megohms at voltages up to 5 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 100,000 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**

HIPOTRONICS

TECHNICAL SPECIFICATIONS

General		HVM5
Input Voltage		120 V, 60 Hz for -A version 230 V, 50 Hz for -B version
Output Voltage (DC)		0 -5 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
Scale Range in M		1 – 100
Voltmeter Multipliers		1 - 10
Multipliers Switch in M		X.1 – X1 – X10 – X100
Accuracy	3/32 inch of Scale	< 10,000 M
	1/8 inch of Scale	> 10,000 M
Voltmeter		0 – 5 kV
Dimensions (W x H x D)		8.5" x 15" x 10.5" (216mm x 381mm x 267mm)
Weights	Net	22lbs. (9 kg)
	Ship	30lbs (12 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

ACCESSORIES

Spare Parts Kits
SPK1-HVM5

Test leads - 15ft. (4.6m)
HVM-CSI