

# HM3A

## Megohmmeter

■ The HM3A is a highly accurate megohmmeter designed to perform insulation resistance tests on all types of electric components, systems and apparatus. They are designed for general purpose laboratory use and feature test voltages to 1kV and readings to 20,000,000 megohms.

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



Model HM3A  
Megohmmeter

## FEATURES

- ☑ **Short Circuit Protection** – Handles continuous shorting on the output with out damage to internal components.
- ☑ **Self Calibration Feature** – Verify calibration at any time
- ☑ **Guard Circuit** – Allows user to bypass the unwanted portion of the leakage current.
- ☑ **Output Discharge Resistor** – Discharges the stored energy on the test object hen the power is turned off.

## BENEFITS

**Steady output Voltage** - Ferroresonant line transformer and solid state electronic load regulation circuitry provide steady output voltage under varying line and load conditions and eliminate meter fluctuations.

**Broad Measuring Range** – 0.1 to 20,000,000M accommodates a wide range of applications.

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

## FEATURES

The HM3A Megohmmeters are ideal for testing:

- Wire and cable
- Coils and inductors
- Connectors
- Switches and relays
- Motors and generators
- Transformers

## TECHNICAL SPECIFICATIONS

Input Voltage	Model number with suffix - A	120V / 60Hz
	Model number with suffix - B	220V / 50Hz
Output Voltage	50, 100, 500, 1000 V	
Polarity	Negative output, Positive ground	
Note	The ohmic value of the test sample is the product of the scale reading and the decimal multiplier (selector switch).	
Range	0.1 - 20,000,000 M	
Scale Range	(50, 500 V)	1-100M
	(500, 100 V)	2-200M
Resistive Multiplier Switch	(50, 500 V)	$10^{-1}$ , $10^0$ , $10^1$ , $10^2$ , $10^3$ , $10^4$
	(500, 100 V)	$10^0$ , $10^1$ , $10^2$ , $10^3$ , $10^4$ , $10^5$
Accuracy	3/22" of Scale	<1,000,000 M
	1/8" of Scale	>1,000,000 M
Terminations	High Voltage Lead:	5 ft(1.5m) shielded cable (RG58U) with an alligator clip
	Return Lead:	5 ft(1.5m) insulated test lead with alligator clip
Dimensions	12"W x 9"D x 9"H (31 x 23 x 23 cm)	
Weight	Net	15 lb (72kg)
	Ship	27 lb (82kg)

## ORDERING INFORMATION

### System

\* Designate input voltage. 'A' for 120Vin or 'B' for 220Vin. **HM3A-\***

### Options

-SPARE PARTS KITS – Catalog nos. SPK1-HM3A

### OFFICES:

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