



HIPOTRONICS
THE MEASURE OF A LEADER

HM3A Megohmmeter

KEY SAFETY FEATURES

- **SHORT CIRCUIT PROTECTION** — Handles continuous shorting on the output without damage to internal components. The short circuit current is limited to 18 mA.
- **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 in the test object when the power is turned off.



Model HM3A
Megohmmeter

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.
- **NIST TRACEABILITY** — Meter is calibrated with standards traceable to NIST.
- **BROAD MEASURING RANGE** — 0.1 to 20,000,000 M accommodates a wide range of applications.

APPLICATIONS

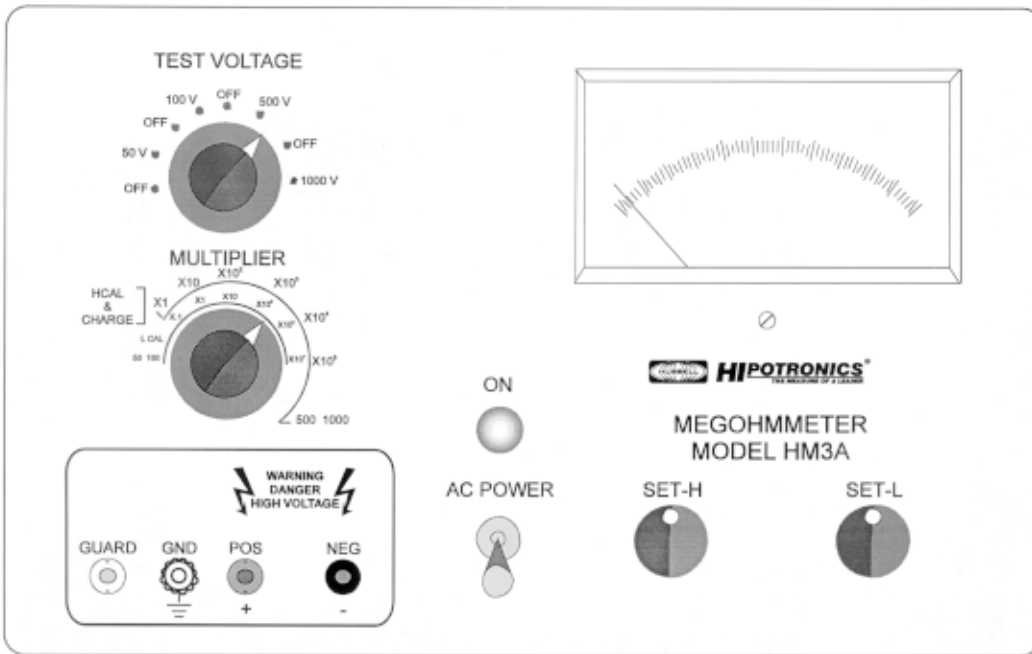
The most common applications are for testing of:

- wire and cable
- coils and inductors
- connectors
- switches and relays
- motors and generators
- transformers

DESCRIPTION

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 1 kV 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.



HM3A
Panel Detail

SPECIFICATIONS

| | | |
|------------------------------------|--|--|
| INPUT VOLTAGE | Model number suffix -A | 120 V / 60 Hz |
| | Model number suffix -B | 220 V / 50 Hz |
| 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 to 20,000,000 M | |
| SCALE RANGE | (50, 500 V) | 1 - 100M |
| | (100, 1000 V) | 2 - 200 M |
| RESISTIVE MULTIPLIER SWITCH | (50, 100 V) | 10^{-1} , 10^0 , 10^1 , 10^2 , 10^3 , 10^4 |
| | (500, 1000 V) | 10^0 , 10^1 , 10^2 , 10^3 , 10^4 , 10^5 |
| ACCURACY | $\frac{3}{2}$ " of Scale | < 1,000,000 M |
| | $\frac{1}{6}$ " of Scale | > 1,000,000 M |
| TERMINATIONS | HV Lead – 5 ft. shielded RG58\U cable with alligator clip Return Lead – 5 ft. 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 (72 kg) |
| | Ship. | 27 lb (12 kg) |

ACCESSORIES

- SPARE PARTS KIT – Catalog No. SPK1-HM3A

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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.