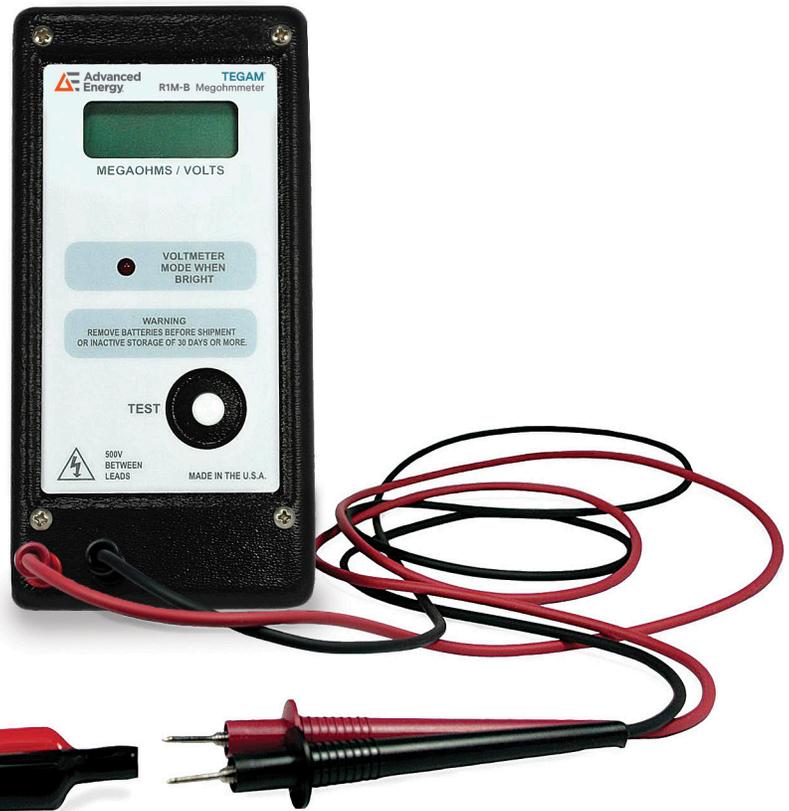


## Megohmmeter

- 1 to 200 MΩ
- 500 V Test Voltage
- Simple One Range Operation
- Measures AC Voltage to 600 V
- LED on when Voltage is Present
- Rugged to MIL Specifications
- Single Push Button for Test
- 9 V Battery Operation



The Model R1M-B Handheld Voltmeter/Megohmmeter complies with MIL-T-28800, Type III, Class 3, Style E for rugged operational environments and shipboard applications. These units perform under the extremes of heat, cold, humidity, shock, vibration, and operator abuse.

The R1M-B is designed to measure insulation resistance in “live” circuits, which may have voltage present. The R1M-B may be connected to 600 V RMS AC or DC without damage, and its mode of operation is automatic. It has no fuse to replace. The R1M-B will operate after a drop from a height of four feet to a concrete floor.

### Operation

The R1M-B Voltmeter/Megohmmeter is activated by pressing the “TEST” switch. When the R1M-B is first turned on, its input is automatically selected as a voltage input, reading any voltage present on the test leads, and displaying that voltage on a liquid crystal display. At the same time, the “VOLTS” LED lights.

If the voltage sensed on the test leads exceeds approximately 1 V, the R1M-B will not take any additional readings. However if there is no voltage (or less than approximately 1 V) on the test leads, the instrument will automatically switch to the megohmmeter mode, whereupon the internal 500 V supply is connected to the test leads and the measured resistance is displayed.

As long as the “TEST” switch is depressed, the R1M-B will continue to take readings. Releasing the switch will automatically turn off the unit, to maximize battery life and minimize the risk of the operator being shocked by the 500 V across the test probes during resistance measurements. (Note that the test current is limited to approximately 1 mA, but this can still produce a shock.)



### Specifications

<b>Measurement Ranges</b>	1 to 200 MΩ, for resistance 3 to 600 VAC RMS, for voltage
<b>Test Voltage for Resistance</b>	500 VDC 10%
<b>Accuracy* &amp; Calibration</b>	Voltage readings within 5% of reading ± 1 count Resistance readings within 3% of reading ± 1 count Suggested Calibraton Interval: 12 months End-of-interval confidence factor: 72%
<b>Recommended Calibration Cycle</b>	1 year
<b>Controls and Display</b>	Single “TEST” switch (mode selection automatic) 3 ½ digit liquid crystal display with 0.5” digits LCD “LO BAT” legend to indicate low battery
<b>Environmental</b>	
<b>Operating Temperature</b>	0 °C to 50 °C, 75 % RH, Non-condensing
<b>Storage Temperature</b>	-40 °C to 71 °C, 0-100 % RH, Non-condensing
<b>Power and Physical</b>	
<b>Power</b>	Standard alkaline 9 V battery
<b>Size</b>	3.5” W x 7.0” H x 1.2” D
<b>Weight</b>	0.6 lb (including battery)
<b>Included Accessories</b>	Protective carrying pouch Two 40 inch test leads with probes and insulated, detachable alligator clips Operation and Maintenance manual

Ordering Information	Model	Part Number
Megohmmeter	R1M-B	NSN 6625-01-353-7077

\*Accuracy based on recommended calibration cycle.