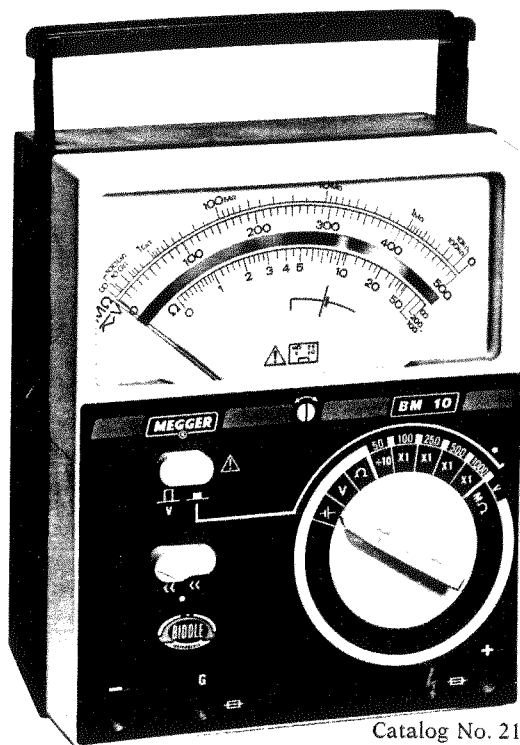


All-Purpose 5-Range Battery Megger® Test Set



Catalog No. 21810

DESCRIPTION

This multi-purpose, multi-range instrument meets insulation testing requirements from 50V to 1000V, with 100,000 MΩ sensitivity. In addition, an ohm scale for continuity testing and an ac/dc voltage scale are included. The tester is very easy to use for maintaining electrical systems, cables, switchgear, motors and generators having high values of insulation resistance. Low voltage (50V) permits tests to be made on electronic components such as those used in computer printers, visual display units, etc. which are easily damaged by higher test voltages.

The meter scale is clear and uncluttered with an anti-parallel mirror for close, accurate reading. All readings are direct in megohms, ohms, ac volts, dc volts, except on the 50-volt test range. A battery condition indicator is also included on the scale.

A large, clearly marked rotary switch provides easy range or function selection. A pushbutton operates the tester; an additional safety slide interlock switch locks on to permit operation at 1000 volts.

Another important safety feature is a safety voltage range for operator protection where the instrument acts as an ac/dc voltmeter on any switch position before the test button is pressed so the meter immediately indicates to the operator if the circuit is energized as soon as the test leads are connected.

The test set is housed in a rugged ABS molded case with built-in carrying handle and clip-on protective cover which also houses the accessories and manual. Options include a special carrying case with shoulder strap.

FEATURES

- 50 to 1000 Volt output in five ranges.
- 100,000 Megohm sensitivity.
- Low resistance range for continuity test.
- AC/DC safety voltage check.
- Guard terminal to eliminate surface leakage errors.
- Pushbutton, battery operation.

SPECIFICATIONS

Insulation Ranges:

DC Test Voltage (±5%)	Resistance at Highest Scale Point	Min. Loading Resistance	Scale Multiplier
50V	10 GΩ (10,000 MΩ)	500kΩ	÷10
100V	100 GΩ (100,000 MΩ)	1 MΩ	1
250V	100 GΩ (100,000 MΩ)	2 MΩ	1
500V	100 GΩ (100,000 MΩ)	2 MΩ	1
1000V	100 GΩ (100,000 MΩ)	5 MΩ	1
All ranges	Short circuit current 4 mA (±1mA)		

Continuity Range: 200Ω (300mV open circuit, 60mA short circuit current).

Safety Check Range: ac/dc 500V
10 MΩ impedance on V range with button pressed;
100 kΩ on all ranges without button pressed.

Scale Length: 5 inches, (127 mm)

Accuracy:

Insulation: ±0.1" (2.54 mm)
Continuity and Voltage: ±0.125" (3.175 mm) from any marked position on scale.

Automatic Discharge: When test button is released after an insulation test, the circuit under test is automatically discharged through the voltmeter (impedance 100 kΩ).

Batteries: Four 1.5V cells "C" size; Eveready 935, Burgess 1 NEDA 14F, or equal.

Life: approximately 20 hours. Power is only consumed when the "Test" button is depressed, thus allowing approximately 10,000 measurements.

Fuses: Two x ceramic cartridge 20 x 5 mm 1A 250V Type F; protects all ranges.

Dimensions: Instrument only: 7.3" x 5.8" x 3.4" (185 x 147 x 87 mm)
With protective cover: 7.3" x 5.9" x 4.2" (185 x 150 x 106 mm)

Weight: 3.3 lbs. (1.5 kg approx.)

Accessories Supplied with instrument:

Lead Set comprising: 3 leads, 2 prods, 3 clips, Protective cover, Operating instructions, 2 spare fuses, Fuse removal key.

Catalog Number: 21810

Accessory Available as an Optional Extra: Catalog No. 210834 Test-and-Carry Case with Shoulder Strap.

Biddle INSTRUMENTS

510 Township Line Road, Blue Bell, Pennsylvania 19422

215-646-9200/Cable: BIDDLE/Telex: 685 1045 JGBCO. Sales offices in principal cities.

