

INSULATION RESISTANCE TEST EQUIPMENT

MEGGER HAND-HELD INSULATION RESISTANCE TESTERS

Hand-held insulation resistance testers are the most economical models, combining simplicity and ease of operation without loss of traditional Megger quality.

The first consideration in selecting a model is the desired test voltage. For simple proof testing and spot checks, a single 500 V model may be all that is required. For more rigorous or specialized testing, other voltages should be considered. Hand-held insulation resistance testers are available from as low as 50 V to as high as 1 kV. For analytical applications, multiple test voltages are desired.

As with voltage selection, insulation resistance range should meet the desired application. Analog models measuring to 200 MΩ are sufficient for simple proof testing, while for more thorough analysis or preventive maintenance trending, digital models offer ranges to 999 MΩ and to 200 GΩ.

The hand-held models also provide the maintenance man or electrician with multimeter functions across the full spectrum of resistance. Continuity testing can be performed at low voltage down to 0.01Ω. Five models offer intermediate kΩ ranges, to 1 MΩ full analog, 100 kΩ digital, and 10 MΩ digital/analog.

Megger® BM400/2 Series and BM80/2

*AVO Direct (800-329-9286)
Code 25104 and 25106*

In addition to their exceptional insulation testing capabilities, these models offer excellent multimeter capabilities -- two instruments in one!

These instruments feature AVO's patented digital/logarithmic arc analog display for enhanced measurement sensitivity.

The BM400/2 Series and BM80/2 feature live circuit warning that automatically displays voltage above 25 V with audible alarm and inhibit circuit to prevent testing on live circuits above 55 V (25 V on all DMM ranges, except volts).

BM400/2 Series offers an extra resistance range at 5 V to 99.9 kΩ digital, 10 MΩ analog. Includes a continuity tone.

The BM80/2 is the top-of-the-line model, with all the capabilities of the BM400/2 Series, plus a total of five test voltages (50 V - 1000 V) and added resistance range. Model BM80/2 can measure continuously from 0.01Ω to 200 GΩ.

Some of the enhanced multimeter functions of these models are:

- Voltmeter Mode: digitally measures to 600 V both ac and dc voltage without switching; offers both 50 V and 500 V analog ranges.
- Resistance Mode (Ω): delivers 205 mA of current; current output is critical when there is rust or corrosion at the point of connection.
- Resistance Mode (kΩ): 5 V at 20 mA for testing sensitive electronic equipment and diodes.

The BM400/2 Series and BM80/2 support the following optional accessories.

Remote Test Switch Probe allows operation from the test probe for true "hands-free" testing. A test is made by simply pressing the remote switch on the probe, greatly increasing the instrument's ease of use and reducing test time.

10 Amp Current Clamp enables the measurement of ac current. With this option, the instrument becomes a complete insulation tester and multimeter in one unit, eliminating the need to carry two separate instruments.

Communication Interface provides an RS232 serial data output

simultaneous to the displayed readings. When used with the AVODATA software (provided) and an IBM compatible PC, long-term insulation monitoring and data storage are possible.

Megger® BM120/BM220 Series *AVO Direct (800-329-9286) Code 25103*

These Insulation Resistance Testers automatically prevent resistance testing in the presence of external voltage, an especially valuable feature for the electrician, who may accidentally connect to a live line.

BM120 Series — Relatively simple single voltage (500 or 1000) digital models that perform continuity check at 200 mA, and indicate presence of voltage by a flashing display.

BM220 Series — Add multiple test voltages, bar graph display, and a voltmeter scale to the basic functions of the BM120 Series.

Hand-cranked, Analog Model *AVO Direct (800-329-9286) Code 25102*

Cat. No. 21805-3 is the most basic model in the line, with hand-crank operation, analog movement, and single test voltage. This compact, lightweight instrument provides insulation resistance and continuity measurements without dependence on batteries or external power source.

Battery-powered Models *AVO Direct (800-329-9286) Code 25102*

These instruments add a function, either voltmeter (Cat. No. 210800-3) or a 1 MΩ resistance range (Cat. No. 210801-3), for troubleshooting to the basic functions performed by the hand-cranked, analog model.

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Ordering Information for Megger® Hand-held Insulation Resistance Testers

Model No.	Catalog No.	Test Voltage	Insulation Resistance	Resistance Range	Power Source	Display			
BM100/4	210800-3	500 Vdc	0-200 MΩ	0-2/200 Ω	Battery	Analog			
BM101/4	210801-3	500 Vdc	0-200 MΩ	0-2/200 Ω 0-1 MΩ					
BM80/2	BM80/2	50 Vdc 100 Vdc 250 Vdc 500 Vdc 1000 Vdc	0-10 GΩ 0-20 GΩ 0-50 GΩ 0-100 GΩ 0-200 GΩ	.1 kΩ-100 kΩ digital 0-10 MΩ analog		Analog/ Digital			
BM121	BM121	500 Vdc	0.1-999 MΩ	.01-99.9 Ω digital		Digital			
BM122	BM122	1000 Vdc	.01-999MΩ						
BM221	BM221	500 Vdc	.01-999MΩ			Analog/ Digital			
BM222	BM222	500 Vdc 1000 Vdc	digital						
BM223	BM223	250 Vdc 500 Vdc 1000 Vdc	.1MΩ-1GΩ analog			Digital			
BM400/2	BM400/2	500 Vdc 1000 Vdc	.01-999MΩ digital	.01-99.9kΩ digital		Digital/ Analog			
BM401/2	BM401/2	500 Vdc	.1MΩ-10GΩ analog	0-10MΩ analog					
BM403/2	BM403/2	250 Vdc 500 Vdc 1000 Vdc							
WM6	21805-3	500 Vdc	0—200 MΩ	0 — 100 Ω	Hand-cranked	Analog			

Ordering Information for BM400/2 Series and BM80/2 Optional Accessories

Cat. No.	Description	
SP1	Remote Test Switch Probe	
MCC10	10 Amp Current Clamp	
DLB1	RS232 Communication Port for BM400/2 Series with case	
DLB2	RS232 Communication Port for BM80/2	