



**HIPOTRONICS**<sup>®</sup>  
THE MEASURE OF A LEADER

## Battery Powered MB10 Microhmmeter

### FEATURES

- Four wire resistance measurement (Kelvin Method)
- Full four digit LED
- Ten amp test current
- One microhm resolution
- Auto zero circuit
- Polarity reversing switch
- Five manually selectable ranges
- Removable current and voltage measurement leads
- Protected against inductive kickback
- Battery operated
- Built in self-regulated recharger
- Rugged polymer case

### BENEFITS

- Accurate resistance measurements
- Wide range of measurements
- Easy to use
- Rugged and portable
- Suitable for benchtop and field applications
- NIST traceable

### APPLICATIONS

Ideal for lab or field measurement of:

- Contact resistance - Circuit breakers and switchgear
- Winding resistance - Transformers, motors and generators
- Resistance measurements on:
  - Fuses
  - Cable splices
  - Bus bars
  - Welds
  - Battery terminal



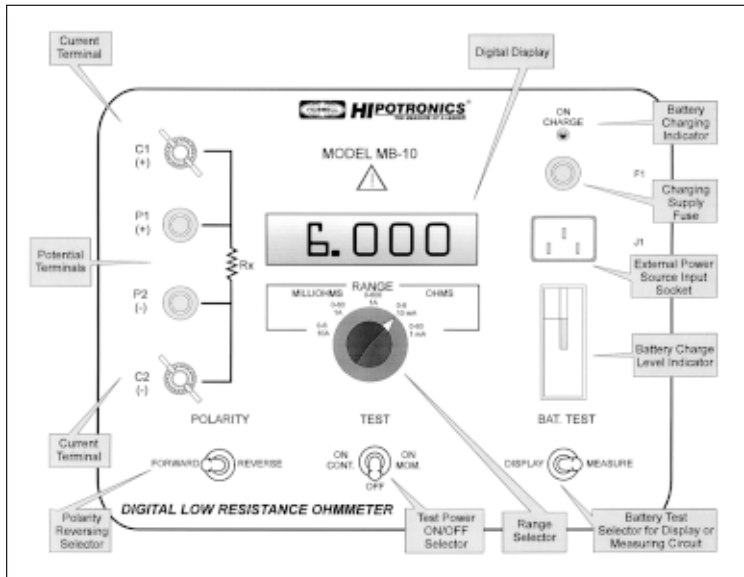
*Model MB10  
Microhmmeter*

### DESCRIPTION

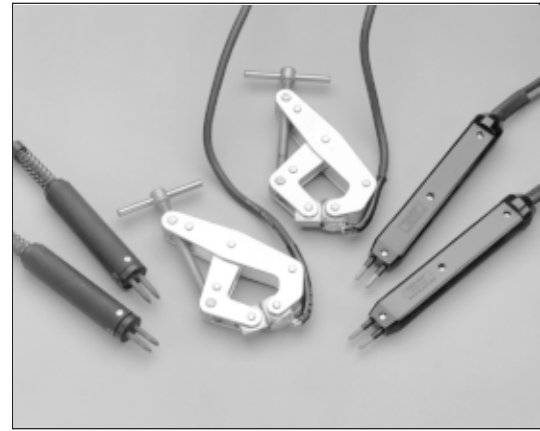
The HIPOTRONICS MB-10 provides highly accurate resistance measurements using the four wire Kelvin method. This portable instrument will measure resistances over the range of 1 microhm to 60 ohms with a test current up to 10 amps. For operator safety, the MB-10 is equipped with circuitry to absorb the stored energy in inductive loads and prevent inductive "kickback" when the test current is shut off.

The HIPOTRONICS MB-10 is highly accurate under a wide range of conditions. Its measurement circuit is not affected by fluctuations in the test current. The digital metering system has an auto-zero circuit that minimizes drift and a tuning circuit to reject line frequency interference. If winding resistances are to be measured, the polarity reversing switch may be used to average readings and eliminate errors.

The HIPOTRONICS MB-10 utilizes a long-life, high quality nickel-cadium battery system with a built-in recharger. The battery recharging system is self-regulated. A three-position TEST switch allows battery power to be conserved with a "momentary" position.



MB10  
Front  
Panel  
Layout



Model No. SFO-18, MB-TL, DHS-18  
Output Test Leads

## SPECIFICATIONS

<b>INPUT VOLTAGE</b>	Model number suffix - A		120V - Charging Circuit		
	Model number suffix - B		220V - Charging Circuit		
<b>TEST RANGE</b>	0-60	0-6	0-600 m	0-60 m	0-6 m
<b>DISPLAY</b>	00.00 to 59.99	0.000 to 5.999	000.0 to 599.9	00.00 to 59.99	0.000 to 5.999
<b>RESOLUTION</b>	10 m	1 m	100 $\mu$	10 $\mu$	1 $\mu$
<b>TEST CURRENT</b>	1 mA	10 mA	100 mA	1 A	10 A
<b>TEMPERATURE RANGE</b>					
<b>OPERATING</b>	10°C to 40°C				
<b>STORAGE</b>	-20 C to 80°C				
<b>HUMIDITY</b>	Operating & storage 5% to 95% RH (non-condensing)				
<b>DIGITAL DISPLAY</b>	Four digit-5999 count, 7 segment LED with automatic decimal point Over range indication (flashing display)				
<b>TEST MODES</b>	Continuous or Momentary				
<b>ACCURACY</b>	$\pm 0.25\%$ of full scale $\pm 2$ counts				
<b>BATTERIES</b>	Battery charger input requirements are 115 V AC, 0.2 A, 50/60 Hz. Equipment suitable for battery charging 230 V AC, 0.1 A, 50/60 Hz battery charging input power may be specified as an option.				
<b>DISPLAY POWER</b>	4 D size Ni-Cad Rechargeable				
<b>TEST POWER</b>	2 F size Ni-Cad Rechargeable — 14 amp hour rated				
<b>TEST LEADS — DHS-18</b>	Two (2) DHS-18 leads of 18' length are supplied with each MB10. See accessories list for additional available lead styles.				
<b>DIMENSIONS</b>	11"W x 9"H x 9"D (280 x 230 x 230 mm)				
<b>NET WEIGHT</b>	13 lb (5.9 kg)				
<b>SHIP WEIGHT</b>	20 lb (9.1 kg)				

For further information, contact:

## ACCESSORIES

- OPTIONAL TEST LEADS — Model No. MB-TL and SFO-18
- SPARE PARTS KITS — Catalog Nos. SPK1-MB10

## Hipotronics, Inc.

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NOTE: Because Hipotronics has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.