

# HIGH RECISION MILLIOHM METER

Model : MO-2013

## FEATURES

* 4 terminal devices for accurate measurement of very low resistance.
* Ideal for measuring the resistance of components precisely.
* Ideal for testing protective conductors, lightning conductors and welded points.
* High/Good/Low set-function for input quality control.
* Build in buzzer sound (GOOD STATUS) to assist the Q.C. judgment.
* Especial "CALCULATE" function to measure cable / wire length.
* Wide measuring range, 0.001 m ohm - 20K ohm, 7 ranges.
* RS232/USB computer interface.
* 26.7 mm large size and back-light LCD display, easy read-out.
* LSI circuit provides high accuracy, reliability and durability.
* Built-in over input protection.
* Durable bench type housing plastic case stand.

## GENERAL SPECIFICATIONS

Test Range (Test Current)	20 m ohm ( 1 A DC ) 200 m ohm ( 1 A DC ) 2 ohm ( 100 mA DC ) 20 ohm ( 10 mA DC ) 200 ohm ( 1 mA DC ) 2 K ohm ( 100 uA DC ) 20 K ohm ( 10 uA DC )
Warning Setup	* Warning LCD Indicator * Buzzer
Operating Temp.	0 to 50 °C ( 32 to 122 °F ).
Operating Humidity	Less than 80 %RH.
Power Supply	AC 110V +/- 15%, 50/60 Hz or AC 230V +/- 15%, 50/60 Hz.
Power Consumption	AC 110V : Approx. 33 mA AC 230V : Approx. 15 mA
Fuse for Power Supply	* 500 mA / 250 V * Size : 5 X 20 mm dia..

Data Output	RS 232/USB PC serial interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Dimension	280 x 210 x 90 mm ( 11.0 x 8.3 x 3.5 inch)
Weight	Approx. 2.04 Kg ( 4.49 LB ).
Standard Accessories	Power Cord.....1 PC. 4 wire with 2 Kelvin clips.....1 pair. Instruction Manual.....1 PC.
Optional Accessories	RS232 cable, UPCB-02 USB cable, USB-01 Data Acquisition software, SW-U801-WIN

## ELECTRICAL SPECIFICATIONS ( 23± 5 °C )

Range	Resolution	Test current	Accuracy
20 m ohm	0.001 m ohm	1 A	± ( 0.2 % + 12 d )
200 m ohm	0.01 m ohm	1 A	± ( 0.2 % + 4 d )
2 ohm	0.0001 ohm	100 mA	
20 ohm	0.001 ohm	10 mA	
200 ohm	0.01 ohm	1 mA	
2 K ohm	0.0001 K ohm	100 uA	
20 K ohm	0.001 K ohm	10 uA	
<p>@ The above accuracy is based on the reading value. @ Spec. tested under the environment RF Field Strength less than 3 V/M &amp; frequency less than the 30 MHz only.</p>			

Range	Open Circuit Voltage
20 m ohm	Approx. DC 4.54 V
200 m ohm	Approx. DC 4.54 V
2 ohm	Approx. DC 4.50 V
20 ohm	Approx. DC 4.06 V
200 ohm	Approx. DC 3.51 V
2 K ohm	Approx. DC 3.08 V
20 K ohm	Approx. DC 2.32 V

\* Appearance and specifications listed in this brochure are subject to change without notice.

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