

Model: 4137MO
DigiBaMiter



STANDARD

DIGITAL BATTERY OPERATED MILLI-OHM METER (2,3,4 wires)



The **DigiBaMiter 4137mo** from is a **BATTERY OPERATED** "full feature professional instrument". The **RUGGED and "O-RING" SEALED** digital, battery operated milli-ohm meter is also called **Digital Low Resistance Ohmmeter**, specially designed to **measure low resistance** accurately and give the result directly on the **large and clear LCD**. The **4137mo** makes measurements by passing a **constant current** through the device under test (generally a conductor or low resistance) and measuring the voltage across it. The Low Resistance is then calculated, using ohm's law.

This superb instrument is powered by 8 x 1.5 volt manganese-alkaline AA batteries. It is supplied complete with instruction manual and test report / QA certificate. This ensure that every product is not just fully functional and calibrated

after the assembly lines, but also within tight specifications tolerances before leaving the **strict quality control** of Standard Electric Works.

It has visual LED checks for excessive; **temperature**, potential lead resistance (R_p) and current lead resistance (R_c). This instrument is indispensable to precision laboratory applications and to applications in the field as to measure bonding joints, circuit breakers, fuse resistance, testing earth bonds in mines, rail bond when a rail is used as part of a communication system or for power transmission, measuring track resistance on Printed Circuit Boards, Checking the plating quality on PCBs, contacts of relays, continuity or ring circuits and of protective conductors etc... The integral buzzer also sound when current is regulated through C_1 - C_2 .

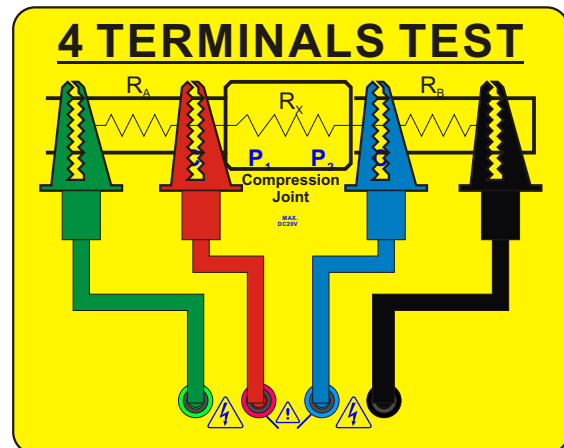
The **4137mo** has **all the EnerSave™** features found inside the is "Advantage" instruments. The Instrument uses the **four-terminal method**

- Measure down to 100 μ .
- 5 ranges from 200.0m to 2000 .
- Maximum resolution of 100 μ .
- Three Test Current with Over-Temperature Protection.
- Test Leads Resistance Zeroing.
- Four Terminal Measurement.
- Protection against inadvertent connection to over-voltage.
- Lockdown Button (continuous use).
- Clear & Large Liquid Crystal Display.
- Potential Lead Resistance, Current Lead Resistance Checks.
- State of the art movement.
- 8 x 1.5V batteries.
- Bat. OK / Low battery indicator.
- Lightweight, Robust & Compact.
- Color coded test leads.
- Rugged "O-Ring" sealed case..
- Two-year warranty.
- Indicators shows if reading may be invalid (R_p , R_c , and temperature).

DigiBaMiter 4137mO- Designed for Professionals

INDICATORS

NO TEST	●	Test Current Stopped or Over Temperature. Stop and wait for instrument to cool down.
R_P	●	Resistance too high or over-voltage between the potential terminals.
R_C	●	Out of Current Regulation. Resistance too high or fuse blown between the current terminals.



TECHNICAL SPECIFICATIONS		4137mo
Low Resistance Ranges	Steps of 100μ	0-200.0m
	Steps of 1m	0-2000m
	Steps of 10m	0-20.00
	Steps of 100m	0-200.0
	Steps of 1	0-2000
Accuracy of Low Resistance	(Of reading)	1%±2dgt
Test Current (dc)	(200.0m & 2000m)	100mA
	(20.00 & 200.0)	10mA
	(2000)	1mA
Accuracy (% of reading)	0-200.0m	1%±2dgt
	0-2000m	0.8%±2dgt
	0-20.00	0.7%±2dgt
	0-200.0	0.7%±2dgt
	0-2000	0.7%±2dgt
Maximum Output Voltage (C₁ C₂)		20V
BATTERY Power Supply Tolerance		+10%-20%

PERFORMANCE SELECTOR	4137mo
Measure Low resistance	•
Measure Transformer Coil Resistance	•
Measure Contact Resistance	•
Measure Bonding Resistance	•
Powered by 8 x 1.5V batteries	•
Over Voltage Protection	•
Fuse Protection	•
True Constant Current Source	•
Sound (Buzzer) annunciators	•
Full Featured EnerSave™ software	•
Four terminal Measurement	•
Allows 3 or 2 terminal Testing (ext. Short)	•
Rugged and "O-Ring" sealed case	•
Microprocessor Controlled	•
"Industrial " grade case	•
LEDs Indicators (>T°C >R _C , >R _P)	•
Crowbars	•
Color Coded Test Leads	•
100% water proof once lid secure	•
Large and Clear Liquid Crystal Display	•
Meet CE requirements & IEC 1010	•
Knob Selection of Ranges	•

of measurement, in which the resistance of the test leads in the current circuit does not affect the measurement. The circuit has been designed so that the resistance of the **potential circuit also does not affect the measurement.**

3 or two terminal measurement can be performed (reduced accuracy) by shorting C₁-P₁C (3T) and also C₂-P₂(2T).

The D.C. Test current is 1mA, 10mA and 100mA. The maximum test voltage has been **limited to well below 20V for safety** reasons.

There are five measuring ranges and they are selected by a large rotary switch that incorporates an "OFF" position. **No measuring current goes through the rotary switch. This guarantee no contact errors and reliability problems in time.**

The instrument is easy to use and has an "AUTO-HOLD". Test can be quick (EnerSave™ enabled) if the Test button is pressed for less than two seconds or long (EnerSave™ disabled) if the Test button is pressed for more than three seconds. The test can always be stopped at any time, on any range/mode and the "AUTO-HOLD" is always enabled.

The 4137mo is able to measure the resistance of motor coil, transformers, pcb layout, protective conductors, welded points, etc...

A Main operated version is available (4136mo) for use in factory environment or where power is available.

Specifications subject to change without notice.

Authorized Distributor of SEW in China

Shanghai beihan Electronics Co.,Ltd

TEL: 86-21-63340274 63340254 FAX: 86-21-63340789

http://www.beha.com.cn

e-mail: info@beha.com.cn