Low Resistance Micro Ohm Meter

-The kit should be work with the battery

·   Measurement of resistive object type:

-welded and soldered connections, equipotential bonding, earth wire,

-terminals and connectors, rail welded joints, cables and wires,

-measurement 4-pole method.

-Both Unidirectional & Bidirectional measurement for the resistance measurement

-Limit setting for the resistacne value

·   Measurement of inductive object type:

-coils (motors and transformers), low resistance coils.

-Both Unidirectional & Bidirectional measurement for the resistance measurement

·   Range selection autoranging or manual (measurement of inductive object type).

·   Selectable measurement mode adjusted to object type:

-for resistive objects – fast mode (3 seconds),

-for inductive objects – long mode with automatic discharge after measurements (or with lower accuracy – shorter mode). · Selectable measurement mode adjusted to application:

-normal mode – after pushing „START" button,

automatic mode – since test leads are connected to the object meters automatically starts measurement with dual direction current flow and gives average result

-what eliminates eventual DC voltage on tested object,

-continuous mode – every 3 seconds for resistive objects or continuous measurement for inductive objects.

·   Limits:

 this option enables setting an upper and a lower limit between which the average measurement result is bound to appear.

The results outside of this range will be indicated by two long audible signals and the symbols.

·   Memory store for up to 990 results and a communications facility for transferring data from the device to a PC. Electric security:

– type of insulation: double, according to EN 61010 – 1 and IEC 61557

– measurement category: CAT III 300 V acc. to EN 61010 – 1

– protection class acc. to EN 60529:
IP54 Other technical data:

– meter's power supply: battery package SONEL/Ni-MH 4,8 V

– battery charging time: approx. 2.5 hours

- number of measurements with the current of 10 A: 300
- auto-off time: 120 seconds
- immunity to interference: additional error ≤1% for voltage 50 Hz ≤100 mV RMS
- maximum leads resistance for the 10 A current: 0,1 Ω
- maximum inductance of the tested object: 40H
- accuracy of the test current: ±10%
- resistance measurement time:
- with the selected resistive object type with the bidirectional current: 3 seconds
- RS232 connectivity
- Free software for report generation

- with the selected inductive object type, dependant on the
resistance and inductance of the object: a few minutes (max. 10)

Standards:

EN 61326:1997+A1:1998+A2:2001 Electrical equipment for measurement, control and laboratory use – EMC
requirements. Resistance measurement–

with Ranges 1μΩ...999μΩ with Resolution 1μΩ,1,000...1,999 mΩ with Resolution,0,001mΩ,2,00...19,99 mΩ with Resolution,0,01mΩ,20,0...199,9 mΩ Resolution,0,1mΩ,200...999 mΩ with Resolution,1mΩ,2,00...19,99 Ω with Resolution0,01Ω,20,0...199,9 Ω with Resolution0,1Ω,200...1999 Ω with Resolution,1Ω

Accuracy should be 0.25%

- input impedance of the voltmeter: ≥200
kΩ „m.v." – measured value.

Range	Resolution	Measurement current	Accuracy
0...999,9 µΩ	1 µΩ	10A	±(0,25% w.m. + 2 digts)
1,0000...1,9999 mΩ	0,0001 mΩ		
2,000...19,999 mΩ	0,001 mΩ		
20,00...199,99 mΩ	0,01 mΩ	10A/1A	
200,0...999,9 mΩ	0,1 mΩ	1A/0,1A	
1,0000...1,9999 Ω	0,0001 Ω		
2,000...19,999 Ω	0,001 Ω	0,1 mA	
20,00...199,99 Ω	0,01 Ω	10 mA	
200,0...1999,9 Ω	0,1 Ω	1 mA	

Standard Accessories: – two-wire 3m test lead (2pcs), – Kelvin's clamp (2pcs), – double pin probe (2pcs), – Power Cord, – Carrying case for meter and accessories, – USB cable, – User Manual, – Calibration Certificate, – PC software (Sonel Reader).