



# INSULATION RESISTANCE METER MIC-2501



#### • Insulation resistance measurement:

- selectable measurement voltage in the 100...2500 V range with 100 V step,
- continuous indication of insulation resistance or leakage current,
- automatic discharge of capacitance of tested object after the insulation resistance measurement,
- acoustic signalling of five-second periods to facilitate obtaining time characteristics,
- measured test times T1, T2 i T3 to measure one or two absorption coefficients in 15, 60 and 600 s,
- indication of actual test voltage during the measurement,
- protection against measuring live objects,
- two and three-lead measurement method,
- Continuity measurement of protective and equipotential conductors according to EN 61557-4 with the >200 mA current.
- Leakage current measurement.
- Measurement of alternating and direct voltages in the 0...750 V range.
- Built-in rechargeable battery pack.
- The instruments meet the requirements of the EN 61557 standard.
- The ability to charge from car lighter (12 V) socket (additional accessories).

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## **MIC-2501**

#### Insulation resistance measurement (two-lead)

Measurement range acc. to IEC 61557-2 for  $R_{IsOmin} = U_{IsOmax} / I_{IsOmax} = 1 \text{ mA}$ 

Accuracy	Resolution	Range
	0.1 kΩ	0.0999.9 kΩ
]	0.001 MΩ	1.0009.999 ΜΩ
	0.01 MΩ	10.0099.99 MΩ
±(3% w.m. + 20 digits)	0.1 ΜΩ	100.0999.9 MΩ
]	0.001 GΩ	1.0009.999 GΩ
]	0.01 GΩ	10.0099.99 GΩ
	0.1 GΩ	100.0999.9 GΩ

#### Values of measured resistance depending on measurement voltage

Voltage U <sub>iso</sub>	Measurement range
500 V	500 GΩ
1000 V	1.00 ΤΩ
2500 V	1.00 ΤΩ



#### Continuity measurement of protective connections and equipotential bonding with 200 mA current

Measurement range acc. to EN 61557-4: 0.10...999  $\Omega$ 

Range	Resolution	Accuracy
0.0019.99 Ω	0.01 Ω	±(2% w.m. + 3 digits)
20.0199.9 Ω	0.1 Ω	±(2 /6 W.III. + 3 uigits)
200999 Ω	1 Ω	±(4% w.m. + 3 digits)

- Voltage on open terminals: 4...24 V
- Output current at R  $<2 \Omega$ :  $I_{sc}>200 \text{ mA}$
- · Compensation of test lead resistance
- Current flowing in both directions, mean value of resistance is displayed

#### DC and AC voltage measurement

Range	Resolution	Accuracy
0299,9 V	0,1 V	±(3% w.m. + 2 digits)
300750 V	1 V	±(3% w.m. + 2 digits)

• Frequency range : 45...65 Hz



#### Electrical safety:

- double, in acc. with EN 61010-1 and IEC 61557 - type of insulation IV 600 V (III 1000 V) in acc. to EN 61010-1 - measurement category
- case protection rating in acc. with EN 60529

Other technical specifications: - power supply of the meter

NiMH 9.6 V - 2 Ah battery pack and power supply 12 V approx. 0,9 kg

200 x 180 x 77 mm

- weight of the meter
- dimensions - display

LCD segment display - measurement results memory 990 cells, 11880 records - transmission of measurement results USB

The acronym "m.v." stands for a "measured reference value".

### Standard accessories:

- test lead banana plug; 1,8 m; 5 kV; red test lead banana plug; 1,8 m; 5 kV; blue test lead banana plug; 1,8 m; 5 kV; black
- USB cable
- "crocodile" clip 5,5 kV; black "crocodile" clip 5,5 kV; red "crocodile" clip 5,5 kV; blue
- pin probe 5 kV with banana connector; red pin probe 5 kV with banana connector; black
- carrying case
- power supply adaptor Z7
- meter harness
- DVD with software, including "SONEL Reader" (reading data from memory)
- calibration certificate
- warranty card

WAPRZ1X8REBB WAPRZ1X8BUBB WAPRZ1X8BLBB WAPRZUSB WAKROBL20K07 WAKRORE20K07 WAKROBU20K07 WASONREOGB2 WASONBLOGB2 WAFUTM8 WAZASZ7