

# INSULATION RESISTANCE METER MIC-2505



**CAT IV**  
**600V**

**IP 54**



**INSULATION  
RESISTANCE  
MEASUREMENT  
UP TO  
2TΩ  
IN ACCORDANCE  
WITH IEC 61557-2**

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- **Insulation resistance measurements:**
  - selectable measurement voltage 500, 1000 V or 2500V,
  - continuous indication of measured insulation resistance or leakage current value,
  - automatic discharge of measured object capacitive voltage after the completion of insulation resistance measurement,
  - acoustic signaling of 5 seconds time intervals to facilitate capturing time characteristics,
  - metered  $T_1$ ,  $T_2$  and  $T_3$  test times for measuring two absorption coefficients for 15, 60 and 600 sec.,
  - indication of actual test voltage during measurement,
  - protection against measuring live objects.
- **Insulation resistance measurement method for two-and three-wire.**
- **Measurement of leakage current during insulation resistance testing.**
- **DC and AC voltage measurement in the range of 0...600 V.**
- **Power supply from battery packs.**
- **The instruments meet the requirements of the EN 61557 standard.**

# MIC-2505

## Insulation resistance measurement (two-lead)

Measurement range acc. to IEC 61557-2 for  $R_{ISOmin} = U_{ISOmin} / I_{ISOmax} \dots 2T\Omega$  ( $I_{ISOmax} = 1mA$ )

Range	Resolution	Accuracy
0.0...999.9kΩ	0.1kΩ	±(3% w.m. + 20 digits)
1.000...9.999MΩ	0.001MΩ	
10.00...99.99MΩ	0.01MΩ	
100.0...999.9MΩ	0.1MΩ	
1.000...9.999GΩ	0.001GΩ	
10.00...99.99GΩ	0.01GΩ	
100.0...999.9GΩ	0.1GΩ	
1.000...2.000TΩ	0.001TΩ	

Values of measured resistance depending on measurement voltage

Voltage $U_{ISO}$	Measurement range
500V	500GΩ
1000V	1.00TΩ
2500V	2.00TΩ

## DC and AC voltage measurement

Range	Resolution	Accuracy
0...600V	1V	±(3% w.m. + 2 digits)

- Frequency range : 45...65Hz

## Standard accessories of the meter:

- test lead banana plug; 1,8m; 5kV; red
- test lead banana plug; 1,8m; 5kV; blue
- test shielded lead with banana plug; 1,8m; 5kV; black
- "crocodile" clip K02 5kV; black
- "crocodile" clip K05 5kV; blue
- pin probe 5kV with banana connector; red
- carrying case L4
- power supply adaptor Z7
- battery pack
- meter harness
- calibration certificate
- warranty card

- WAPRZ1X8REBB
- WAPRZ1X8BUBB
- WAPRZ1X8BLBB
- WAKROBL20K04
- WAKROBU20K05
- WASONRE0GB2
- WAFUTL4
- WAZASZ7

## Electrical safety:

- type of insulation double, in acc. with EN 61010-1 and IEC 61557
- measurement category IV 600V (III 1000V) in acc. with EN 61010-1
- case protection rating in acc. with EN 60529 IP54

## Other technical specifications:

- power supply of the meter SONEL L-1 NiMH 9.6V battery pack
- weight of the meter approx. 1,3kg
- dimensions 260 x 190 x 60 mm
- display LCD segment display

## Required standards met by the instrument:

- EN 6101-1 (General equipment related to safety)
- EN 61010-031 (Particulars requirement related to safety)
- EN 61326 (Electromagnetic compatibility)
- EN 61557 (Requirements for measurement instruments)
- HD 60364-6 (Performance of measurements - checking)
- HD 60364-4-41 (Performance of measurements - protection against electric shock)
- EN 04700 (Performance of measurements - rough-in inspection test)