

INSULATION RESISTANCE METER MIC-2505



CAT IV
600V

IP 54



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

- **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.

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MIC-2505

Insulation resistance measurement (two-lead)

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

Range	Resolution	Accuracy
0.0...999.9k Ω	0.1k Ω	$\pm(3\% \text{ w.m.} + 20 \text{ digits})$
1.000...9.999M Ω	0.001M Ω	
10.00...99.99M Ω	0.01M Ω	
100.0...999.9M Ω	0.1M Ω	
1.000...9.999G Ω	0.001G Ω	
10.00...99.99G Ω	0.01G Ω	
100.0...999.9G Ω	0.1G Ω	
1.000...2.000T Ω	0.001T Ω	

Values of measured resistance depending on measurement voltage

Voltage U_{ISO}	Measurement range
500V	500G Ω
1000V	1.00T Ω
2500V	2.00T Ω

DC and AC voltage measurement

Range	Resolution	Accuracy
0...600V	1V	$\pm(3\% \text{ w.m.} + 2 \text{ digits})$

- 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
WAPRZ1X8UBB
WAPRZ1X8LBB
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)