

INSULATION RESISTANCE METER



MIC-3



Insulation resistance measurement

Continuity test with current $I > 200\text{mA}$

Low-voltage resistance measurement

Measurement of AC/DC voltage

Main features of MIC-3:

- test voltages: 250V, 500V and 1000V,
- insulation resistance measurement up to $3\text{G}\Omega$,
- continuity test of protection wire and junction with the current $I > 200\text{mA}$,
- low-voltage resistance measurement,
- automatic selection of measuring ranges,
- automatic discharge of tested object after measurement,
- acoustic determination of 5 second time intervals that facilitates to take time characteristics during measurement,
- ergonomic operation.

The MIC-3 meter is a small, portable instrument for measuring the insulation resistance of electrical installations, motors and other devices. It can measure the protective circuits and junctions' continuity with the test current $I > 200\text{mA}$. Moreover, the meter can be used to measure AC/DC voltages and low-voltage measurement of small resistances with beeper signalization.

Standard Accessories

- Test lead with banana plug; 1,2m; black (WAPRZ1X2BLBB)
- Test lead with banana plug 1,2m; yellow (WAPRZ1X2YEBB)
- Pin probe with banana connector; black (WASONBLOGB1)
- Pin probe with banana connector; yellow (WASONYEOGB1)
- "Crocodile" clip K01; black (WAKROBL20K01)
- Carrying case M1 (WAFUTM1)
- R6 batteries
- User manual
- Calibration Certificate

Optional Accessories

- Calibration Certificate issued by Calibration Laboratory (LSWGBMIC3)

2 year warranty

Nominal operating conditions

- test voltages: 250V, 500V and 1000V
- test voltage accuracy ($R_{obc} [\Omega] \geq 1000 \cdot U_N [V]$): -0+10% of the set value
- the voltage temperature stability better than: 0,1% / °C

Electrical Safety

- measurement category: CAT. III 300V EN 61010-1:2001
- protection class: IP40

Other technical data

- power supply: 2 R6 batteries (AA size) or 2 rechargeable R6 batteries
- dimensions: 230 x 67 x 33 mm
- weight (incl. batteries): approx. 300g
- operating temperature: 0..+40°C
- storage temperature: -20..+60°C
- AUTO-OFF time: 120 seconds.
- frequency of measurements in R_{ISO} mode: approx. 3 measurements/sec
- display: LCD, 3 1/2 digits 14mm high

☞ „m.v.“ in the definition of accuracy denotes the measured value

Insulation resistance measurement R_{ISO} (1000V)

Voltage	Range	Resolution	Accuracy
250V	0...1999kΩ	1kΩ	±(3% m.v. + 8 digits)
	2,00...19,99MΩ	0,01MΩ	
	20,0...199,9MΩ	0,1MΩ	
	200...1000MΩ	1MΩ	
500V	0...1999kΩ	1kΩ	±(3% m.v. + 8 digits)
	2,00...19,99MΩ	0,01MΩ	
	20,0...199,9MΩ	0,1MΩ	
	200...1999MΩ	1MΩ	
1000V	0...1999kΩ	1kΩ	±(3% m.v. + 8 digits)
	2,00...19,99MΩ	0,01MΩ	
	20,0...199,9MΩ	0,1MΩ	
	200...1999MΩ	1MΩ	±(4% m.v. + 6 digits)
2,00...3,00GΩ	0,01GΩ		

Protective wire continuity measurement

Range	Resolution	Accuracy
0,00...19,99Ω	0,01Ω	±(2% m.v. + 3 digits)
20,0...199,9Ω	0,1Ω	
200...399Ω	1Ω	

- max. voltage on the open terminals - 5,0V
- current with the closed terminals (for U_{BAT} 2,4V) > 200mA

Low-voltage resistance measurement

Range	Resolution	Accuracy
0,0...199,9Ω	0,1Ω	±(2% m.v. ± 3 digits)
200...399Ω	1Ω	±(4% m.v. ± 3 digits)

- sound signal for resistances less than approx. 10Ω
- max. voltage on the open terminals - 5V
- maximum current on the closed terminals - 10mA

Voltage measurement

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

- AC/DC voltages 45...65 Hz
(sinusoidal shape with harmonic contents < 2%)

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