Index: WMGBMIC2

CAT IV

600V





MIC-2

INSULATION RESISTANCE METER

Digital insulation meter MIC-2 automatically select insulation measurements range at 250 and 500V test voltages. This insulation meter is suited for insulation resistance measurements of electric installations, motors and other electric devices. MIC-2 can also be used to measure voltage up to 600V AC and resistance up to 1999Ω. Instrument is easy to use, professional tool in small and incredibly ergonomic case.

- "crocodile" clip K01; black
- pin probe with banana connector black
- batteries 1,5V (AAA) (2 pcs.)

- AGT-16P (triple phase socket adapter)

- AGT-32P (triple phase socket adapter)

- AGT-63P (triple phase socket adapter)

- WAKROBL20K01 calib WASONBLOGB1 - oper
 - calibration certificate issued by SONEL S.A.
 operating manual
- **Optional accessories of the meter MIC-2:**

Standard accessories of the meter MIC-2:

- WAADAAGT16P Waadaagt32P Waadaagt63P
- carrying case S2
- calibration certificate issued

by calibration laboratory

WAFUTS2

LSWPLMIC2



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MIC-2

Insulation resistance measurement:

- the measurement voltage is selected between the two values 250V or 500V,
- on-line insulation resistance measurement,
- automatic discharge of tested object's capacitance after measurement of insulation resistance,
- acoustic determination of 5 seconds time intervals that facilitates to take time characteristics during insulation resistance measurement,
- protection against live objects.
- Low voltage resistance measurement in range 0...2000Ω:
- current measurement <10mA with resolution 0.1Ω,
- quick acoustic signalling (beeper) for circuit resistance below 10Ω.
- AC/DC voltage measurement in range 0...600V:
- automatic detection AC/DC voltage.
- Autoranging.
- Suitable for 50Hz and 60Hz network.
- Backlit display.
- "AUTO-OFF" function.
- Meter meets the requirements of the standard EN 61557.

Electric security:

 type of insulation measurement category protection class acc. to EN 60529 	double, according to EN 61010-1 and IEC 61557 CAT IV 600V acc. to EN 61010-1 IP65
Other technical data:	
- power supply	batteries LR03 (AAA) (2 pcs.) or rechargeable battery
- measurement current R _{ISO}	1,2mA ± 0,2mA
- max interference voltage at which a	a measurement is realised R _{ISO} 20V
- number of R _{iso} measurements	> 500
- dimensions	approx. 240 x 60 x 30 mm
 weight (including batteries) 	approx. 0,3kg
- auto power OFF	5 min.
 electromagnetic compatibility 	according to EN 61000-6-3 and EN 61000-6-2
 quality standard 	ISO 9001

The group of Insulation Resistance Meters conforms the following directives or standards according to CE requirements.

Directive: Low Voltage Directive (LVD) 2005/95/WE.

- Standards: EN 61010-1:2001 Safety requirements for electrical equipment for measurement, control and laboratory use. General requirements. EN 61010-031:2002/A1:2008: Safety requirements for electrical equipment for measurement, control and laboratory use. Safety requirements for hand-held probe assemblies for electrical measurement and test.
 EN 61557-2:2007 Electrical safety in low-voltage distribution systems up to 1000 V AC and 1500 V DC Equipment for testing, measuring, or monitoring of protective measures Part 2: Insulation resistance. This part of IEC 61557 specifies the requirements applicable to equipment for measuring the insulation resistance of equipment and installations in the de-energized state.
- Directive: Electromagnetic compatibility (EMC): 2004/108/WE.
- Standards: EN 61325-1:2006 Electrical equipment for measurement, control and laboratory use - EMC requirements.

Insulation resistance measurement:

U₁₅₀=250V

Measurement range: IEC 61557-2: 250k0...1000M0

Range	Resolution	Accuracy
1249kΩ	1kΩ	not specified
2501999kΩ	1kΩ	
2,0019.99MΩ	0.01MΩ	±(3% m.v. + 8 digits)
20,0199.9ΜΩ	0.1MΩ	±(0 % 11.v. + 0 digits)
2001000ΜΩ	1MΩ	

U_{IS0}=500V

Measurement range: IEC 61557-2: 500kΩ...1999MΩ

Range	Resolution	Accuracy
1499kΩ	1kΩ	not specified
5001999kΩ	1kΩ	
2,0019.99ΜΩ	0.01MΩ	±(3% m.v. + 8 digits)
20,0199.9MΩ	0.1MΩ	±(0 /0 m.v. + 0 uigits)
2001999MΩ	1MΩ	

Resistance measurement:

Range	Resolution	Accuracy
0,0199.9Ω	0.1Ω	±(4% m.v. + 3 digits)
2001999Ω	1Ω	±(4 /0 III.V. + 5 ulgits)

• continuous audible signal for $R < 10\Omega$

• measurement current (with open terminals for $U_{\text{bat}} > 3.0V$): < 10mA

• max voltage on open terminals: 4...24V

• max interference voltage for which measurement is still possible: +7V/-1V DC, 5V AC

AC/DC voltage measurement

Range	Resolution	Accuracy
0600V	1V	±(3% m.v. + 2 digits)

"m.v." - measured value.

Rated operational conditions:	
- operating temperature	0

 reference temperature 	23 ± 2°C
- storage temperature	-20+70°C

.+40°C