

Insulation Resistance Meter

AMIC-30

Insulation resistance measurement: 50-1000 V (10V steps) - 100GΩ.

Low voltage resistance measurement.

AC/DC voltage measurement 0...600V.

Capacitance measurements, Leakage current and absorption coefficients.

990 memory cells and wireless data transmission to a computer.



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Main characteristics are the following:

Insulation resistance measurement:

- -Measurement voltage: 50 1000 V, 10V steps.
- Continuous indication of insulation resistance or leakage current.
- -Automatic measurement in sockets with the UNI-Schuko adapter with possibility of configuring pairs of measured cables.
- -Automatic discharge of capacitance of tested object after the insulation resistance measurement.
- -Acoustic signaling of five-second periods to facilitate obtaining time characteristics.
- -Measured test times T₄, T₂ and T₂ to measure one or two absorption coefficients in the 1... 600 sec. range.
- -Indication of actual test voltage during the measurement.
- -Protection against measuring live objects.
- -Three-lead measurement.

Leakage current measurement.

Continuity measurement of protective and equipotential conductors according to EN 61557-4 with the >200mA current.

Low-voltage circuit continuity and resistance measurement:

- -Circuit resistance measurement (<1999Ω) with <15mA current.
- -Quick sound signal if circuit resistance is below 30.

Capacitance measurement during the RISO measurement.

Measurement of alternating and direct voltages in the 0...600V range.

990 memory cells and wireless data transmission to a computer using the USB - OR-1 adapted.

Power supply: 4 AA or rechargeable batteries, monitoring of power supply voltage.

$Continuity\ measurement\ of\ protective\ and\ equipotential\ conductors\ with\ the\ 200 mA\ current$

Measuring range according to EN 61557-4: $0,10...1999\Omega$

Range	Resolution	Accuracy
0,0019,99Ω	0,01Ω	1/29/ 2 dinita)
20,0199,9Ω	0,1Ω	±(2% m.v. + 3 digits)
2001999Ω	1Ω	±(4% m.v. + 3 digits)

Voltage on open terminals: <8V.

Output current at R $< 2\Omega$: $I_{sc} > 200$ mA.

Compensation of test leads' resistance.

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Bidirectional current flow, average resistance value is displayed.

Low-voltage and resistance measurement

Range	Resolution	Accuracy
00,0199,9Ω	0,1Ω	±(3% m.v. + 3 digits)
2001999Ω	1Ω	

Voltage on open terminals: < 8V.

Current for closed terminals 5 mA < I $_{\rm SC}$ << 15 mA .

Sound signal and green LED on when measured resistance < $30\Omega \pm 50\%$.

Compensation of test leads' resistance.

Capacitance measurements

Range	Resolution	Accuracy
1999nF	1nF	±(5% m.v. +5 digits)
1,009,99µF	0,01µF	

Capacitance value displayed during the R_{ISO} measurement.

For test voltages below 100V and measured resistance below $10M\Omega$, unspecified capacitance measurement error.

"m.v." = "measured value".

Insulation resistance measurement:

Measuring range according to EN 61557-2 for U_{s_1} =50V: $50k\Omega$...250,0M Ω

Range	Resolution	Accuracy
0,0999,9kΩ	0,1kΩ	
1,0009,999ΜΩ	0,001ΜΩ	±(3%.m.v + 8 digits) [±(5% m.v. + 8 digits)]*
10,099,99ΜΩ	0,01ΜΩ	[±(5% m.v. + 8 digits)]*
100,0250,0ΜΩ	0,1ΜΩ	

Measuring range according to EN 61557-2 for U_N =100V: 100k Ω ...500,0M Ω

Resolution	Accuracy
0,1kΩ	
0,001ΜΩ	±(3%.m.v + 8 digits) [±(5% m.v. + 8 digits)]*
0,01ΜΩ	[±(5% m.v. + 8 digits)]*
0,1ΜΩ	
	0.1kQ 0.001MQ 0.01MQ

Measuring range according to EN 61557-2 for U_N =250V: 250k Ω ...2000,0M Ω

Range	Resolution	Accuracy
0,0999,9kΩ	0,1kΩ	
1,0009,999ΜΩ	0,001ΜΩ	
10,099,99ΜΩ	0,01MΩ	±(3%.m.v + 8 digits) [±(5% m.v. + 8 digits)]*
100,0999,9ΜΩ	0,1ΜΩ	2 (0.00)
1000,02000,0ΜΩ	1ΜΩ	

*- for the WS-04 lead

Measuring range according to EN 61557-2 for U $_{_{\! N}}$ =500V: $500k\Omega$...20G $\!\Omega$

Range	Resolution	Accuracy
0,0999,9kΩ	0,1kΩ	
1,0009,999ΜΩ	0,001ΜΩ	±(3%.m.v + 8 digits)
10,099,99ΜΩ	0,01ΜΩ	[±(5% m.v. + 8 digits)]*
100,0999,9ΜΩ	0,1ΜΩ	
1000,09999,0ΜΩ	1ΜΩ	±(4%.m.v + 6 digits)
10,020,0GΩ**	10ΜΩ	[±(6%.m.v + 6 digits)]*

Measuring range according to EN 61557-2 for $U_M = 1000V: 1000k\Omega...100,0G\Omega$

Range	Resolution	Accuracy
0,0999,9kΩ	0,1kΩ	
1,0009,999ΜΩ	0,001ΜΩ	
10,099,99ΜΩ	0,01ΜΩ	±(3%.m.v + 8 digits)
100,0999,9ΜΩ	0,1ΜΩ	
1000,09999,9MΩ	1ΜΩ	
10,099,99GΩ	0,01GΩ	±(4%.m.v + 6 digits)
100GΩ	0,1GΩ	

Measurement of AC/DC voltage

Range	Resolution	Accuracy
0,0299,9V	0,1V	±(2%m.v. + 6 digits)
300600V	1V	±(2%m.v. + 2 digits)
Frequency range: 45, 45Hz		

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Specifications AMIC-30

Electric security:

Type of insulation Doble, según EN 61010-1 e IEC 61557

Measurement category CAT IV 600Vde acuerdo a EN 61010-1

Protection class acc. to EN 60529 IP67

Other technical data:

Power suply 4 baterías alcalinas o juego de baterías Ni-MH

Weight 1kg

Dimensions 220 x 100 x 60 mm

Standard accesories:

"Crocodile" clip K02; blue

Test lead with banana plug; 1,2m; red Test lead with banana plug; 1,2m; blue

Shielded test lead with banana plug;

1,2m; black

 $Receiver-interface \, for \, radio \, transmission$

OR1 (USB)

 $Pin\ probe\ with\ banana\ connector;\ black$

Pin probe with banana connector; red

Carrying case M6

Hanging straps

Handle to suspend the meter

Certificate calibration

Battery set

Optional accesories:

Test lead with banana plug 5m; red

Test lead with banana plug 5m; blue

Shielded test lead with banana plug; 5m; black

Test lead with banana plug 1,2m; blue

"Crocodile" clip K02; red

"Crocodile" clip K01; black

"Crocodile" clip K02; blue

Pin probe with banana connector; blue

Adapter WS-04 with UNI-Schuko

Software for creation of documentation from

electrical measurements



Receiver – interface for radio transmission OR1 (USB).