

AMIC-10

HIGHEST ACCURACY & LOWEST COST



Insulation Resistance Meter

AMIC-10

Insulation resistance measurement: 50, 100, 250, 500 or 1000 V. **10GΩ**.

Low voltage resistance measurement.

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

Capacitance measurements.

amperis

www.amperis.com

 AMPERIS PRODUCTS S.L
Agricultura,34
27003, Lugo, Spain

 **Contact**

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11
info@amperis.com | www.amperis.com

Main characteristics are the following:

Insulation resistance measurement:

- Measurement voltage: 50, 100, 250, 500 or 1000 V
- Continuous indication of insulation resistance or leakage current
- Automatic discharge of capacitance of tested object after the insulation resistance measurement
- Acoustic signaling of five-second periods to facilitate obtaining time characteristics
- Indication of actual test voltage during the measurement
- Protection against measuring live objects
- Three-lead 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 R_{ISO} measurement

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

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

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

Measuring range according to EN 61557-4: 0,10...1999Ω

Range	Resolution	Accuracy
0,00...19,99Ω	0,01Ω	±(2% m.v. + 3 digits)
20,0...199,9Ω	0,1Ω	
200...1999Ω	1Ω	±(4% m.v. + 3 digits)

Voltage on open terminals: <8V
Output current at R <2Ω: I_{SC} >200mA.
Compensation of test leads' resistance.
Unidirectional current flow.

Low-voltage and resistance measurement

Range	Resolution	Accuracy
00,0...199,9Ω	0,1Ω	±(3% m.v. + 3 digits)
200...1999Ω	1Ω	

Voltage on open terminals: <8V.
Current for closed terminals 5mA < I_{SC} < 15mA.
Sound signal and green LED on when measured resistance < 30Ω ± 50%.
Compensation of test leads' resistance.

Capacitance measurements

Range	Resolution	Accuracy
1...999nF	1nF	±(5% m.v. + 5 digits)
1,00...9,99μF	0,01μF	

Capacitance value displayed during the R_{ISO} measurement.
For test voltages below 100V and measured resistance below 10MΩ, unspecified capacitance measurement error.

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

Insulation resistance measurement:

Measuring range according to EN 61557-2 for U_N = 50V: 50kΩ...250,0MΩ

Range	Resolution	Accuracy
0,0...999,9kΩ	0,1kΩ	±(3% m.v. + 8 digits)
1,000...9,999MΩ	0,001MΩ	
10,0...99,99MΩ	0,01MΩ	
100,0...250,0MΩ	0,1MΩ	

Measuring range according to EN 61557-2 for U_N = 100V: 100kΩ...500,0MΩ

Range	Resolution	Accuracy
0,0...999,9kΩ	0,1kΩ	±(3% m.v. + 8 digits)
1,000...9,999MΩ	0,001MΩ	
10,0...99,99MΩ	0,01MΩ	
100,0...500,0MΩ	0,1MΩ	

Measuring range according to EN 61557-2 for U_N = 250V: 250kΩ...2000,0MΩ

Range	Resolution	Accuracy
0,0...999,9kΩ	0,1kΩ	±(3% m.v. + 8 digits)
1,000...9,999MΩ	0,001MΩ	
10,0...99,99MΩ	0,01MΩ	
100,0...999,9MΩ	0,1MΩ	
1000,0...2000,0MΩ	1MΩ	±(4% m.v. + 6 digits)

Measuring range according to EN 61557-2 for U_N = 500V: 500kΩ...5000,0MΩ

Range	Resolution	Accuracy
0,0...999,9kΩ	0,1kΩ	±(3% m.v. + 8 digits)
1,000...9,999MΩ	0,001MΩ	
10,0...99,99MΩ	0,01MΩ	
100,0...999,9MΩ	0,1MΩ	
1000,0...5000,0MΩ	1MΩ	±(4% m.v. + 6 digits)

Measuring range according to EN 61557-2 for U_N = 1000V: 1000kΩ...10,0GΩ

Range	Resolution	Accuracy
0,0...999,9kΩ	0,1kΩ	±(3% m.v. + 8 digits)
1,000...9,999MΩ	0,001MΩ	
10,0...99,99MΩ	0,01MΩ	
100,0...999,9MΩ	0,1MΩ	
1000,0...5000,0MΩ	1MΩ	±(4% m.v. + 6 digits)
5,0...10,0GΩ	0,01GΩ	

Measurement of AC/DC voltage

Range	Resolution	Accuracy
0,0...299,9V	0,1V	±(2% m.v. + 6 digits)
300...600V	1V	±(2% m.v. + 2 digits)

Frequency range: 45...65Hz.



AMPERIS PRODUCTS S.L
Agricultura,34
27003, Lugo, Spain



Contact

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11
info@amperis.com | www.amperis.com

AMIC-10 Specifications

Electric security:

Type of insulation	Double, acc. to EN 61010-1 and IEC 61557
Measurement category	CAT IV 600V acc. to EN 61010-1
Protection class acc. to EN 60529	IP67

Other technical data:

Power supply	4 alkaline batteries or battery package Ni-MH
Weight	1kg
Dimensions	220 x 100 x 60 mm

Standard accesories:

"Crocodile" clip K01; black
Test lead with banana plug; 1,2m; red
Test lead with banana plug; 1,2m; blue
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



AMPERIS PRODUCTS S.L
Agricultura,34
27003, Lugo, Spain



Contact

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11
info@amperis.com | www.amperis.com