

# 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

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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<sub>ISO</sub> 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	

Voltage on open terminals: <8V  
 Output current at R <2Ω: I<sub>sc</sub> >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<sub>SC</sub> << 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<sub>ISO</sub> 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<sub>N</sub> = 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<sub>N</sub> = 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<sub>N</sub> = 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	

Measuring range according to EN 61557-2 for U<sub>N</sub> = 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<sub>N</sub> = 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.

## AMIC-10 Specifications

### Electric security:

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

### Other technical data:

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

### Standard accessories:

- “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 accessories:

- 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