



Insulation



CAT IV
600V

IP 67



MIC-30 meter allows for automatic measurement of resistance for all combinations or any pair of conductors in a power socket.

Standard accessories of the meter:

- Test lead with banana plug; 1,2m; red
- Test lead with banana plug; 1,2m; blue
- Test lead 1,2m black, shielded
- "Crocodile" clip K02; blue
- 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
- Sonel Reader software
- Batteries
- Calibration certificate

Measurement of insulation resistance

Measurement range in acc. with IEC 61557-2 for:

- $U_n=50V$: 50kΩ...250.0MΩ
- $U_n=100V$: 100kΩ...500.0MΩ
- $U_n=250V$: 250kΩ...2.000GΩ
- $U_n=500V$: 500kΩ...20.00GΩ
- $U_n=1000V$: 1000kΩ...100.00GΩ

| Display range | Resolution |
|---|------------|
| 0.0...999.9kΩ | 0.1kΩ |
| 1.000...9.999MΩ | 0.001MΩ |
| 10.00...99.99MΩ | 0.01MΩ |
| 100.0...250.0MΩ (for $U_n=50V$) | 0.1MΩ |
| 100.0...500.0MΩ (for $U_n=100V$) | 0.1MΩ |
| 100.0...999.9MΩ (for $U_n \geq 250V$) | 0.1MΩ |
| 1.000...2.000GΩ (for $U_n=250V$) | 0.001GΩ |
| 1.000...9.999GΩ (for $U_n \geq 500V$) | 0.001GΩ |
| 10.00...20.00GΩ (for $U_n \geq 500V$) ** | 0.01GΩ |
| 10.00...99.99GΩ (for $U_n=1000V$) | 0.01GΩ |
| 100.0GΩ (for $U_n=1000V$) | 0.1GΩ |

*for the WS-04 adapter

**for the WS-04 adapter, range up to 10GΩ

• Measurements for the WS-04 adapter with voltage up to

Measurement of capacitance

| Display range | Resolution |
|---------------|------------|
| 1...999nF | 1nF |
| 1.00...9.99μF | 0.01μF |

- Measurement result displayed after R_{iso} measurement
- For measurement voltages lower than 100 V and the measured capacitance measurement accuracy is not specified

Measurement of protective connection and equipotential bonding continuity with current 200 mA

Measurement range in acc. with IEC 61557-4: 0.10...1999

| Range | Resolution |
|-------|------------|
| | |

Insulation resistance measurements:

- selectable test voltage: 50, 100, 250, 500, 1000 V or any within range 50...1000 V with 10 V step,
- automatic measurement in sockets with the use of the UNI-Schuko adapter with the capability of configuring pairs of measured conductors,
- continuous indication of the measured insulation resistance or leakage current value,
- automatic discharge of capacitance of the measured object after finishing the insulation resistance measurement,
- acoustic signalling of 5-second time intervals to facilitate capturing time characteristics,
- selection of T_1 , T_2 , T_3 times from the range of 1...600 s for the measurement of one or two absorption coefficients,
- indication of actual measurement voltage during measurement,
- protection against measurements of energised objects,
- three-lead measurement,
- measurement of leakage current,
- measurement of capacitance during R_{iso} measurement.

Measurement of protective connection and equipotential bonding continuity:

- with current ≥ 200 mA in accordance with the EN 61557-4 standard, bidirectional flow of current.

Additionally:

- Low-voltage measurement of circuit continuity and resistance.
- Measurement of direct and alternating voltages within the range of 0...600 V.
- Memory of 990 cells (11880 records), data transfer to a PC over the OR-1 wireless



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Insulation resistance measurements:

- selectable test voltage: 50, 100, 250, 500 or 1000 V,
- continuous indication of the measured insulation resistance value,
- automatic discharge of capacitance of the measured object after finishing the insulation resistance measurement,
- acoustic signalling of 5-second time intervals to facilitate capturing time characteristics,
- indication of actual measurement voltage during measurement,
- protection against measurements of energised objects,
- three-lead measurement,
- **measurement of capacitance during R_{iso} measurement.**

Measurement of protective connection and equipotential bonding continuity:

- with current ≥ 200 mA in accordance with the EN 61557-4 standard, bidirectional flow of current.

Additionally:

- Low-voltage measurement of circuit continuity and resistance.**
- Measurement of direct and alternating voltages within the range of 0...600 V.**
- LCD and keyboard backlit.**



Besides the insulation resistance measurements, MIC-10 meter allows for the measurement of protective connection and equipotential bonding continuity in accordance with the EN 61557 standard.

Standard accessories of the meter

- Test lead with banana plug; 1,2m; black
- Test lead with banana plug; 1,2m; red
- "Crocodile" clip K01; black
- Pin probe with banana connector; black
- Pin probe with banana connector; red
- Carrying case M6
- Hanging straps
- Handle to suspend the meter
- Calibration certificate
- Batteries

Measurement of insulation resistance

Measurement range in acc. with IEC 61557-2 for:

- $U_t=50V$: **50kΩ...250.0MΩ**
- $U_t=100V$: **100kΩ...500.0MΩ**
- $U_t=250V$: **250kΩ...2.000GΩ**
- $U_t=500V$: **500kΩ...5.00GΩ**
- $U_t=1000V$: **1000kΩ...10.00GΩ**

| Display range | Resolution |
|--|------------|
| 0.0...999.9kΩ | 0.1kΩ |
| 1.000...9.999MΩ | 0.001MΩ |
| 10.00...99.99MΩ | 0.01MΩ |
| 100.0...250.0MΩ (for $U_t=50V$) | 0.1MΩ |
| 100.0...500.0MΩ (for $U_t=100V$) | 0.1MΩ |
| 100.0...999.9MΩ (for $U_t \geq 250V$) | 0.1MΩ |
| 1.000...2.000GΩ (for $U_t=250V$) | 0.001GΩ |
| 1.000...5.000GΩ (for $U_t \geq 500V$) | 0.001GΩ |
| 5.00...10.00GΩ (for $U_t=1000V$) | 0.01GΩ |

Measurement of capacitance

| Display range | Resolution |
|---------------|------------|
| 1...999nF | 1nF |
| 1.00...9.99μF | 0.01μF |

- Measurement result displayed after the R_{iso} measurement
- For measurement voltages lower than 100 V and the capacitance measurement error is not specified

Measurement of protective connection and with the current of 200 mA

Measurement range in acc. with IEC 61557-4: 0.1

| Range | Resolution |
|---------------|------------|
| 0.00...10.000 | 0.001 |