

Catalogue copy UNILAP ISO X Multifunctional Insulation Tester



Main features:

- External voltage measurements up to 600V DC/AC
- Insulation resistance measurements with or without **GUARD-technique** up to 30 GOhm or 3 TOhm
- Nominal voltages between 50V and 1000V, fixed or variable in 10V steps
- **Resistance measurements** with DC-currents ($I_k > 200\text{mA}$) and **automatic polarity change** up to 3 kOhm (100kOhm on analog display)
- **Equivalent leakage current measurement** (I_{PE}) for checking electrical consumers "after repairs" as per DIN VDE 0701
- Measurement of the **local insulation resistance** of floors or walls with optional probe.
- Permanently stored settings (e.g. limits)

Specifications:

Voltage measurement with automatic AC/DC detection

Digital display: 1 ... 1000 V
 Measuring range: 1 ... 600 V ($\pm 1\%$ rdg+ 1 dgt)
 Impedance: approx. 600 k Ω
 Max. overload: $U_{eff} = 600\text{ V}$ external voltage

Insulation resistance (IEC 61557-2):

Analog display: 5 k Ω ... 1 T Ω (± 1 display segment)
 Digital display: 10 Ω ... 30 G Ω ($\pm 3\%$ rdg) without GUARD
 1 Ω ... 3 T Ω with GUARD

Measuring voltage:

Variable from 50 V to 1000 V DC in 10 V steps
 preset values: 100 V - 250 V - 500 V - 1000 V
 Measuring current: 1 mA (250V – 1000V) DC
 2,5 mA (50V – 250V) DC
 Short circuit current: < 5 mA DC
 Measuring rate: approx. 2 values/s
 Max. overload: 1,2 x nominal voltage
 (measurement will not be started)
 U_{eff} : 600 V external voltage

General:

Protection type: IP 56 according to DIN VDE 40050
 Safety: complies with safety class II according to IEC 61010 and EN 61010
 Test voltage: 4 kV according to IEC 348
 Installation category: 600 V Cat. II, pollution degree 2
 Dimensions: 240 x 220 x 90 mm (LxWxH),
 Weight: appr. 1,8 kg without accessories
 Delivery contents: 2 safety measuring leads, 1 GUARD measuring lead, 1 crocodile clip, carrying belt, batteries, operating instructions in carrying case

Resistance Measurement with automatic polarity change:

Digital display: 10m Ω ... 30 k Ω ($\pm 5\%$ rdg)
 Short circuit current: > 200 mA
 Compensation of test lead resistance is possible.

Equivalent leakage current measurement:

Signal: 40 V, 50 Hz sinusoidal
 Computation: to 1,06x I_N as per DIN VDE 0701 part 1
 Range: 0,12 mA...29,99mA
 Pre-set limit: > 7mA (selectable: 0...99,9mA)
 Max. overload: $U_{eff}=600\text{V}$

Local insulation resistance measurement:

Signal: 40 V, 50 Hz sinusoidal
 Short circuit current: <5mA
 Digital display: 10m Ω ... 3 k Ω ($\pm 3\%$ rdg) without GUARD
 3 M Ω ... 30 M Ω ($\pm 3\%$ rdg) with GUARD
 Pre-set limit: < 50kOhm
 Max. overload: $U_{eff}=600\text{V}$

Designation

UNILAP ISO X
 UNILAP ISO X with RS232
 Interface & Accu-SET 600mAh
 UNILAP ISO X with Docu-Pack

Order No.

A 1865 06211
 A 1865 06212
 A 1865 06215