



## Functions

### Insulation resistance RISO

Operating range of use @ EN 61557-2: 0,100 MΩ ÷ Rmax\*

Measuring range	Resolution	Reference error	Operating error
0,100 MΩ ÷ 9,999 MΩ	0,001 MΩ	±(2 % of R + 10 D)	±(3 % of R + 20 D)
10,00 MΩ ÷ 99,99 MΩ	0,01 MΩ	±(2 % of R + 10 D)	±(3 % of R + 20 D)
100,0 MΩ ÷ 999,9 MΩ	0,1 MΩ	±(2 % of R + 10 D)	±(3 % of R + 20 D)
1,000 GΩ ÷ Rmax*	0,001 GΩ	±(4 % of R + 15 D)	±(5 % of R + 25 D)

\* Value of Rmax depends on the nominal test voltage:

Nominal test voltage 50 V ÷ 99 V Rmax = 1,999 GΩ

Nominal test voltage 100 V ÷ 249V Rmax = 3,999 GΩ

Nominal test voltage 250 ÷ 1000 V Rmax = 9,999 GΩ

Nominal test voltage Un: 50 V ÷ 1000 V, step 1 V

Open-circuit voltage: (-0% / + 10%) of the Un

Nominal test current: ≥ 1 mA (Utest > Un)

Short-circuit current: < 3 mA

Automatic discharge of tested object: yes

Number of measurements about 250 (with new alkaline cells)

### Varistor surge protection devices USPD

Measuring range (V)	Resolution (V)	Reference error	Operating error
40 ÷ 1050	1	±(2 % of R + 2 D)	±(3 % of R + 3 D)

Measuring principle: Increasing DC voltage and simultaneously measures the current through the SPD.

**DC and AC voltage** (frequency range 45 ÷ 65 Hz)

Measuring range (V)	Resolution (V)	Reference error	Operating error
0 ÷ 600	1	±(2 % of R + 2 D)	±(3 % of R + 3 D)

Notes to the parameters stated in this chapter:

- a) Measured AC values are TRMS.
- b) R... Reading, D... Digit.

## General data

Power supply	4x AAA alkaline battery 1,5 V or NiMH accumulator 1,2 V
Over voltage class	CAT III / 300V or CAT II / 600 V
Pollution degree	2
Protective class	II (double insulation)
Degree of protection	IP 43
Dimensions	about 260x70x40 mm
Weight including batteries and movable test tip	about 0,36 kg
Reference conditions	ambient temperature (23 ± 2) °C relative humidity 40 ÷ 60 % (noncondensing) mains voltage 230 V ± 2 % / 50 Hz ± 1 % instrument's position arbitrary
Operating conditions	ambient temperature 0 ÷ 40 °C relative humidity max. 85 % (noncondensing) mains voltage 190 ÷ 260 V / 45 ÷ 65 Hz instrument's position arbitrary
Storage conditions	ambient temperature -10 ÷ +70 °C relative humidity max. 90 % (-10 ÷ 40) °C (noncondensing) max. 80 % (40 ÷ 70) °C instrument's position arbitrary