## Characteristic Values

## Measurement of Insulation Resistance

Nominal Range per EN 61557-2: 0.100 MΩ – Rmax\*

Range	Reso- lution	Intrinsic Uncertainty	Measuring Uncertainty
$0.100$ to $9.999~\text{M}\Omega$	0.001 MΩ	(2% rdg. + 10 d)	(3 % rdg. + 20 d)
10.00 to 99.99 M $\Omega$	0.01 MΩ	(2% rdg. + 10 d)	(3 % rdg. + 20 d)
100.0 to 999.9 M $\Omega$	0.1 MΩ	(2% rdg. + 10 d)	(3 % rdg. + 20 d)
1.000 GΩ Rmax*	0.001 GΩ	(4 % rdg. + 15 d)	(5 % rdg. + 25 d)

<sup>\*</sup> The Rmax value depends on the selected test voltage:

Nominal voltage of 50 to 99 V  $Rmax = 1.999 G\Omega$ Nominal voltage of 100 to 249 V  $Rmax = 3.999 G\Omega$ Nominal voltage of 250 to 1000 V  $Rmax = 9.999 G\Omega$ 

Nominal measuring

voltage 50 to 1000 V

adjustable in steps of 1 V

Measuring voltage -0%/+10% of nominal voltage

Nominal measuring

current ≥ 1 mA (where Umes > Unom)

Short-circuit current < 3 mA

Automatic discharging

of the DUT Yes

Number of

measurements approx. 250

(with new alkaline batteries)