

Meas. Qty.	U_{ISO}				Range	Measuring Range	Resolution	Open-Circuit Voltage U_{0max}	Test Current	Intrinsic Uncertainty	Measuring Uncertainty	Overload Capacity
R_{ISO}	50 V	100 V	250 V / 500 V	1000 V	100 k	10 k Ω ... 99.9 k Ω	0.1 k	50 V/100 V: 1.25 U_{ISO} 250 V / 500 V / 1000 V: 1.1 U_{ISO}	$I_N = 1$ mA $I_K \leq 5$ mA	$\pm(5\%$ rdg. + 3 d)	$\pm(7\%$ rdg. + 3 d)	1000 V AC/DC TRMS
					1 M	100 k Ω ... 999 k Ω	1 k					
					10 M	1.00 M Ω ... 9.99 M Ω	10 k					
					100 M	10.0 M Ω ... 99,9 M Ω	100 k					
					1 G	100 M Ω ... 999 M Ω	1 M					
					10 G	1.00 G Ω ... 9.99 G Ω	10 M					
					100 G	10,0 G Ω ... 99.9 G Ω	100 M					
					1 T	100 G Ω ... 999 G Ω	1 G					
$U_{AC/DC}$					100 V	10.0 V ... 99.9 V	0.1 V	—	—	$\pm(2.5\%$ rdg. + 3 d)	$\pm(5\%$ rdg. + 3 d)	1000 V AC/DC TRMS ³⁾
					1000 V	100 V ... 999 V	1 V					
R_{LO}					10 Ω	0.17 ... 9.99 Ω	0.01 Ω	4 V < U_0 < 6 V	200 mA $\leq I$ $I \leq 260$ mA ⁴⁾	$\pm(2.5\%$ rdg. + 3 d)	$\pm(5\%$ rdg. + 3 d)	1000 V AC/DC TRMS
R	Display range as of 01.0 Ω				100 Ω	10.0 ... 99.9 Ω	0.1 Ω	U_0 max. 15 V	1 mA $\leq I$ $I \leq 1.3$ mA	$\pm(2.5\%$ rdg. + 3 d)	$\pm(5\%$ rdg. + 3 d)	1000 V AC/DC TRMS
					1 k Ω	100 ... 999 Ω	1 Ω					
					10 k Ω	1.00 ... 9.99 k Ω	10 Ω					

1) the indicated accuracy is only achieved with the shielded high-resistance measuring cable KS-C (article no. Z541F)* as optional accessory.

4) up to 5 Ω

2) does not conform to DIN EN 61557-2

3) display range up to 1.2 kV

Breakdown Voltage (Uramp)

Parameter	Range	Intrinsic Uncertainty	Measuring Uncertainty
Voltage range	100 ... 1000 V	$\pm(10\%$ rdg. + 8 d)	$\pm(15\%$ rdg. + 10 d)
Rise time	5 ... 30 s	—	—
Measuring duration	1 ... 120 s / auto / permanent measurement	—	—

Polarization Index (PI), Absorption Ratio (DAR)

	t1	t2	Limit
PI	01:00 min	10:00 min	> 4.0 min / > 3.0 min / > 2.0 min / > 1.5 min / > 1.1 min / > 1.0 min
DAR	00:30 min	01:00 min	> 1.60 min / > 1.25 min

PI and DAR are calculated values. The specifications of the insulation measurement apply.

Reference Conditions

Reference temperature	+ 23 °C \pm 3 K
Relative humidity	40 ... 75 %
Measured quantity frequency	45 Hz ... 65 Hz
Measured quantity waveshape	Sine, deviation between TRMS and rectified value < 1 %
Battery voltage	9.5 V \pm 0.1 V
Test resistor	10 M Ω \pm 1 %