

Alternating Voltage (TRMS)

Range	Resolution	Intrinsic Uncertainty	Measuring Uncertainty
24 to 260 V	1 V 0.1 V	$\pm(2\% \text{ rdg.} + 2 \text{ d})$	$\pm(3\% \text{ rdg.} + 3 \text{ d})$

Frequency range: 48 to 52 Hz

¹ Display for brief representation

² Display for detailed representation

Key:

- a) The measuring uncertainties specified here for fault loop impedance, line impedance and short-circuit current are only valid if line voltage is stable during measurement and if no other electrical circuits parallel to the measured circuit are in use.
- c) rdg. means reading, i.e. measured value, d = digits (i.e. number of the decimal place with the least significance)

Reference Conditions

Temperature	23 \pm 2 °C
Relative humidity	40 to 60%
Line voltage	230 V \pm 2% / 50 Hz \pm 1%
Device position	any

Ambient Conditions

Operating Conditions

Operating temperature	0 to 40 °C
Relative humidity	max. 85%, no condensation allowed
Line voltage	190 to 260 V / 48 to 52 Hz
Device position	any

Storage Conditions

Temperature	-10 to +70 °C
Relative Humidity	max. 90% at -10 to +40 °C max. 80% at +40 to +70 °C
Device position	any

Power Supply

Batteries	4 ea. AAA (LR03), 1.5 V alkaline or 1.2 V NIMH (with at least 750 mAh)
Number of measurements	with batteries at 800 mAh: approx. 3,000 measurements

Electrical Safety

Measuring category	with safety cap applied to test probe: CAT III 300 V without safety cap applied to test probe: CAT II 300 V
Pollution degree	2
Protection class	II
Fuse	SIBA ceramic fuse 6.3 mm x 32 mm, F1 A/600 V switching capacity 50 kA at 600 V

Electromagnetic Compatibility (EMC)

Interference emission	EN 61326-1:2006 class B
Interference immunity	EN 61326-1:2006

Mechanical Design

Display	OLED, multicolored, graphic
Protection	Housing: IP 43 per DIN VDE 0470 part 1/EN 60529
Dimensions	approx. 260 x 70 x 40 mm
Weight	approx. 0.36 kg with batteries

Scope of delivery

- 1 Test instrument with mobile test probe
- 4 Batteries (AAA)
- 1 Pouch
- 1 Condensed operating instructions
- 1 CD ROM with operating instructions in available languages
- 1 Factory calibration certificate

Order Information

Description	Type	Article number
Loop Resistance Measuring Instrument	METRALINE ZCHECK	M507A
Broad-range charger for charging optionally available batteries, e.g. Z507B, inserted in the METRALINE ISO-RCD-Z CHECK Input*: 100 to 240 V AC \pm 10%; Output: 9 V DC, 180 mA	Charger METRALINE CHECK Series	Z507A
4 rechargeable batteries (AAA) for METRALINE ISO-RCD-Z/CHECK	Akku-Set METRALINE CHECK Series	Z507B

* with plug adapter for the following countries: EU, UK, US, AU