

METRALINE Z^{CHECK}

环路电阻测量仪器

3-349-696-03

3/4.13

METRALINE Z^{CHECK} 可用于测量以下项目：

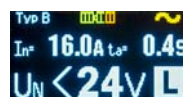
- 故障环路阻抗含有短路电流
- 故障环路阻抗带有短路电流
没有断开RCCB时
- 线路阻抗含有短路电流
- 线电压
- 相位检测

特点

- 可以显示常用保护装置的列表
- 可以在概要和详细信息间切换
- 数字显示，彩色背光OLED显示
- LED用于测量值显示
- 获得专利的固定测试探针的方法
- 紧凑坚固



测量结果



Phase Detection (L)



Table Display



应用

METRALINE Z^{CHECK} 允许用于测量阻抗的类型，标称电流和断路时间的评估。各种保护装置的参数以表格的形式存储在设备里

符合规范和标准

IEC 61010-1/-031 DIN EN 61010-1/-031 VDE 0411-1/-031	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements Part 31: Safety requirements for hand-held probe assemblies for electrical measurement and test
IEC 61557-1/-3 DIN EN 61557-1/-3 VDE 0413-1/-3	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures Part 1: General requirements Part 3: Loop resistance
IEC 61326-1 DIN EN 61326-1	Electrical equipment for measurement, control and laboratory use – EMC requirements Part 1: General requirements
DIN EN 60529 VDE 0470-1	Degrees of protection provided by enclosures (IP code)

技术参数

故障环路阻抗 / 线路阻抗

额定量测依据 EN 61557-3: 0.27Ω- 200 Ω

量程 (Ω)	分辨率 (Ω)	固有不确定度	测量不确定度
0.00 - 4.99	0.01	±(3% rdg. + 5 d)	±(4 % rdg. + 7 d)
5.0 - 49.9	0.1	±(3% rdg. + 3 d)	±(4 % rdg. + 4 d)
50 - 200	1	±3% rdg.	±4 % rdg.

电压范围 :190- 260 V / 48- 52 Hz

负载电阻 : 50 Ω (variable number of pulses at 10 ms)

故障环路阻抗没有断开RCCB

用于额定电流在100mA或300mA的RCCB测量

额定量测依据 EN 61557-3: 0.8 Ω-200 Ω

量程 (Ω)	分辨率 (Ω)	固有不确定度	测量不确定度
0.0 to 4.9	0.1 Ω	±(5% rdg. + 2 d)	±(6% rdg. + 2 d)
50 to 200	1 Ω	±7% rdg.	±8 % rdg.

电压范围 :190- 260 V / 48- 52 Hz

负载电阻 : 50 Ω (variable number of pulses and pulse width)

短路电流

量程	分辨率	固有不确定度	测量不确定度
0 to 999 A	1 A	取决于环路阻抗 测量误差 ±1 d	取决于环路阻抗 测量误差 ±1 d
1.0 to 9.9 kA	0.1 kA		
10 to 23 kA	1 kA		

METRALINE Z^{CHECK}

环路电阻测量仪器

交流电压 (TRMS)

量程	分辨率	固有不确定度	测量不确定度
24 - 260 V	1 V ¹ 0.1 V ²	±(2 % rdg. + 2 d)	±(3 % rdg. + 3 d)

频率范围 : 48 - 52 Hz

¹ 短时显示

² 细节显示

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)

参考条件

Temperature	23 ± 2 °C	温度
Relative humidity	40 to 60 %	相对湿度
Line voltage	230 V ± 2 % / 50 Hz ± 1 %	电压
仪器摆放位置	任意	

环境条件

操作条件

操作温度 temperature	0 to 40 °C	相对湿度
Relative humidity	max. 85 %, no condensation allowed	
Line voltage	190 to 260 V / 48 to 52 Hz	电压
仪器摆放位置	任意	

存储条件

Temperature	-10 to +70 °C	温度
Relative Humidity	max. 90 % at -10 to +40 °C max. 80 % at +40 to +70 °C	相对湿度

仪器摆放位置 任意

电源

Batteries 电池	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
测量次数	800mAh电池, 大约可测试3000次

电气安全

Measuring category	with safety cap applied to test probe: CAT III 300 V
电气安全等级	without safety cap applied to test probe: CAT II 300 V
Pollution degree	2 污染等级
Protection class	II 保护等级
Fuse	SIBA ceramic fuse 6.3 mm x 32 mm, F1 A/600 V
保险	switching capacity 50 kA at 600 V

电磁兼容 (EMC)

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

产品设计

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

清单

- 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	
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 ±10%; Output: 9 V DC, 180 mA	Charger METRALINE CHECK Series	
4 rechargeable batteries (AAA) for METRALINE ISO-RCD-Z/CHECK	Akku-Set METRALINE CHECK Series	

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

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GMC INSTRUMENTS

