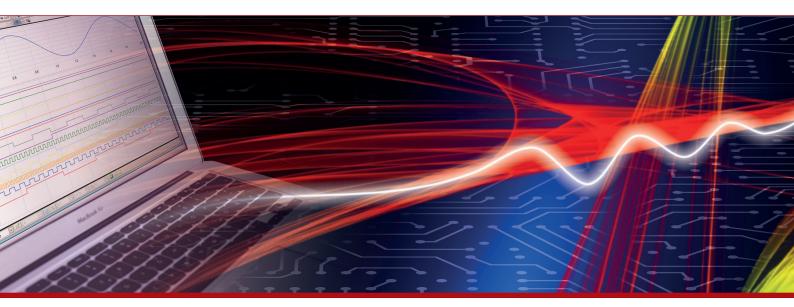


Product Datasheet - Technical Specifications



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Mesh resistance measuring clamp EmCheck® MWMZ II

Applications

The mesh resistance measuring clamp EmCheck® MWMZ II is an essential measuring instrument for anybody for whom intuitive statements on the quality of the installed shield and earth measures are not enough.

The measuring clamp can be used for:

- Measuring shield loop resistances of bus cables or measuring system cables, for example. Good shield loop resistances should be in a range up to approx. 0.6 Ohm. An adequately low shield loop resistance is a basic requirement for a good shield effect.
- Measuring the PE cables laid pursuant to DIN EN 50310 to achieved good equipotential bonding. Good PE loop resistances should be in a range up to approx. 0.3 Ohm. An adequately low PE loop resistance is a basic requirement for ensuring a good signal reference potential.
- Measuring the quality of the shield on the motor cable of frequency controlled motors and the resistances in the reverse current path.

Measurement results

The clamp consists of two coils. The first coil induces a voltage of a defined level and with a defined frequency (50, 60, 128 or 2083 Hz).

The second coil measures the current induced by coil one in the adjusted frequency range. The ration of these two values can then be used to find and display the alternating current resistance (impedance). The measurement is made without interruption and can also be carried out on conductors which already carry current during normal operation. If the operating currents are in the frequency range of the clamp and thus falsify the measurement result, the clamp will indicate a "noise" warning.

Technical data

• Display:	OLED 152 segments, active
	surface 48 x 39 mm
Max. ø of the loop:	35 mm
• Data storage:	300 measurements with
	timestamp
Power supply:	4x 1,5 V Alkaline batteries, LR6
	(AA) or 4x Ni-MH batteries
Interference emitter:	NF EN 61326-1: 2006
Interference immunity:	NF EN 61326-1: 2006
Max. overload capacity:	Maximum continuous current
	100 A (50/60 Hz), briefly (< 5 s)
	200 A (50/60 Hz)
Dimensions (H x W x D):	262 x 95 x 55 mm
• Weight:	935 g (incl. batteries)
• Seal:	IP 40, Group III device
• Category:	IEC 61010 600 V CAT IV

50, 60, 128 or 2083 Hz

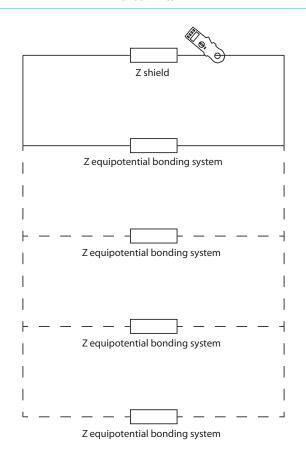
Measuring characteristics

Measuring frequency:

Room temperature:	23 ± 3 °C
Relative humidity:	50 % r. h. ± 10 %
Battery voltage:	$6 V \pm 0.2 V$
External magnetic field:	< 40 A/m, no AC field
 External electrical field: 	< 1 V/m
Measured current/	
sinusoidal frequency:	50 Hz
• Distortion level:	< 0,5 %



EмCheck® MWMZ II



Example of a shield resistance measurement

Ordering details	Art. No.
EmCheck® MWMZ II	122010010
Measuring clamp set EmCheck® (MWMZ II und LSMZ I	1) 122010006