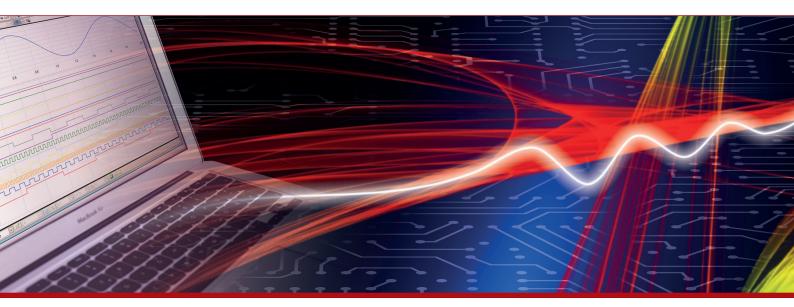


# **Product Datasheet - Technical Specifications**



More information in our Web-Shop at **www.meilhaus.com** and in our download section.

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## Leakage current clamp EmCheck® LSMZ I

#### **Function**

The **leakage current clamp EMCheck LSMZ I** is specially designed to measure leakage and shield currents in the frequency ranges of 50/60 Hz and 5 Hz to 1 KHz. It is characterized by a large opening (2.8 cm) for cable to led through, so that a comfortable measurement is also possible in unfavorable installation situations. The measuring tool features a broad measuring range from 30  $\mu A$  to 100 A with the lower range being of particular interest. Through the holding-function it is possible to perform permanent measurements, such as maximum current. Shield currents are a problem for high frequent field bus cables to originate from a frequently missing or bad potential equalisation as well as a magnetic interference by a power supply cable.

## **Advantages**

- Illuminated display
- Shield current measurement
- Measuring range up to 100 A
- Wide opening of shield current clamp (up to 2.8 cm)
- Holding functions allow a permanent measurement at maximum current
- Frequency changeover (50/60 Hz 5 Hz ... 1 kHz)
- · Shielded sensor

## **Tool information**

- Manual selection of measuring range
- Integrated data storage
- Auto power-off (Battery life indicator)

## Measuring range

• AC current: 30 μA to 100 A

Tolerance: 1.2 %  $\pm$  5 Digit (50 to 60 Hz)

2.5 % ± 5 Digit (60 to 500 Hz) 3.5 % ± 10 Digit (500 Hz to 3 kHz)

• Voltage AC: 0,1 to 600 V

Tolerance: 1 %  $\pm$  5 Digit (50 to 60 Hz)

1.2 % ± 1 Digit (60 to 500 Hz) 2.5 % ± 5 Digit (500 Hz to 3 kHz)

• Input impedance: 1 M0hm

Resistance: 0.1 0hm to 1 k0hm
 Tolerance: 1 % ± 3 Digit
 Continuity: < 35 0hm</li>

## Frequency range

Current / voltage AC: 5 Hz to 1 kHz; 50/60 Hz
 Frequency measurement: 50 Hz to 3 kHz

### Technical data

• Safety in accordance with: IEC61010-1 release 95 IEC61010-2-032 release 93

Isolation class: Class III
 Overvoltage category: CAT III 600 V

Pollution degree:

• Display: 4 digit LCD; 9999 Digits

• Clamp opening: ø 28 mm

• Power supply: 2 x 1.5 V; AAA or LR3

• Strong immunity to spurious currents:

spurious currents: 70 dB
Dimensions (L x H x W): 218 x 64 x 30 mm
Weight: 280 q incl batteries



Leakage current clamp EmCheck® LSMZ I

| Ordering details                                 | Art. No.     |
|--|--------------|
| EmCheck® LSMZ I                                  | 122010005    |
| Measuring clamp set EmCheck® (MWMZ II and LSMZ I | 1) 122010006 |