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 μA 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 effectively
  Tolerance: 1.2 % ± 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 % ± 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 MΩ
• Resistance: 0.1 Ohm to 1 kΩ
• Tolerance: 1 % ± 3 Digit
• Continuity: < 35 Ohm

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: 2
• 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: 70 dB
• Dimensions (L x H x W): 218 x 64 x 30 mm
• Weight: 280 g incl batteries

Ordering details

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
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<tbody>
<tr>
<td>EMCheck® LSMZ I</td>
<td>122010005</td>
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<tr>
<td>Measuring Clamp Set EMCheck® (MWMZ II &amp; LSMZ I)</td>
<td>122010006</td>
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<tr>
<td>Measuring Clamp Set EMCheck® XL</td>
<td>122010007</td>
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