

## Product Datasheet - Technical Specifications



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## Intelligent current measuring clamp EmCheck® ISMZ I

### Function

There are often undesirable interactions between power supply and control technology in complex industrial systems that might cause errors in control engineering. The **intelligent current measuring clamp EmCheck® ISMZ I** is a mobile tool for detecting line-based parasitic currents in industrial plants. It detects values by its own, evaluates and records data.

The integrated intelligence allows first surveys and hence first estimations of EMC susceptibility of plants without drawing on special tools.

### Advantages

- Compact, portable, battery-operated current clamp
- Simple and intuitive handling
- Measuring range up to 30 A
- Illuminated graphic display
- Measuring clamp with wide opening (up to 2.8 cm)
- Hold functions for measuring maximum current
- Shielded transmitter
- Data record in an internal memory for a period of up to 14 days
- Data evaluation by related software on a conventional PC
- Simultaneous use of several clamps possible

### Device information

- Manual selection of measurement range
- Built-in memory for measured data
- Automatic shutdown (battery level indicator)

### Measurement ranges

- AC current: 10 mA to 30 A
- Tolerance: 1.2 % ±5 digits (50 Hz to 60 Hz)  
2.5 % ±5 digits (60 Hz to 500 Hz)  
3.5 % ±10 digits (500 Hz to 20 kHz)

### Frequency range

- AC current: 40 Hz to 5 kHz; 40 Hz to 10 kHz;  
40 Hz to 20 kHz  
5 kHz/10 kHz/20 kHz

### Technical data

- Protection according to: IEC 61010-1  
IEC 61010-2-032  
IEC 61010-2-033
- Insulation class: Class III
- Overvoltage category: CAT III 300 V
- Level of contamination: 2
- Display: LCD 128x64; Monochrome transreflective
- Clamp aperture: ø 28 mm
- Power supply: 6x 1.5 V; AA or LR6
- Largely resistant to parasitic currents: 70 dB
- Housing protection class: IP30
- Dimensions (hxxwxd): 264x66x40 mm
- Weight: 502 g incl. battery



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### Ordering details

EmCheck® ISMZ I

### Art. No.

122010020