

# Clamp Meters

## MD 9272 Leakage Clamp TRMS Meter with Power Functions



The MD 9272 is a unique earth leakage clamp meter. It not just has the ability to accurately read the TRMS AC leakage current of a system, it can also detect losses in the system and suggest possible reasons for the loss. The voltage, power, harmonic, power factor (PF), total harmonic distortion (THD) and crest factor measurements make this instrument suitable for any electrician and engineer.

### MEASUREMENT FUNCTIONS

- TRMS AC and DC voltage measurement;
- TRMS AC current measurement;
- Frequency measurement;
- Power parameters measurement.

### KEY FUNCTIONS

- **TRMS:** accurate measurements on sinusoidal and non-sinusoidal signals.
- **Jaw size:** 28 mm.
- **Shielded Jaw:** shielded jaw allows the clamp meter to be used in the noisiest environments.
- **Accurate:** readings of AC current with an accuracy of 0.8 % and a base resolution of 0.01 mA and voltage with an accuracy of 0.5 % and a base resolution of 0.01 V.
- **Power:** measures various power parameters (active, reactive, apparent power, THD, PF, phase displacement).
- **Intelligent loss analysis:** complex algorithms detect loss and allow determining possible reasons for current loss.
- **Harmonics:** measures current or voltage harmonic components and a percentage value of a harmonic up to the 19<sup>th</sup>.
- **THD and PF:** dual display allows readings to be displayed along with Total Harmonic Distortion (THD) or Power Factor (PF).
- **Peak value:** the peak value of the waveform or crest factor can be displayed.
- **MAX/MIN/HOLD mode:** displays maximum, minimum or last measured value.

### APPLICATIONS

- Load and leakage current measurement;
- System maintenance;
- Power system checking;
- RCD fault finding;
- Process engineering.

## TECHNICAL SPECIFICATION

FUNCTION	Ranges	Resolution	Accuracy
Current AC	40 mA ... 100 A	0.01 mA	± 0.8 % of reading ± 3 digits
Voltage AC, DC	40 V ... 600 V	0.01 V	± 0.5 % of reading ± 4 digits
THD	0 ... 999 %	0.1 %	± 2 % of reading ± 3 digits
Frequency	45 ... 100 Hz	0.1 Hz	± 0.1 % ± 2digit
Current Harmonics	0 ... 100 % Irange	N/A	± 0.15 % × Irange ± 3 digits
Voltage harmonics	0 ... 100 % Urange	N/A	± 0.1 % × Urange ± 2 digits
Crest factor voltage/current	1.00 ... 9.99	0.01	± 2 % of reading ± 2 digits
Peak value voltage	40 V ... 600 V	0.01 V	± 5 % of reading ± 5 digits
Peak value current	40 mA ... 100 A	0.01 mA	± 5 % of reading ± 5 digits
Power	0.000 W ... 60 kW	0.001 W	± 1 % of reading ± 50 digits
PF	0.00 ... 1.00	0.01	± 5 digits
Phase	-180.0 ... 180.0	0.1	± 30 digits
Power Supply	2 x 1,5 V AAA alkaline battery		
Overvoltage category	CAT IV / 300 V, CAT III / 600 V		
Dimensions	185 mm x 62 mm x 42 mm		
Weight	210 g		

## ORDERING INFORMATION



### Standard set (MD 9272)

- Current clamp MD 9272
- Test lead with probe, 2 pcs
- 1.5 V battery, type AA, 2 pcs
- Pouch
- Instruction manual
- Warranty

## OPTIONAL ACCESSORIES

Photo	Order No.	Acc. decription
	AMD 9026	Test lead with probe, 2 pcs

### METREL D.D.

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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
 Subject to technical change without notice.