

MD 9270 Leakage Clamp TRMS Meter With Power Functions



High accuracy leakage current and power measurements with all-in-one clamp-on meter.



MD 9270 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.

MEASURING FUNCTIONS:

- TRMS AC voltage measurement.
- TRMS AC current measurement.
- Frequency measurement.
- Power parameters measurement.

KEY FEATURES:

- **TRMS:** accurate measurements on sinusoidal and non-sinusoidal signals.
- **Jaw size:** 31 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 0.1 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 49th.
- **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 average measured value.

APPLICATION:

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

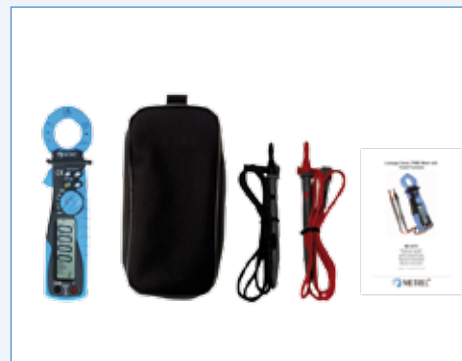
Technical specifications

Function	Range	Accuracy
AC current	40.00 mA, 400.0 mA, 4000 mA	$\pm(0.8\% \text{ of reading} + 3 \text{ digits})$
	40.00 A	$\pm(1.0\% \text{ of reading} + 3 \text{ digits})$
	150.0 A	$\pm(2.0\% \text{ of reading} + 5 \text{ digits})$
AC voltage	250.0 V, 600.0 V	$\pm(0.5\% \text{ of reading} + 2 \text{ digits})$
THD	0 ... 99.9 %	$\pm(2.0\% \text{ of reading} + 3 \text{ digits})$
	100 ... 999 %	$\pm(2.0\% \text{ of reading} + 3 \text{ digits})$
Crest Factor	1.00 ... 2.99	$\pm(2.0\% \text{ of reading} + 2 \text{ digits})$
	3.00 ... 9.99	$\pm(3.0\% \text{ of reading} + 5 \text{ digits})$
Peak value	0 ... 150.0 A	$\pm(3.0\% \text{ of reading} + 3 \text{ digits})$
	0 ... 600.0 V	$\pm(3.0\% \text{ of reading} + 3 \text{ digits})$
Power factor (PF)	0.00 ... 1.00	$\pm(1.0\% \text{ of reading} + 0.01)$
Phase	-180.0° ... +180.0°	$\pm(1.0\% \text{ of reading} + 0.4)$
Apparent power	0 ... 9999 VA	from $\pm(1\% \text{ of r.} + 0.03)$ to $\pm(1\% \text{ of r.} + 3)$
	10 kVA ... 999.9 kVA	from $\pm(2\% \text{ of r.} + 0.03)$ to $\pm(2\% \text{ of r.} + 0.3)$
Active power	0 ... 9999 W	from $\pm(1\% \text{ of r.} + 0.03)$ to $\pm(1\% \text{ of r.} + 3)$
	10 kW ... 999.9 kW	from $\pm(2\% \text{ of r.} + 0.03)$ to $\pm(2\% \text{ of r.} + 0.3)$
Reactive power	0 ... 9999 VAR	from $\pm(1\% \text{ of r.} + 0.03)$ to $\pm(1\% \text{ of r.} + 3)$
	10 kVAR ... 999.9 kVAR	from $\pm(2\% \text{ of r.} + 0.03)$ to $\pm(2\% \text{ of r.} + 0.3)$
Power supply	2 x 1.5 V batteries, type AAA	
Overvoltage category	CAT III / 600 V, CAT IV / 300 V	
Dimensions	212 x 59 x 37 mm	
Weight	225 g	

Ordering information

Standard set

MD 9270



- Current clamp MD 9270
- Test lead with probe, 2 pcs
- 1.5 V battery, type AAA, 2 pcs
- Pouch
- Instruction manual
- Warranty



Measuring and Regulation Equipment Manufacturer

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