

Clamp Meters

MD 9273 Bluetooth® TRMS Leakage Clamp with Power Functions



The MD 9273 is the new Bluetooth-enabled expansion to the Metrel multifunctional testers MI 3155, MI 3152 and MI 3325. When used together, they form a team for measuring data from a safe distance. The multifunctional instruments can record inrush current from MD 9273 measurement and display data in table or graph form, or they can be used to generate a 128 Hz signal that MD 9273 can filter and follow for cable tracing. When acting as a remote probe, it can send data on current, voltage, power, and harmonics. On the other hand, it is an independent instrument with improved accuracy, construction, and new functions like VFD filter. It can accurately read the TRMS AC leakage current of a system, detect losses in the system, suggest possible reasons for the loss, sense the harmonics in the signal, and perform basic power quality tests.

MEASUREMENT FUNCTIONS

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

KEY FUNCTIONS

- **Bluetooth** connection to MI 3155, MI 3152 and MI 3325.
- **Inrush current** recording with MI 3155, MI 3152 and MI 3325.
- **Online measurements** of current, voltage, power, current harmonics, and voltage harmonics.
- **128 Hz notch** filter for cable tracing.
- **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 19th.
- **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

- Basic power quality analysis.
- Troubleshooting in installations.
- Troubleshooting of devices and machines.
- Electric vehicles troubleshooting.
- General purpose.
- Cable tracing.

TECHNICAL SPECIFICATION

FUNCTION	Ranges	Resolution	Accuracy
Current AC	40 mA ... 100 A	0.01 mA	$\pm 0.8\%$ of reading ± 3 digits
Voltage AC, DC	40 V ... 600 V	0.01 V	$\pm 0.5\%$ of reading ± 4 digits
THD	0 ... 999 %	0.1 %	$\pm 2\%$ of reading ± 3 digits
Frequency	10 ... 500 Hz	0.1 Hz	$\pm 0.1\% \pm 2$ digit
Current Harmonics	0 ... 100% Urange	N/A	$\pm 0.15\% \times$ Urange ± 3 digits
Voltage harmonics	0 ... 100% Urange	N/A	$\pm 0.1\% \times$ Urange ± 2 digits
Crest factor voltage/current	1.00 ... 9.99	0.01	$\pm 2\%$ of reading ± 2 digits
Peak value voltage	40 V ... 600 V	0.01 V	$\pm 5\%$ of reading ± 5 digits
Peak value current	40 mA ... 100 A	0.01 mA	$\pm 5\%$ of reading ± 5 digits
VFD	40 V ... 600 V	0.01 V	$\pm 2\%$ of reading ± 2 digits
Power	0.000 W ... 60 kW	0.001 W	$\pm 1\%$ 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 9273)

- MD 9273 Bluetooth® TRMS Leakage Clamp with Power Functions
- Test lead with probe, 2 pcs
- AMD 9028 Alligator clip, 2 pcs
- 1.5 V battery, type AA, 2 pcs
- Pouch
- Instruction manual
- Calibration certificate

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	AMD 9026	Test lead with probe, 2 pcs
	AMD 9028	Alligator clip, 2 pcs
	A 1778	Magnetic contact probe
	A 1013	Crocodile clip, black
	A 1064	Crocodile clip, red
	S 2025	Test lead, 1.5 m, 2 pcs (black, red)

METREL D.D.

Measuring and Regulation Equipment
 Manufacturer
 Ljubljanska 77, SI-1354 Horjul, Slovenia
 T +386 (0)1 75 58 200, F +386 (0)1 75 49 226
 metrel@metrel.si, www.metrel.si

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