

Clamp meters

MD 9250 TRMS AC/DC CAT IV 1000V Clamp Meter

Current clamp



The MD 9250 is the first Clamp Meter that meets overvoltage category CAT IV 1000 V. MD 9250 is a high quality clamp meter specially designed for single-hand operation, built-in measuring functions; TRMS AC/DC (current, voltage), capacitance, temperature and full range resistance makes this instrument an ideal tool for the most demanding applications in the industrial sector. The large jaws capacity of (max. 55 mm) in diameter allows AC/DC - current measurements up to 2000 A. High resolution and accuracy, 2-line LCD display fast data acquisition and transfer (via optical interface), non-contact voltage detection, and auto-check function are highlights of the instrument.

MEASURING FUNCTIONS

- TRMS AC, DC voltage measurement;
- TRMS AC, DC current measurement;
- Capacitance measurement;
- Resistance measurement;
- Diode test;
- Frequency measurement;
- Electric field detection;
- Continuity test (acoustic signalling);
- Temperature measurement.

KEY FEATURES

- **Large jaws:** for measuring on 55mm size conductors.
- **TRMS:** accurate measurements on sinusoidal and non-sinusoidal signals.
- **VFD:** correctly measure frequency and voltage of signals for motor control
- **High current:** 2000 A DC & AC clamp on measurement.

- **Lo-Z:** AutoCheck® mode provides low (ramp-up) input impedance to drain ghost voltages.
- **Auto-check function:** automatic detection of AC voltage, DC voltage or resistance.
- **Auto-ranging:** user can switch between auto and manual ranging.
- **Transient protection:** it protects user in case of lightning strike or switching surge up to 12 kV.
- **Relative zero mode:** relative function for comparing the difference between signals or removing background noise.
- **PC Link:** test results can be downloaded to the computer via the optional PC software.
- **In-rush:** fast 5ms Crest-MAX mode to capture in-rush currents.
- **Temperature:** measures temperature in Celsius up to 1000 °C and in Fahrenheit up to 1832 °F.
- **Hold:** data hold function freezes the display for later view.
- **Backlight:** large bright 3-5/6 digits 6,000 counts + 1,999 counts dual LCD display with

- backlight for working in dark conditions.
- **Safe:** CAT IV / 1000 V overvoltage protection.

APPLICATION

- Solar and wind power system testing;
- UPS system testing;
- Utility scale battery system testing;
- High level industrial testing;
- High level electrical testing.

TECHNICAL SPECIFICATION

FUNCTION	Range	Accuracy
DC Voltage	6.000 V ... 1000 V	$\pm(0.5\%$ of reading + 5 digits)
Autocheck (DCV)	6.000 V ... 1000 V	$\pm(1.3\%$ of reading + 5 digits)
AC Voltage (50 Hz ... 400 Hz)	6.000 V ... 1000 V	$\pm(1.2\%$ of reading + 5 digits)
AC+DC Voltage (DC, 50Hz ... 400 Hz)	6.000 V ... 1000 V	$\pm(1.4\%$ of reading + 7 digits)
Autocheck (ACV)	6.000 V ... 1000 V	$\pm(1.5\%$ of reading + 5 digits)
Variable Frequency Drive	10 Hz ... 400 Hz	from $\pm(4.0\%$ of reading + 80 digits) to $\pm(7.0\%$ of reading + 80 digits)
DC Current	200.0 A ... 2000 A	from $\pm(2.0\%$ of reading + 5 digits) to $\pm(2.5\%$ of reading + 5 digits)
AC Current (50 Hz ... 400 Hz)	200.0 A ... 2000 A	from $\pm(2.0\%$ of reading + 5 digits) to $\pm(3.5\%$ of reading + 5 digits)
Diode Test	1.000 V Open-circuit voltage < 1.8 V DC, Test current 0.56 mA	$\pm(1.0\%$ of reading + 3 digit)
Resistance & Autocheck	600.0 Ω ... 40.00 M Ω	from $\pm(0.5\%$ of reading + 5 digits) to $\pm(2.3\%$ of reading + 5 digits)
Capacitance	60.00 nF ... 2000 μ F	from $\pm(2.0\%$ of reading + 5 digits) to $\pm(4.0\%$ of reading + 5 digits)
Temperature	-50 °C ... 1000 °C -58 °F ... 1832 °F	$\pm(0.3\%$ of reading + 4 digits) $\pm(0.3\%$ of reading + 6 digits)
Mains frequency	10 Hz ... 1999 Hz	$\pm(0.1\%$ of reading + 4 digits)
Power supply	2 x 1.5 V type AAA batteries	
Overvoltage category	CAT IV / 1000 V	
Dimensions	264 x 97 x 43 mm	
Weight	608 g	

ORDERING INFORMATION



Standard set MD 9250

- MD 9250 TRMS AC/DC CAT IV 1000V clamp meter
- AMD 9026 Test lead with probe (red, black), 2 pcs
- AMD 9023 Thermocouple probe, type K
- 1.5 V battery type AAA, 2pcs
- Soft carrying bag
- Instruction manual
- Calibration certificate

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. decription
	AMD 9028	Alligator clip
	AMD 9026	Test lead with probe, 2 pcs
	AMD 9023	Thermocouple probe, type K
	AMD 9024	Adapter for thermocouple probe AMD 9023
	AMD 9250	PC interface set for MD 9250

METREL d.o.o.

Test and Measurement Equipment
Ljubljanska 77, SI-1354 Horjul, Slovenia
T +386 (0)1 75 58 200
info@metrel.si
www.metrel.si

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
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