

MD 9250 Industrial TRMS AC/DC CAT IV 1000 V



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.

KEY FEATURES:

- **Large jaws:** for measuring on 55mm size conductors.
- **TRMS:** accurate measurements on sinusoidal and non-sinusoidal signals.
- **VFD:** feature makes the instrument capable of measuring the true values in accordance with frequency.
- **High current:** 2000A 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.

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 signaling);
- Temperature measurement.

APPLICATION:

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

Technical specifications

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

Ordering information

Standard set

MD 9250



- Current clamp MD 9250
- Test lead with probe, 2 pcs
- Thermocouple probe, type K
- Pouch
- 1.5 V battery, type AAA, 2 pcs
- Instruction manual
- Warranty



Measuring and Regulation Equipment Manufacturer

METREL d.d.
Ljubljanska 77
SI-1354 Horjul
Tel: + 386 (0)1 75 58 200
Fax: + 386 (0)1 75 49 226
E-mail: metrel@metrel.si
<http://www.metrel.si>



BELMET 97 d.o.o.
Hrvatskog proljeća 34
10040 Zagreb
HRVATSKA / CROATIA

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