

Clamp meters

MD 9225 Most Complete Industrial TRMS AC/DC Current Clamp Meter



The MD 9225 is a versatile current clamp meter with perfect combination of size and built-in functions. It measures AC/DC current and voltage, capacitance, temperature, full range resistance and captures In-rush current. Display with large easy-to-read figures and one-handed operation make MD 9225 an extremely easy-to-use. This compact instrument combines a high level of functionality, small size and portability. All built-in features make MD 9225 a perfect tool for advanced applications.

Clamp Meters

MD 9222 TRMS AC Current Clamp Meter



The MD 9222 is a professional TRMS AC current clamp meter with a wide jaw opening and is capable of measuring currents up to 1000 A. It has the ability to measure capacitance and frequency and is equipped with a built-in VFD feature that makes the instrument capable of measuring the true values in accordance with frequency. The MD 9222 has a wide range of extra features, including data and MAX hold functions, auto power off, auto-ranging and a relative zero function. It uses state-of-the-art measurement technology and is housed in a sturdy industrial-grade case.

NEW
Clamp Meters

MEASURING FUNCTIONS

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

KEY FEATURES

- **Clamp on + Full Multimeter ranges:** measures current up to 400 A AC/DC.
- **Jaw size:** 26 mm.
- **In-rush:** fast 30 ms Crest-MAX mode to capture in-rush currents.
- **Temperature:** measures temperature in Celsius up to 537 °C and in Fahrenheit up to 999 °F.
- **Transient protection:** it protects user in case of lightning strike or switching surge up to 6.5 kV.
- **High resolution:** 4000 counts enable fast measurements.
- **Relative zero mode:** relative function for comparing the difference between signals or removing background noise.
- **Hold:** data hold function freezes the display for later view.
- **Safe:** CAT IV / 300 V, CAT III / 600 V overvoltage protection.

APPLICATION

- Solar and wind power system testing;
- UPS system testing;
- Utility scale battery system testing;
- Working in small enclosures.

TECHNICAL DATA

FUNCTION	Range	Accuracy
DC Voltage	400.0 mV ... 600 V	From ±(0.3% of reading + 3 digits) to ±(1.0% of reading + 4 digits)
AC Voltage (50 Hz ... 500 Hz)	4.000 V ... 600 V	From ±(1.0% of reading + 4 digits) to ±(2.0% of reading + 4 digits)
DC Current	0.0 A ... 400.0 A	From ±(1.0% of reading + 4 digits) to ±(2.5% of reading + 5 digits)
AC Current (40 Hz ... 400 Hz)	0 A ... 400 A	From ±(1.0% of reading + 6 digits) to ±(2.5% of reading + 5 digits)
Diode Test	Open-circuit voltage < 1.6 V DC, Test current 0.4 mA	
Resistance	400.0 Ω ... 40.00 MΩ	From ±(0.8% of reading + 6 digits) to ±(2.0% of reading + 4 digits)
Capacitance	500.0 nF ... 3000 μF	±(3.5% of reading + 6 digits)
Temperature	-20 °C ... 537 °C	From ±(2.0% of reading + 3 digits) to ±(3.0% of reading + 3 digits)
	-4 °F ... 1000 °F	From ±(2.0% of reading + 6 digits) to ±(3.0% of reading + 6 digits)
Mains frequency	5 Hz ... 100 kHz	±(0.5% of reading + 4 digits)
Power supply	2 x 1.5 V batteries, type AAA	
Overvoltage category	CAT IV / 300 V, CAT III / 600 V	
Dimensions	188 x 63 x 40 mm	
Weight	218 g	

STANDARD SET

- MD 9225**
- Current clamp MD 9225
 - Test lead with probe, 2 pcs
 - Thermocouple probe, type K
 - Pouch
 - 1.5 V battery, type AAA, 2 pcs
 - Instruction manual
 - Warranty

MEASURING FUNCTIONS

- DC and TRMS AC voltage up to 1000 V;
- TRMS AC current measurement up to 1000 A;
- Resistance measurement;
- Acoustic continuity test;
- Diode test;
- Frequency measurement;
- Capacitance measurement.

KEY FEATURES

- **Auto-ranging.**
- LCD display with **backlight**, 3-5/6 digit, 6000 count.
- Automatic, **non-contact detection** of electromagnetic fields to locate and trace live conductors.
- **Data hold** function.
- **MIN/MAX/AVG** function.
- **Relative zero.**
- **51 mm** jaw opening.
- **CAT IV / 600 V, CAT III / 1000 V** overvoltage categories.

APPLICATION

- System maintenance;
- Power system checking;
- High level industrial testing;
- High level electrical testing.

STANDARD SET

- MD 9222**
- Current clamp MD 9222
 - Test lead, 2 pcs

- Insulated crocodile clip, 2 pcs
- Battery, 2 pcs
- Pouch
- Instruction manual
- Warranty

TECHNICAL DATA

FUNCTION	Range	Accuracy
DC Voltage	600.0 V ... 1000.0 V	±(0.8% of reading + 5 digits)
AC Voltage (50 Hz ... 400 Hz)	600.0 V ... 1000.0 V	from ±(0.8% of reading + 5 digits) to ±(10% of reading + 5 digits)
CREST (Peak-Hold)	Accuracy: Add 250 digits to specified accuracy for changes > 5ms	
Audible Continuity Tester	Audible Threshold: At between 10 Ω and 250 Ω Response time: 32 ms approx.	
Ohm	600.0 Ω, 6.000 kΩ, 60.00 kΩ	±(1.0% of reading + 5 digits)
Capacitance	200.0 μF, 2500 μF	±(2.0% of reading + 4 digits)
Diode Tester	2.000 V	±(1.5% of reading + 5 digits)
AmpTip™ clamp-on ACA (40 Hz ... 400 Hz)	00.00 A ... 60.00 A	from ±(1.5% of reading + 5 digits) to ±(3.0% of reading + 5 digits)
Regular Clamp-on ACA (40 Hz ... 400 Hz)	60.00 A ... 1000 A	from ±(1.8% of reading + 5 digits) to ±(2.2% of reading + 5 digits)
Hz Line Level Frequency	5.00 Hz ... 999.9 Hz	±(1.0% of reading + 5 digits)
Non-Contact EF-Detection	20 V ... 440 V	Tolerance: 10 V ... 1000 V
Detection Frequency	50/60Hz	
Transient Protection	8.0 kV (1.2/50 μs surge)	
Overload Protections	Current & Hz functions via jaws: 1000 ADC/AAC rms at < 400 Hz Voltage & 3-Phase Rotation functions via terminals: 1100 VDC/VAC rms Other functions via terminals: 1000 VDC/VAC rms	
Power Supply	2 x 1.5 V batteries, type AAA	
Power Consumption	4.3 mA	
Dimension (LxWxH)	258 x 94 x 44 mm	
Weight	312 g	
Jaw opening & Conductor diameter	51 mm max	