

Digital multimeter

MD 9221 TRMS AC Current Clamp Meter

NEW



The MD 9221 is a professional TRMS AC current clamp meter capable of measuring temperature with a Type K probe, capacitance and frequency. It is equipped with a built-in VFD feature that enables the instrument to measure true values in accordance with frequency. The MD 9221 has a wide range of extra features, including data and MAX hold functions, peak value, auto power off, auto-ranging, relative zero and a 3-phase rotation function. It uses state-of-the-art measurement technology and is housed in a sturdy industrial-grade case.

MEASURING FUNCTIONS

- DC and TRMS AC voltage up to 600 V;
- TRMS AC current measurement up to 600 A;
- 3-phase rotation function;
- Resistance measurement;
- Acoustic continuity test;
- Diode test;
- Frequency measurement;
- Capacitance measurement;
- Temperature 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.
- **Peak value.**
- **Relative zero.**
- **30 mm** jaw opening.
- **CAT IV / 300 V**, CAT III / 600 V overvoltage categories.

APPLICATION

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

STANDARDS

- CAN/CSA C22.2 No. 61010-1 Ed. 3.0
- EN61326-1:2006
- EN55022
- EN61000-3-2
- EN61000-3-3
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11
- IEC/UL/EN61010-1 Ed. 3.0
- IEC/EN61010-2-033 Ed. 1.0
- IEC/EN61010-2-032 Ed. 3.0
- IEC/EN61010-031 Ed. 1.1

Directives

- 2004/108/EC EMC
- 2006/95/EC LVD

TECHNICAL SPECIFICATION

| Function | Range | Accuracy |
|---|---|---|
| DC Voltage | 600.0 V | ±(1.0% of reading + 5 digits) |
| AC Voltage (50 Hz ... 60 Hz) | 600.0 V | ±(1.0% of reading + 5 digits) |
| PEAK-rms (ACV & ACA) | Response: 80 ms to > 90% | |
| Audible Continuity Tester | Audible Threshold: At between 10 Ω and 250 Ω | Response time: 32ms approx. |
| Ohm | 600.0 Ω, 6.000 KΩ, 60.00 KΩ | ±(1.0% of reading + 5 digits) |
| Capacitance | 200.0 nF, 2500 nF | ±(2.0% of reading + 4 digits) |
| Diode Tester | 2.000 V | ±(1.5% of reading + 5 digits) |
| DC μA | 200.0 nA, 2000 nA | ±(1.0% of reading + 5 digits) |
| Temperature | -40.0 °C ... 400 °C | From ±(1.0% of reading + 0.8 °C) to ±(1.0% of reading + 1 °C) |
| | -40.0 °F ... 752 °F | From ±(1.0% of reading + 1.5 °F) to ±(1.0% of reading + 2 °F) |
| AmpTip™ clamp-on ACA (50 Hz ... 60 Hz) | 60.00 A | ±(1.5% of reading + 5 digits) |
| Regular Clamp-on ACA (50 Hz ... 400 Hz) | 60.00 A ... 600.0 A | From ±(1.8% of reading + 5 digits) to ±(2.0% 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 ... 600 V |
| Detection Frequency | 50/60Hz | |
| Transient Protection | 6.0 kV (1.2/50 μs surge) | |
| Overload Protections | Current & Hz functions via jaws: 600 A DC / A AC rms at < 400 Hz Voltage & 3-Phase Rotation functions via terminals: 660 V DC / 920 V AC rms Other functions via terminals: 600 V DC / V AC rms | |
| Power Supply | 1.5 V AAA Size battery X 2 | |
| Power Consumption | 4.3 mA | |
| Dimension (L x W x H) | 217 x 76 x 37 mm | |
| Weight | 186 g | |
| Jaw opening & Conductor diameter | 30 mm | |

ORDERING INFORMATION



Standard set MD 9221

- MD 9221 Current clamp
- Test lead, 3 pcs
- Crocodile clip, 3 pcs
- Type K temperature sensor, 1 pcs
- Battery, 2 pcs
- Pouch, 1 pcs
- User manual

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