

Professional AC/DC Clamp Meters



Technical Datasheet



K2009R

The new K2009A is designed for superior performance, value and has been redesigned to meet the IEC 61010 Safety Regulations. The new custom designed LCD has a maximum of 4000 counts, and has microprocessor controlled annunciators and the decimal point. The K2009A is a True RMS clamp meter and offers a unique feature with the LoHz mode which automatically selects a lower sample rate in low frequency measurement to reduce the fluctuations of display readings. The average mode allows easy reading of fluctuating voltages and currents.

Features Include:

- Peak Hold
- Ø55mm Cable allow for easy access
- Current measurement from 0.1 Amp to 2000 Amps
- Measures ACV to 750V and DCV to 1000V
- Resistance to 4000Ω
- 4000 Count LCD display
- Frequency response from 30Hz to 1kHz on ACV and ACA
- Microprocessor DCA zero adjustment
- Frequency measurement
- Terminal cover avoids use of incorrect terminal for voltage
- Provides Recorder Output for long hour monitoring
- Continuity Buzzer
- Auto Power Off

General Specifications

Operating system	: Dual integration
Display	: Liquid crystal display with a maximum count of 4000 plus annunciators
Over-range indication	: "OL" is shown on the display
Response time	: Approx. 2 seconds
Sample rate	: About 3 times per second
Temperature and humidity for guaranteed accuracy	: 23°C ± 5°C, relative humidity accuracy guaranteed 75% without condensation
Operating temperature and humidity	: 0°C - 40°C, relative humidity accuracy guaranteed 85% without condensation
Power source	: 6F22 (DC9V) or equivalent battery
Current consumption	: Approx. 15mA max.
Sleep function	: Automatically powered down in about 30 minutes after the last switch operation (power consumption: about 200µA)
Overload protection	: DC/AC current ranges: 2400A AC for 10 sec DC/AC voltage ranges: 1200V AC/DC for 10 sec Resistance range: 600V AC/DC for 10 sec
Withstand voltage	: 5500V AC, 50/60Hz for 1 minute between electrical circuit and housing case for metal parts of the jaws
Insulation Resistance	: 10MΩ or greater at 1000V between electrical circuit and housing case or metal part of the jaws

...to be continued p2/



Ordering Information

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General Specifications

Conductor size	: Approx. 55mm diameter max.
Dimensions	: 250(L) x 105(W) x 49(D)mm
Weight	: About 530g
Accessories	: Test leads M-7017 / 6F22 Battery / Carrying case M-909 / Instruction manual / Recorder output plug M-8201
Optional Accessories	: Multi-Tran M-8008 / Recorder M-5100A, etc / Output lead M-7014

Measuring ranges and accuracy at 23 °C ± 5 °C, 45 - 75% relative humidity)

Measurement	Measuring Range	Accuracy
DC Current	0 ~ ± 399.9A	± 1.5% of rdg ± 2 dgts
	± 150 ~ ± 2000A	
AC Current	0 ~ 399.9A	± 1.5% of rdg ± 3 dgts (50/60Hz)
	150 ~ 1700A	± 3.0% of rdg ± 4 dgts (30 ~ 1kHz)
	1701 ~ 2000A	± 3.5% of rdg ± 3 dgts (50/60Hz)
DC Voltage	0 ~ 39.9V	± 1.0% of rdg ± 2 dgts
	±15.0 ~ ±399.9V	
	±150 ~ ±1000V	
AC Voltage	0 ~ 39.99V	± 1.5% of rdg ± 3 dgts (50/60Hz)
	15.0 ~ 399.9V	± 2.0% of rdg ± 4 dgts (30 ~ 1 kHz)
	150 ~ 750V	
Resistance	0 ~ 399.9Ω	± 1.5% of rdg ± 2 dgts
	150 ~ 3999Ω	
Continuity Check	10 ~ 399.9Ω	± 1.5% of rdg ± 2 dgts
Frequency	10 ~ 3999Hz	± 1.5% of rdg ± 5 dgts

Output (output impedance: about 10kΩ)			
Measurement	Measurement Range	Output Voltage (mVDC)	Accuracy
DC	0 ~ ±399.9A	0 ~ ±399.9mV	± 1.5% of rdg ± 3mV
	±150 ~ ±2000A	±15.0 ~ ±200.0mV	
	0 ~ 399.9A	0 ~ 399.9mV	± 1.5% of rdg ± 3mV(50/60Hz)
AC	150 ~ 1700A	15.0 ~ 170.0mV	± 3.0% of rdg ± 3mV(40 ~ 1kHz)
	1701 ~ 2000A	170.1 ~ 200.0mV	± 3.5% of rdg ± 3mV(50/60Hz)

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