Professional AC/DC Clamp Meters



Technical Data

K2009A

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:

- True RMS clamp meter
- 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
- K2009A offers 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

: Liquid crystal display with a maximum count of 4000 plus annunciators Display

: "OL" is shown on the display Over-range indication : Approx. 2 seconds Response time Sample rate : About 3 times per second

Temperature and humidity: 23°C ± 5°C, relative humidity accuracy guaranteed 75% without

for guaranteed accuracy condensation

Operating temperature : 0°C - 40°C, relative humidity accuracy guaranteed 85% without

and humidity 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)

: DC/AC current ranges: 2400A AC for 10 sec Overload protection

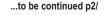
> DC/AC voltage ranges: 1200V AC/DC for 10 sec Resistance range: 600V AC/DC for 10 sec

Withstand voltage : 5500V AC, 50/60Hz for 1 minute between electrical circuit and housing

case for metal parts of the jaws

Insulation Resistance : $10M\Omega$ or greater at 1000V between electrical circuit and housing case or

metal part of the jaws











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 \pm 5 °C, 45 - 75% relative humidity)

Measurement	Measuring Range	Accuracy	
DC Current	0 ~ ± 399.9A	± 1.5% of rdg ± 2 dgts	
	± 150 ~ ± 2000A	± 1.5 % Of Tag ± 2 agas	
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		
	±15.0 ~ ±399.9V	\pm 1.0% of rdg \pm 2 dgts	
	±150 ~ ±1000V		
AC Voltage	0 ~ 39.99V	± 1.5% of rdg ± 3 dgts (50/60Hz)	
	15.0 ~ 399.9V		
	150 ~ 750V	± 2.0% of rdg ± 4 dgts (30 ~ 1 kHz)	
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	

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	± 1.5% of fug ± 5111V
	0 ~ 399.9A	0 ~ 399.9mV	± 1.5% of rdg ± 3mV(50/60Hz)
AC	150 ~ 1700A	15.0 ~ 170.0mV	$\pm 3.0\%$ of rdg ± 3 mV(40 ~ 1kHz)
	1701 ~ 2000A	170.1 ~ 200.0mV	± 3.5% of rdg ± 3mV(50/60Hz)