Professional AC/DC Clamp Meter



Technical Data

K2003A

The K2003A 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 K2003A is an average sensing clamp meter ideally suited for load monitoring and trouble shooting on electrical systems containing linear loads. The CAT IV 600V safety standard ensures the meter can be used in industrial environments.

Features Include:

- Max 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 4000Q
- 4000 Count LCD display
- Frequency response from 30Hz to 1kHz on ACV and ACA
- Microprocessor DCA zero adjustment
- CAT IV 600V Safety standard ensures meter can be used in industrial environments
- 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

Display : Liquid crystal display with maximum counts of 4000 **Low Battery Warning** : "BATT" symbol is displayed on the digital display

Overrang Indication : "OL" is displayed where input exceeds the upper limit of a range

Response Time : Approx. 2 seconds Sample rate : Approx. 2.5 times per second

Temperature and Humidity

for Guaranteed Accuracy : 23°C ±5, relative humidity up to 85% without condensation

Operating Temperature

and Humidity : 0 to 40°C, relative humidity up to 85% without condensation

Storing Temperature

and Humidity : - 20 to 60°C, relative humidity up to 90% without condensation

Power source : Two R6P (DC1.5V) batteries or equivalent

Current Consumption : Approx. 9mA max

Sleep Function : Automatically switches to the Sleep mode in about 10 minutes after the

last switch or button operation (current consumption in the sleep mode:

Overload Protection : AC/DC currentrages 2400A AC/DC for 10sec

AC/DC current rages 1200A AC/DC for 10sec

Resistance ranges 600V AC/DC for 10sec

...to be continued p2/









General Specifications

Withstand Voltage : 5500V AC for 1 minute (between electrical circuit and housing cases or, metal parts of jaws)

 $\begin{array}{lll} \textbf{Insulation Resistance} & : & 10 \text{M} \ \Omega \ \text{or greater at } 1000 \text{V} \\ \textbf{Conductor Size} & : & \text{Approx. 55mm diameter max} \\ \textbf{Dimensions} & : & 250 \ \text{(L) X 105 (W) X 49 (D) mm} \\ \end{array}$

Weight : Approx. 530g

Accessories : Test leads......1set

 R6P batteries
 2

 Carrying case K-9094
 1

 Output plug K-8201
 1

 Instruction manual
 1

Accessories : Multi-Tran K-8008

Recorder Output Lead

Measuring Ranges and Accuracy (at 23 °C $\pm\,5$ °C , humidity 45 ~ 85%RH)

Measurement	Range	Measuring Range	Accuracy
DC Current	400A	0 to ± 400.0A	± 1.5% of rdg ± 2 dgt
	2000A	0 to ± 2000A	± 1.5% 0110g ± 2 dgt
AC Current	400A	0 to 400.0A	± 1.5% of rdg ± 2 dgt (50/60Hz)
	2000A	0 to 1700A	± 3.0% of rdg ± 4 dgt (40~1kHz)
		1701 to 2000A	± 3.0% of rdg ± 2 dgt (50/60Hz)
DC Voltage (Input impedance: 2MΩ)	400V	0 to ± 400.0 V	± 1.0% of rdg ± 2 dgt
	1000V	0 to ± 1000V	± 1.0% of rag ± 2 agt
AC Voltage	400V	0 to 400.0V	± 1.5% of rdg ± 2 dgt (50/60Hz)
	750V	0 to 750V	± 1.5% of rdg ± 4 dgt (40 ~ 1kHz)
Resistance (Auto ranging)	400Ω/	0 to 400.0Ω	± 1.5% of rdg ± 2 dgt
	4000Ω		
Resistance (Fixed)	400Ω	0 ~ 400.0Ω	± 1.5% of rdg ± 2 dgt (Buzzer beeps at 50±35Ω of less)

Output (output impedance: about $10k\Omega$)						
Accuracy		DC Output Voltages	Input Currents	Accuracy		
DC	400A	0 to 400.0mV	0 to 400A	± 1.5% of rdg ± 3mV		
	2000A	0 to 200.0mV	0 to 2000A	± 1.5% of rdg ± 3mV		
AC	400A	0 to 400.0mV	0 to 400A	± 1.5% of rdg ± 3mV (50/60Hz) ± 1.5% of rdg ± 3mV (40~1kHz)		
	2000A	0 to 170.0mV	0 to 1700A	± 1.5% of rdg ± 3mV (50/60Hz) ± 3.0% of rdg ± 3mV (40~1kHz)		
		170.1 to 200.0mV	1701 to 2000A	± 3.0% of rdg ± 3mV (50/60Hz)		