

# HIOKI

2004

## 3244 CARD HiTESTER

Field Measuring Instruments



# A card size DMM with the emphasis on safety

from **NAGANO, JAPAN**



Actual size

## Safe!

Bears the CE mark!

## Small!

Only 9.5mm thick

## Light!

Only 60g in weight!

### Features

- Bears the CE mark
- Card size: only 9.5mm thick and 60g in weight
- 4199 measurement count
- Automatic power saving function
- Automatic range function
- 150 hours of continuous operation
- Overload circuit protection to 250V
- Test leads fit nicely in the case

CAT II 500V



ISO14001  
JQA-E-90091



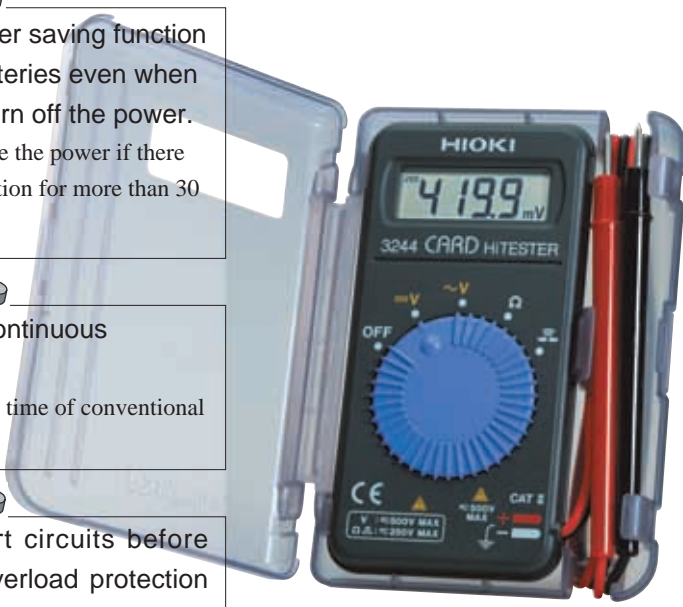
<http://www.hioki.co.jp/>

HIOKI company overview, new products, environmental considerations and other information are available on our website.

- Automatic power saving function saves your batteries even when you forget to turn off the power. Automatically save the power if there has been no operation for more than 30 minutes.

- 150 hours of continuous operation. Almost double the time of conventional systems.

- Prevents short circuits before they occur. Overload protection to 250V. ( $\Omega$  and continuity functions)



- 4199 count display

- The test leads fit neatly inside the case. Or, you can use the wrap around method shown in the photograph.

- Card size: only 9.5mm thick and 60g in weight

- Bears the CE mark

Comes with the case shown in the photograph.

## 3244 Specifications

Measurement method	: Double integration
Display	: Max. 4199 count LCD Automatic display of minus sign (-) Overflow display "OF" and "-OF"
Range switching	: Automatic
Sampling rate	: 2.5 times/s
Dielectric strength	: 3.7kVAC rms sin (50Hz or 60Hz for 1 minute) between the terminals and case
Max.overload voltage	: 500V AC/DC rms (sin) - ACV, DCV (for 1 minute) 250V AC/DC rms (sin) - $\Omega$ , continuity (for 1 minute)
Operating temperature	: 0°C to 40°C, max. 80% rh or less
Battery low indicator	: Displays a "B" when current falls below 2.3V $\pm$ 0.15V
Power supply	: one CR2032 battery (3V DC)
Power consumption	: Typically 4.0mW (for DC voltage)
Dimensions	: 55 W $\times$ 109 H $\times$ 9.5 Dmm $\cdot$ 60g
Accessories	: Carrying case
Safety standards	: Complies with IEC 61010-1 Pollution degree 2, overvoltage category II 500 V
EMC	: EN61326-1

Measurement range (23°C $\pm$ 5°C, 80% rh or less, no condensation)

	Range	Measurement accuracy	Reference
DC V	420.0mV	$\pm$ 2.0%rdg. $\pm$ 4dgt.	Input impedance min. 100M $\Omega$ approx. 11M $\Omega$ approx. 10M $\Omega$ approx. 10M $\Omega$ approx. 10M $\Omega$
	4.200 V	$\pm$ 0.7%rdg. $\pm$ 4dgt.	
	42.00 V	$\pm$ 1.3%rdg. $\pm$ 4dgt.	
	420.0 V	$\pm$ 1.3%rdg. $\pm$ 4dgt.	
	500 V	$\pm$ 1.3%rdg. $\pm$ 4dgt.	
AC V	4.200 V	$\pm$ 2.3%rdg. $\pm$ 8dgt.	Input impedance approx.11M $\Omega$ approx.10M $\Omega$ approx.10M $\Omega$ approx.10M $\Omega$ Frequency range 50Hz to 500Hz 50Hz to 500Hz 50Hz to 500Hz 50Hz to 500Hz
	42.00 V	$\pm$ 2.3%rdg. $\pm$ 8dgt.	
	420.0 V	$\pm$ 2.3%rdg. $\pm$ 8dgt.	
	500 V	$\pm$ 2.3%rdg. $\pm$ 8dgt.	
$\Omega$	420.0 $\Omega$	$\pm$ 2.0%rdg. $\pm$ 4dgt.	Open-circuit voltage Max. 3.4V 0.7V(TYP.) 0.5V(TYP.) 0.5V(TYP.) 0.5V(TYP.) 0.5V(TYP.)
	4.200 k $\Omega$	$\pm$ 2.0%rdg. $\pm$ 4dgt.	
	42.00 k $\Omega$	$\pm$ 2.0%rdg. $\pm$ 4dgt.	
	420.0 k $\Omega$	$\pm$ 2.0%rdg. $\pm$ 4dgt.	
	4.200M $\Omega$	$\pm$ 5.0%rdg. $\pm$ 4dgt.	
	42.00M $\Omega$	$\pm$ 10.0%rdg. $\pm$ 4dgt.	
Continuity	420.0 $\Omega$	$\pm$ 2.0%rdg. $\pm$ 6dgt.	Open-circuit voltage Max. 3.4V Threshold: 50 $\Omega$ $\pm$ 30 $\Omega$

\* Contains a monitor battery. Replacement of the monitor battery is not performed free of charge.

## 3244 CARD HiTESTER

(All include TEST LEADS, Carrying case)

# HIOKI


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 In some cases, power lines may carry voltage spikes of several times the normal supply voltage. For reasons of safety, ordinary testers should not be used to measure power lines carrying more than 250V. When measuring such power lines, always use a tester with built-in overcurrent protection to guard against short circuits, such as models 3008 and a device showing the CAT III marking.

Note: The term "power line" refers to the entire electrical circuit providing power to factories, buildings and industrial machines. However, it does not include electrical circuits in ordinary dwellings (lines protected by fuses or circuit breakers).