# HIOKI

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2003 **3256**.51 **3257**.50 **(MEAN, CAT II 1000V) 3257**.51 **(TRMS, CAT II 1000V) DIGITAL HITESTER** Field measuring instruments

CE

# Lock your troubles away

AULA JUA

mA

104

### Shutter mechanism

HIOKI

OFF

UTO,



Voltage ranges



10A range





## Practical functions

I want to see fluctuations with respect to the current value... I want to zero adjust the resistance range...

#### **Relative function**

This setting can be used with the V, A and  $\Omega$  functions

Any value can be set as the reference value and values can be displayed relative to the reference value.



reading

When the built-in

buzzer sounds, indicating that

the display is stable, simply

remove the test

Press for at

least 1 second

Ĩ

I want to keep track of values measured...

#### Memory function (REC.MEMO)

This setting can be used with the V, A,  $\Omega$  and Hz functions Up to 20 data points can be held using this function.

Up to 20 display values obtained with Hold or Automatic Hold can be stored sequentially. Several types of data can be held at once.

I can't see the reading because it is too dark...

I can't check the reading right now...

#### Automatic Hold function (H.AUTO)

This setting can be used with the V, A and  $\Omega$  functions. This function is useful when the device being tested needs to be monitored constantly.

This function can be set to hold the display when the switch is pressed.

I want to read the max/min/average values...

#### Recording function

This setting can be used with the V, A and  $\Omega$  functions.

The display can be switched between the present measurement value and the maximum, minimum, or average values measured since the start of recording. This is useful when observing changes over an extended period of time.



I cannot use the unit because the batteries are dead...

#### Automatic power saver function

Because the LCD goes out when the unit is idle for 10 minutes, unnecessary power consumption is easily avoided. This function can also be disabled.



This function is automatically disabled when recording.



#### ■ 3256 & 3257 common specifications

	Pango	Accuracy		Notes		Overload
	Kaliye	DC	AC	Notes		protection
AC / DC voltage V	420.0 mV	± 0.5%rdg. ± 2dgt.	$\pm 1.5\%$ rdg. $\pm 3$ dgt.	Input impedance	Greater than	DC 1000 V 1000 Vrms(sin) or 10 <sup>7</sup> V Hz 1 minute
	4.200 V		± 1.2%rdg. ± 3dgt. 50Hz to 500Hz		Appox.11 MΩ	
	42.00 V				<sub>Αρροχ.</sub> 10 ΜΩ	
	420.0 V					
	1000 V		$\pm$ 1.2%rdg. $\pm$ 6dgt. 50Hz to 500Hz			
AC / DC current A	42.00 µA	: : ± 1.5%rdg. ± 4dgt. :	± 2.5%rdg. ± 5dgt. Input 50Hz to 500Hz		Appox. $10 \ k\Omega$	3256 40uA to 420mA range
	420.0 µA			Input impedance	Appox.100 Ω	0.5A/700V fuse
	4200 µA					10A/600V fuse
	42.00 mA				Appox. 1 $\Omega$	3237 40μA to 420mA range: 0.44A/1000V fuse 10A range:
	420.0 mA				0.01.0	
	10.00 A	+ 0.70/ #2	la ± 4dat		Appox. $0.01\Omega$	11A/1000V fuse
Resistance $\Omega$	$420.0 \Omega$	± 0.7%fC	ig. ± 40gi.		5.4  vmax.	
	$4200 \text{ k}\Omega$	+ 0.7%rda $+ 2dat$		Open-circuit	Appox. <b>U</b> . 7 V	
	$420.0 \text{ k}\Omega$	± 0.77010	ig. ± 20gt.	terminal		
	4.200 ΜΩ	$\pm$ 1.5%rdg. $\pm$ 2dgt.		voltage	Appox.0.5 V	DC 1000 V 1000 Vrms(sin)
	42.00 MΩ	$\pm$ 2.5%rdg. $\pm$ 2dgt.				
Continuity	420.0 Ω	$\pm$ 0.7%rdg. $\pm$ 4dgt. A built-in buzzer sounds		Open-circuit terminal voltage 3.4 Vmax		10 <sup>7</sup> V Hz
=++		when the resistance value is less than $50\Omega \pm 30 \Omega$		5.4 V IIIux.		1 minute
Diode ➡	2.00 V	$\pm$ 5.0%rdg. $\pm$ 2dgt.		Open terminal voltage/current 3.4 Vmax. Appox.500 µA		
Frequency Hz	0.50Hz to 199.99Hz	$\pm$ 0.02%rdg. $\pm$ 2dgt.		ATT. range 4.2/ 42/ 420/ 1000 V		
	200.0Hz to 500.0kHz	± 0.02%rdg. ± 1dgt.				

• Display: data display; 4200 max. (19999 for frequency range), 42-dot bar graph •Sampling rate: 2.5 samples/sec (for other measurements than in Hz), 5 samples/sec (5 Hz or more), approx. 25 samples/sec (bar graph) • Range selection: automatic and manual ● Ambient temperature / humidity: 0 to 50°C (32°F to 122°F) 80% rh (no condensation) • Storage temperature/ humidity range: -20 to  $60^{\circ}C$  (-4°F to 140°F) 70% rh (no condensation) • Power source: R03 manganese battery×2 or LR03 alkaline battery X2 • Continuous operation: In DC voltage approx. 100 hours (with manganese batteries), approx. 200 hours or more (with alkaline batteries)  $\bullet$  Dimensions and Mass: Approx. 76 W X167 H X 33 D mm, approx. 260g (Approx 3.0" W X 6.6" H X1.3" D, 9.2 oz.) (including batteries)

**AC measurement Accuracy:** In the 3256, ±2 dgt. is added for inputs less than 10% of the full scale Accuracy is not rated for inputs less than 1.0 mV in the 420 mV range.

For the 3257, the accuracy rating is for inputs greater than 10% of full scale.

Measurement times in the 10 A range: continuous up to 7 A, maximum 1 minute for 7 A to 10 A.



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All information correct as of Jan. 11, 2003. All specifications are subject to change without notice.

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