

Continuity Test



Frequency



AC Current



Insulation Resistance



Diode Test



AC Voltage



Temperature



Capacitance



Resistance



DC Current



DC Voltage



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## Note the following WARNINGS and CAUTIONS when using Electric / Electronic Measuring Instruments.

### 1 Safety Symbols



**Caution Symbol** on the instrument indicates that the user should read carefully the operating instructions in the manual.



**High Voltage Warning Symbol** on the instrument indicates that a potential of 1000V or more high voltage may be present on the Terminals. The user should use extreme care about safety practices.



500V MAX

**Maximum Allowable Ground Voltage Symbol** on the instrument indicates that the maximum voltage between INPUT Terminals and Earth Ground is 500V in this case. The user must not apply any voltage that will exceed the maximum voltage.

### 2 Warnings for High Power Line and High Voltage Measurements

The ordinary multimeters, analog or digital, are provided with maximum range of 500V to 1000V AC and DC. But, most of them are designed to measure Low Power Circuits such as TVs, Radios and home electrical apparatus.

Therefore, to measure High Power Circuits or High Power Line more than 220V, such as Power Supplies for Factory Equipments and Facilities, etc., do NOT use any ordinary multimeters. Use the instruments especially designed for High Power Line.

High Power Line sometimes includes Surge Voltage more than 10 times of the rated voltage. So, the Surge Voltage will cause electric shock accidents when measuring with the ordinary multimeters. Even if the circuit to be measured is of Low Power, if the voltage is greater than 220V, use the instruments with great care observing warnings and cautions written in the instruction manuals concerned.

### For Safety

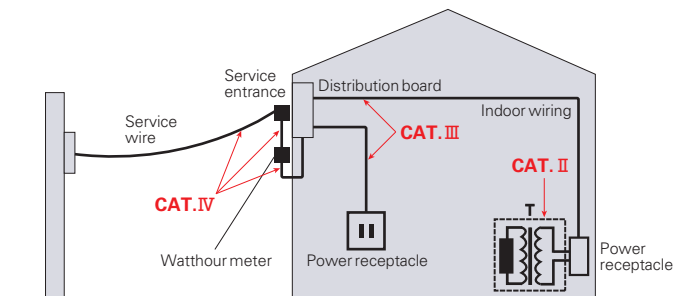
#### The International Safety Standard IEC61010

To ensure safe operation of measurement products, IEC 61010 establishes safety standards for various electrical environments, categorized as CAT II to CAT IV, and called measurement categories. These are defined as follows.

**CAT. II** Primary electrical circuits in equipment connected to an AC electrical outlet by a power cord (portable tools, household appliances, etc)

**CAT. III** Primary electrical circuits of heavy equipment (fixed installations) connected directly to the distribution panel, and feeders from the distribution panel to outlets.

**CAT. IV** The circuit from the service drop to the service entrance, and to the power meter and primary over current protection device (distribution panel).



Higher-numbered categories correspond to electrical environments with greater momentary energy, so a measurement product designed for CAT III environments can endure greater momentary energy than one designed for CAT II. Using a measurement product in an environment designated with a higher-numbered category than that for which the product is rated could result in a severe accident, and must be carefully avoided.

Never use a CAT II measuring product in CAT III, or IV environments.

The measurement categories comply with the Overvoltage Categories of the IEC 60664 Standards.

#### Insulation Cap for Test Lead

**Kaise conforms to IEC 61010-031 (safety standard for hand-held probes) by using test lead caps.**

Required standards : Exposed metal part must be 4mm or shorter for CAT IV and III environments to prevent short-circuits from occurring.

**No Cap attached**



**Cap attached**



### CE Mark

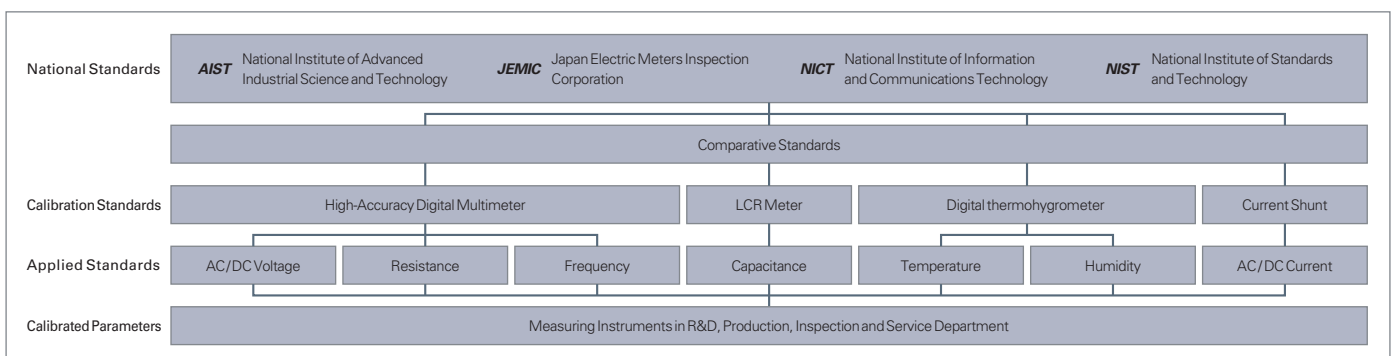


CE marking is a safety mark which can be attached only on a product meeting the safety requirements of the Directive of Council of the European Union (EC Directive).

A product attached with the CE mark is designed so as to meet the requirements of the "Low Voltage Directive" and "EMC Directive" of the EC Directive. Low Voltage Directive: This Directive covers products of power supply voltage of 50V-1000V(AC) and 75V-1500V(DC), and it defines electric safety requirements against shocks, burns, etc. The applicable standard is EN61010 corresponding to IEC1010 given on the left. EMC Directive: This Directive stipulates conditions so as not to give out strong electromagnetic waves from equipment to the outer environment and to protect equipment from the effect of electromagnetic waves from the outside.





### Traceability Chart

Traceability to prove the compliance with national and international standards is an essential factor for measuring instruments used as test instruments associated with quality assurance. Products of Kaise are calibrated by reference samples which is periodically checked for its compliance with national standards. A calibration certificate and test data report are available on your request.










## Clamp Meters Index

	AC / DC Digital Clamp Meters			
				
Model	SK-7660	SK-7661	SK-7682	SK-7718
Display Counts	4000	4000	4000	4000
Conductor Diameter	φ 27mm	φ 27mm	φ 19mm	φ 35mm
DC Current	40A	40A	40A	400A
	400A	400A	400A	1000A
	—	—	—	—
AC Current	40A	40A	40A	400A
	400A	400A	400A	1000A
	—	—	—	—
	—	—	—	—
DC Voltage	400mV	400mV	400mV	400mV
	4V	4V	4V	4V
	40V	40V	40V	40V
	400V	400V	400V	400V
	600V	600V	600V	600V
AC Voltage	4V	4V	4V	4V
	40V	40V	40V	40V
	400V	400V	400V	400V
	600V	600V	600V	600V
Resistance	400Ω	400Ω	—	400Ω
	4kΩ	4kΩ	—	4kΩ
	40kΩ	40kΩ	—	40kΩ
	400kΩ	400kΩ	—	400kΩ
	4MΩ	4MΩ	—	4MΩ
	40MΩ	40MΩ	—	40MΩ
Frequency	●	●	●	●
Duty Cycle	●	●	●	●
Pulse Width	—	—	—	—
Continuity Test	●	●	—	●
Diode Test	●	●	—	●
Capacitance	●	●	—	●
Temperature	—	—	—	—
True RMS	●	—	●	●
Auto Ranging	●	●	●	●
Manual Ranging	—	—	—	—
MAX / MIN	—	●	●	●
Average	—	—	—	—
Peak Hold	●	—	●	●
Range Hold	—	—	—	—
Difference	●	●	●	●
Display Hold	●	●	●	●
Power-On Initialize	●*1	●*1	●*1	●*1
Comparator	—	—	—	—
Low Pass Filter	—	—	—	—
Output Terminal	—	—	—	—
External Power Supply	—	—	—	—
Dust Proof & Simple Water Resistant	—	—	—	●
Auto Power Save (Off)	●	●	●	●






\*1 : for DC Current measurement

## Clamp Meters Index

	AC / DC Digital Clamp Meters			AC Digital Clamp Meters	
					
Model	SK-7720	SK-7722	SK-7708	SK-7601	SK-7602
Display Counts	4000	4000	4000	4000	4000
Conductor Diameter	φ 36mm	φ 36mm	φ 55mm	φ 27mm	φ 27mm
DC Current	400A	400A	400A	—	—
	1000A	1000A	2000A	—	—
	—	—	—	—	—
AC Current	400A	400A	400A	40A	40A
	1000A	1000A	2000A	300A	400A
	—	—	—	—	—
	—	—	—	—	—
DC Voltage	400V	40V	400mV	—	400mV
	650V	250V	4V	—	4V
	—	—	40V	—	40V
	—	—	400V	—	400V
	—	—	600V	—	600V
AC Voltage	400V	40V	4V	—	4V
	650V	250V	40V	—	40V
	—	—	400V	—	400V
	—	—	600V	—	600V
Resistance	4000Ω	4000Ω	400Ω	—	400Ω
	20kΩ	20kΩ	4kΩ	—	4kΩ
	—	—	40kΩ	—	40kΩ
	—	—	400kΩ	—	400kΩ
	—	—	4MΩ	—	4MΩ
	—	—	40MΩ	—	40MΩ
Frequency	●	●	●	—	●
Duty Cycle	●	●	●	—	●
Pulse Width	●	●	—	—	—
Continuity Test	—	—	●	—	●
Diode Test	—	—	●	—	●
Capacitance	—	—	●	—	●
Temperature	●	●	—	—	—
True RMS	●	●	●	—	●
Auto Ranging	●	●	●	●	●
Manual Ranging	—	—	●	—	—
MAX / MIN	●	●	●	—	●
Average	—	—	—	—	—
Peak Hold	●	●	●	—	—
Range Hold	—	—	●	—	—
Difference	●	●	●	—	●
Display Hold	●	●	●	●	●
Power-On Initialize	—	—	●*1	—	—
Comparator	—	—	—	—	—
Low Pass Filter	—	—	—	—	—
Output Terminal	—	●	—	—	—
External Power Supply	—	●	—	—	—
Dust Proof & Simple Water Resistant	●	●	●	—	—
Auto Power Save (Off)	—	—	●	●	●

\*1 : for DC Current measurement

## Clamp Meters Index

	AC Digital Clamp Meters		AC Leakage Clamp Meters		
					
<b>Model</b>	<b>SK-7615</b>	<b>SK-7625</b>	<b>SK-7815</b>	<b>SK-7820</b>	<b>SK-7825</b>
<b>Display Counts</b>	2000	2000	3200	4000	4000
<b>Conductor Diameter</b>	φ 26mm	φ 42mm	φ 30mm	φ 24mm	φ 40mm
<b>DC Current</b>	—	—	—	—	—
	—	—	—	—	—
	—	—	—	—	—
<b>AC Current</b>	2A	2A	30mA	40mA	40mA
	20A	20A	300mA	400mA	400mA
	200A	200A	30A	40A	40A
	400A	600A	60A	100A	100A
<b>DC Voltage</b>	200mV	200mV	—	—	—
	2V	2V	—	—	—
	20V	20V	—	—	—
	200V	200V	—	—	—
	600V	600V	—	—	—
<b>AC Voltage</b>	2V	2V	300V	400V	400V
	20V	20V	600V	600V	600V
	200V	200V	—	—	—
	600V	600V	—	—	—
<b>Resistance</b>	200Ω	200Ω	—	—	—
	2kΩ	2kΩ	—	—	—
	20kΩ	20kΩ	—	—	—
	200kΩ	200kΩ	—	—	—
	2MΩ	2MΩ	—	—	—
	20MΩ	20MΩ	—	—	—
<b>Frequency</b>	—	—	—	—	—
<b>Duty Cycle</b>	—	—	—	—	—
<b>Pulse Width</b>	—	—	—	—	—
<b>Continuity Test</b>	●	●	—	—	—
<b>Diode Test</b>	●	●	—	—	—
<b>Capacitance</b>	—	—	—	—	—
<b>Temperature</b>	—	—	—	—	—
<b>True RMS</b>	—	—	—	—	—
<b>Auto Ranging</b>	●*2	●*2	●	●*3	●*3
<b>Manual Ranging</b>	—	—	—	—	—
<b>MAX / MIN</b>	—	—	●	—	—
<b>Average</b>	—	—	—	—	—
<b>Peak Hold</b>	—	—	—	—	—
<b>Range Hold</b>	—	—	—	—	—
<b>Difference</b>	—	—	—	—	—
<b>Display Hold</b>	●	●	●	●	●
<b>Power-On Initialize</b>	—	—	—	—	—
<b>Comparator</b>	—	—	●	●(with Vibration)	●(with Vibration)
<b>Low Pass Filter</b>	—	—	●	●	●
<b>Output Terminal</b>	—	—	—	—	—
<b>External Power Supply</b>	—	—	—	—	—
<b>Dust Proof &amp; Simple Water Resistant</b>	—	—	—	—	—
<b>Auto Power Save (Off)</b>	●	●	●	●	●

\*2 : Two-ranges auto for ACA.

\*3 : mA / A : switch selection



## SK-7660 / SK-7661

### FEATURES

- 15 measurement functions in one small package.
- "Power-On Initialize" (auto zero adjustment) in DCA.
- Rubber-molded rotary switch and trigger.
- Easy-to-clamp compact & beaked clamp head even for narrow conductors.
- True RMS and peak hold (SK-7660), MAX/MIN (SK-7661)

### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 4050
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Conductor Diameter	: $\phi$ 27mm Max.
Power Supply	: 1.5V R03 or AAA Batteries (x 2)
CE Mark	: CAT III 300V, CAT II 600V and EMC
Dimensions	: 170(H) x 58(W) x 27(D)mm
Weight	: 160g
Accessories	: 100-63 Test Leads (x 1 set) 1015 Carrying Case (x 1) 1.5V R03 Batteries (x 2)

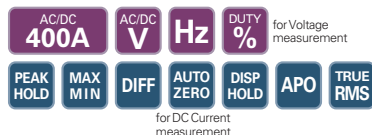
### OPTIONAL ACCESSORIES

- 880 Line Separator
- 940 Alligator Clips
- 948 Alligator Clips
- 793 Coil-Type Contact Pin

		Range	Accuracy
$\bar{A} / \bar{A}$ Hz	DC Current	40A	$\pm 1.5\% \text{rdg} \pm 3 \text{dgt}$
		400A	40 to 200A $\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$ 201 to 300A $\pm 3.0\% \text{rdg} \pm 3 \text{dgt}$ 301 to 400A $\pm 4.0\% \text{rdg} \pm 3 \text{dgt}$
	AC Current*	40A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$ (50/60Hz)
		400A	40 to 200A $\pm 2.0\% \text{rdg} \pm 3 \text{dgt}$ (50/60Hz) 201 to 300A $\pm 4.0\% \text{rdg} \pm 5 \text{dgt}$ (50/60Hz) 301 to 400A $\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$ (50/60Hz)
	Frequency	5Hz to 1kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$
$\bar{V} / \bar{V}$ Hz / %	DC Voltage	400mV	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$
		4V	$\pm 1.0\% \text{rdg} \pm 2 \text{dgt}$
		40V	
		400V	
	600V	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$ (40 to 400Hz)	
	AC Voltage		4V
			40V
Frequency	400V	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	
	600V		
Duty Cycle	5Hz to 49.99kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	
Resistance	Resistance	5% to 95%	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$
		400 $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
		4k $\Omega$	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$
		40k $\Omega$	$\pm 1.2\% \text{rdg} \pm 5 \text{dgt}$
		400k $\Omega$	$\pm 3.0\% \text{rdg} \pm 5 \text{dgt}$
		4M $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
Continuity Test	40M $\Omega$	$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$	
	400 $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	
Diode Test	Buzzer Sound : Approx. 50 $\Omega$ or less		
Capacitance	0 to 1.5V $\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$		
	Open Circuit Voltage : $\leq 1.7V$		
Functions	50 / 500nF / 5 / 50 / 100 $\mu F$ ( $\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$ )		
	Peak Hold (SK-7660), MAX / MIN (SK-7661), Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power OFF		

\*Frequency Characteristic (40 to 400Hz) : 40A Range (0.5 to 9A) add 1.5% (10 to 40A) add 0.5%  
400A Range add 1.0%

## Focused on High-Flexibility



## SK-7682

### FEATURES

- Usable for Automotive Measurements.
- Peak Current and Peak Voltage.
- Max / Min and Difference Measurements.

### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 4050
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Conductor Diameter	: $\phi$ 19mm Max.
Power Supply	: 1.5V R6P or AA Batteries (x 2)
CE Mark	: CAT III 300V and EMC
Dimensions	: 196(H) x 59(W) x 30(D) mm
Weight	: 180g
Accessories	: 100-57 Test Leads (x 1 set) 940 Alligator Clips (x 1 set) 1011 Carrying Case (x 1) 1.5V R6P Batteries (x 2)

### OPTIONAL ACCESSORIES

- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 948 Alligator Clips
- 793 Coil-Type Contact Pin

		Range	Accuracy
$\overline{\overline{A}} / \widetilde{A} / \text{Hz}$	DC Current	40A	$\pm 1.5\% \text{rdg} \pm 3 \text{dgt}$
		400A	40 to 200A $\pm 2.0\% \text{rdg} \pm 3 \text{dgt}$ 201 to 400A $\pm 4.0\% \text{rdg} \pm 3 \text{dgt}$
	AC Current	40A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
		400A	36 to 200A $\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ 201 to 400A $\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$
	Frequency	5Hz to 1kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$
$\overline{\overline{V}} / \widetilde{V} / \%$	DC Voltage	400mV	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$
		4V	$\pm 1.0\% \text{rdg} \pm 2 \text{dgt}$
		40V	
		400V	
		600V	
	AC Voltage	4V	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
		40V	
		400V	
600V			
Frequency	1Hz to 49.99kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	
Duty Cycle	0% to 99.9%	$\pm 0.5\% \text{rdg} \pm 5 \text{dgt}$	
Functions		MAX / MIN, Peak Hold, Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power Off	



## SK-7718 TRUE RMS

### FEATURES

- AC / DC 1000A Measurements
- "Power-On Initialize" (auto zero adjustment) for DCA.
- MAX / MIN, Difference, Peak Hold
- Dust-proof case is used to protect the tester from dust damage.

### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 9999
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Conductor Diameter	: $\phi$ 35mm Max.
Power Supply	: 9V 6F22 Battery (x 1)
CE Mark	: CAT III 600V and EMC
Dimensions	: 193(H) x 60(W) x 34.5(D) mm
Weight	: 300g
Accessories	: 100-57 Test Leads (x 1 set) 1012 Carrying Case (x 1) 9V 6F22 Battery (x 1)

### OPTIONAL ACCESSORIES

880 Line Separator	940 Alligator Clips
100-41 Test Lead Kit	948 Alligator Clips
100-62 Test Lead Set	793 Coil-Type Contact Pin

		Range	Accuracy
$\sim$ A / $\bar{A}$ Hz	AC Current	400A	$\pm 1.5\%rdg \pm 5dgt$
		1000A	400 to 600A $\pm 1.5\%rdg \pm 5dgt$ 601 to 1000A $\pm 3.0\%rdg \pm 5dgt$
	DC Current	400A	$\pm 1.5\%rdg \pm 3dgt$
		1000A	400 to 600A $\pm 1.5\%rdg \pm 3dgt$ 601 to 1000A $\pm 3.0\%rdg \pm 3dgt$
$\sim$ V / $\bar{V}$ Hz $\cdot$ %	Frequency	1Hz to 1kHz	$\pm 0.2\%rdg \pm 2dgt$
		4V	
		40V	$\pm 1.0\%rdg \pm 5dgt$ (40Hz to 400Hz)
		400V	
	DC Voltage	600V	
		400mV	
		4V	$\pm 1.0\%rdg \pm 3dgt$
		40V	
Resistance	Frequency	400V	
		600V	
		1Hz to 49.99kHz	$\pm 0.2\%rdg \pm 2dgt$
		Duty Cycle	10% to 90% $\pm 2.0\%rdg \pm 2dgt$
	Resistance	400 $\Omega$	$\pm 1.5\%rdg \pm 5dgt$
		4k $\Omega$	
		40k $\Omega$	$\pm 1.0\%rdg \pm 3dgt$
		400k $\Omega$	
Continuity Test	Resistance	4M $\Omega$	$\pm 4.0\%rdg \pm 5dgt$
		40M $\Omega$	$\pm 6.0\%rdg \pm 5dgt$
		400 $\Omega$ (Buzzer Sound : Approx. 50 $\Omega$ or less)	
		Diode Test	0 to 1.5V $\pm 5.0\%rdg \pm 5dgt$ Open Circuit Voltage : $\leq 1.7V$
Capacitance	Capacitance	50 / 500nF / 5 / 50 / 100 $\mu F$	$\pm 5.0\%rdg \pm 10dgt$
		Functions	Peak Hold, MAX / MIN, Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power OFF

## 2 Channel Measurements on Dual Display LCD and Oscilloscope Connection



## SK-7720 TRUE RMS / SK-7722 TRUE RMS

### FEATURES

- Two different elements can be measured at once and read on a bigger Dual Display LCD.
- Analog Output Terminal for an Oscilloscope or Recorder (SK-7722).
- Dust-proof case is used to protect the tester from dust damage.

### OPTIONAL ACCESSORIES

818 Temperature Probe	100-62 Test Lead Set
880 Line Separator	940 Alligator Clips
922 DC Adapter Cable	948 Alligator Clips
930 Output Cord for Recorder (SK-7722)	793 Coil-Type Contact Pin
100-41 Test Lead Kit	

### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 9999
Sampling Rate	: 15 times / sec. (each channel), 3.75 times / sec. for $\bar{A} + \bar{V}$ measurements in ordinary mode.
Range Selection	: Auto Ranging
Conductor Diameter	: $\phi$ 36mm Max.
Power Supply	: 9V 6F22 or NEDA 1604 Battery (x 1)
Dimensions	: 200(H) x 64(W) x 33(D) mm
Weight	: 310g
Accessories	: 100-57 Test Leads (x 1 set) 1007 Carrying Case (x 1), 9V 6F22 Battery (x 1)

		SK-7720		SK-7722	
$\bar{A} + \bar{V}$	DC Current	Range	Accuracy	Range	Accuracy
		400A / 1000A	400.0A $\pm 1.5\%rdg \pm 3dgt$ 400 to 600A $\pm 1.5\%rdg \pm 1dgt$ 601 to 1000A $\pm 3.0\%rdg \pm 3dgt$		
	DC Voltage	Range	Accuracy	Range	Accuracy
		400V / 650V	400V $\pm 1.0\%rdg \pm 3dgt$ 650V $\pm 1.0\%rdg \pm 1dgt$	40V / 250V	40V $\pm 1.0\%rdg \pm 3dgt$ 250V $\pm 1.0\%rdg \pm 1dgt$
$\bar{A} + Hz$	AC Current	400A / 1000A	400.0A $\pm 1.5\%rdg \pm 3dgt$ 400 to 600A $\pm 1.5\%rdg \pm 1dgt$ 601 to 1000A $\pm 3.0\%rdg \pm 3dgt$	50Hz to 60Hz	40Hz to 400Hz
		Frequency	$\pm 0.5\%rdg \pm 1dgt$	$\pm 1.5\%rdg \pm 3dgt$	$\pm 2.5\%rdg \pm 3dgt$
		Duty Cycle	0.0% to 99.9% $\pm 3.0\%rdg \pm 3dgt$	$\pm 1.5\%rdg \pm 1dgt$	$\pm 2.5\%rdg \pm 1dgt$
		Pulse Width	1.0mS to 999.9mS $\pm 0.5\%rdg \pm 3dgt$	$\pm 3.0\%rdg \pm 3dgt$	$\pm 4.0\%rdg \pm 3dgt$
$\bar{V} + Hz$	AC Voltage	400V / 650V	$\pm 1.0\%rdg \pm 3dgt$ (50Hz to 60Hz) $\pm 1.5\%rdg \pm 3dgt$ (40Hz to 400Hz)	40V / 250V	$\pm 1.0\%rdg \pm 3dgt$ (50Hz to 60Hz) $\pm 1.5\%rdg \pm 3dgt$ (40Hz to 400Hz)
		Frequency	$\pm 0.5\%rdg \pm 1dgt$		
		Duty Cycle	0.0% to 99.9% $\pm 3.0\%rdg \pm 3dgt$		
		Pulse Width	1.0mS to 999.9mS $\pm 0.5\%rdg \pm 3dgt$		
Resistance	Resistance	4000 $\Omega$	$\pm 1.0\%rdg \pm 3dgt$		
		20k $\Omega$	$\pm 1.0\%rdg \pm 1dgt$		
Temperature	Temperature	-30 $^{\circ}C$ to 150 $^{\circ}C$	$\pm 1.0\%rdg \pm 3dgt$		
		Functions	Peak Hold, MAX / MIN, Difference, Display Hold, Output Terminal (SK-7722)		



## AC / DC Digital Clamp Meters

Powerful for Every Measurement



### SK-7708 TRUE RMS

#### FEATURES

- "Power-On Initialize" (auto zero adjustment) for DCA.
- Peak Hold, MAX / MIN measurements.
- Dust-proof case is used to protect the tester from dust damage.

#### OPTIONAL ACCESSORIES

880 Line Separator  
100-41 Test Lead Kit  
100-62 Test Lead Set  
940 Alligator Clips  
948 Alligator Clips  
793 Coil-Type Contact Pin

#### SPECIFICATIONS

Display : 4000 count LCD,  
Maximum reading 5120  
Sampling Rate : 3 times / sec  
Range Selection : Auto / Manual Ranging  
Conductor Diameter :  $\phi$  55mm Max.  
Power Supply : 9V 6F22 Battery (x 1)  
CE Mark : CAT III 600V and EMC  
Dimensions : 250(H) x 92(W) x 39(D) mm  
Weight : 500g  
Accessories : 100-57 Test Leads (x 1 set)  
1007 Carrying Case (x 1)  
9V 6F22 Battery (x 1)

	Range	Accuracy
$\tilde{A}/\bar{A}$ Hz	AC Current 400A	50Hz to 60Hz $\pm 1.5\%rdg \pm 5dgt$
	2000A	40Hz to 1kHz $\pm 3.0\%rdg \pm 5dgt$
	DC Current 400A	0 to 1000A $\pm 1.5\%rdg \pm 5dgt$
	2000A	1001A or more $\pm 3.0\%rdg \pm 5dgt$
$\tilde{V}/\bar{V}$ Hz %	Frequency 1Hz to 4.999kHz	$\pm 0.2\%rdg \pm 2dgt$
	AC Voltage 4V / 40V / 400V / 600V	40Hz to 400Hz $\pm 1.5\%rdg \pm 5dgt$
	400mV / 4V / 40V / 400V / 600V	401Hz to 1kHz $\pm 3.0\%rdg \pm 5dgt$
	DC Voltage 1Hz to 100kHz	$\pm 1.2\%rdg \pm 3dgt$
Resistance	Duty Cycle 0.1% to 99.9%	$\pm 0.2\%rdg \pm 2dgt$
	400 $\Omega$	$\pm 2.0\%rdg \pm 2dgt$
	4k $\Omega$ / 40k $\Omega$ / 400k $\Omega$	$\pm 1.5\%rdg \pm 5dgt$
	4M $\Omega$	$\pm 1.0\%rdg \pm 3dgt$
Continuity Test	40M $\Omega$	$\pm 3.0\%rdg \pm 4dgt$
	400 $\Omega$	$\pm 5.0\%rdg \pm 7dgt$
	Buzzer Sound : Approx. 50 $\Omega$ or less	$\pm 1.5\%rdg \pm 5dgt$
	Diode Test 0 to 1.5V	$\pm 5.0\%rdg \pm 5dgt$
Capacitance	Open Circuit Voltage : $\leq 1.7V$	
	50 / 500nF / 5 / 50 / 100 $\mu F$	$\pm 5.0\%rdg \pm 10dgt$
Functions	MAX / MIN, Peak Hold, Difference, Power-on Initialize (for DC Current measurement), Range Hold, Display Hold, Auto Power Save	

## AC Digital Clamp Meters

Pocket-sized Clamp Meter



### SK-7601

#### FEATURES

- Simple operation.
- Strong and beaked Clamp Head against twists.
- AUTO POWER OFF : turns off automatically after 12 minutes.
- Full Auto Ranging up to 300A AC.
- DISPLAY HOLD Function.
- With Carrying Case.

#### OPTIONAL ACCESSORY

880 Line Separator

#### SPECIFICATIONS

Display : 4000 count LCD,  
Maximum reading 4000  
Sampling Rate : 2.5 times / sec  
Range Selection : Auto Ranging  
Conductor Diameter :  $\phi$  27mm Max.  
Power Supply : 3V CR2032 Battery (x 1)  
CE Mark : CAT III 300V and EMC  
Dimensions : 150(H) x 52(W) x 24(D)mm  
Weight : 110g  
Accessories : 1004 Carrying Case (x 1)  
3V CR2032 Battery (x 1)

	Range	Accuracy
AC Current	40A	±1.8%rdg±5dgt
	300A	
Functions	Display Hold, Auto Power OFF	

## AC Digital Clamp Meters

Multi-functional Handy Clamp with Long Battery Life



### SK-7602 TRUE RMS

#### FEATURES

- 220-hours long time measurement. (with alkaline cells)
- 13 measurement functions in one small package.
- Rubber-molded rotary switch and trigger.
- Easy-to-clamp compact & beaked clamp head even for narrow conductors.
- True RMS, MAX/MIN and Difference measurement.

#### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 4050
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Conductor Diameter	: $\phi$ 27mm Max.
Power Supply	: 1.5V R03 or AAA Batteries (x 2)
CE Mark	: CAT III 300V, CAT II 600V and EMC
Dimensions	: 171(H) x 58(W) x 27(D)mm
Weight	: 140g
Accessories	: 100-63 Test Leads (x 1 set) 1015 Carrying Case (x 1) 1.5V R03 Batteries (x 2)

#### OPTIONAL ACCESSORIES

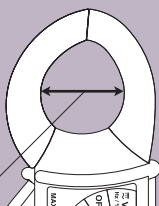
880 Line Separator	948 Alligator Clips
940 Alligator Clips	793 Coil-Type Contact Pin

		Range	Accuracy
$\sim$ A / Hz	AC Current	40A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$ (50Hz/60Hz)
	Frequency	400A	$\pm 3.0\% \text{rdg} \pm 5 \text{dgt}$ (40Hz to 400Hz)
$\bar{\sim}$ V / $\sim$ V	DC Voltage	5Hz to 1kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$
		400mV	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$
		4V	
		40V	$\pm 1.0\% \text{rdg} \pm 2 \text{dgt}$
		400V	
	AC Voltage	600V	
		4V	
		40V	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$ (40Hz to 400Hz)
		400V	
		600V	
Resistance	Frequency	5Hz to 49.99kHz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$
	Duty Cycle	5% to 95%	$\pm 2.0\% \text{rdg} \pm 3 \text{dgt}$
		400 $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
		4k $\Omega$	
		40k $\Omega$	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$
Continuity Test		400k $\Omega$	
		4M $\Omega$	$\pm 1.2\% \text{rdg} \pm 5 \text{dgt}$
		40M $\Omega$	$\pm 3.0\% \text{rdg} \pm 5 \text{dgt}$
		400 $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
Diode Test		Buzzer Sound : Approx. 50 $\Omega$ or less	
Capacitance		0 to 1.5V	$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$
Functions		Open Circuit Voltage : $\leq 1.7V$	
		50 / 500nF / 5 / 50 / 100 $\mu$ F	$(\pm 5.0\% \text{rdg} \pm 10 \text{dgt})$
		MAX / MIN, Difference, Display Hold, Auto Power OFF	

#### Easy & Useful

##### Easy - to - Clamp

SK-7602's compact and beaked clamp heads assure easy clamping even for narrow conductors.



$\phi$  27mm MAX

##### Avoid Your Fingers Slips

SK-7602 are always fit on your hand. Double-Molding Rubbers on a Function Switch and a Trigger avoid your fingers slips during operation.

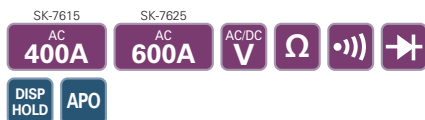
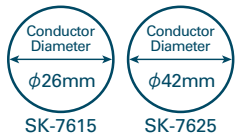


##### Test Lead Holder

Fixable Test Lead on the side of SK-7602 by inserting its hook into the holder socket. Useful for Voltage, Resistance, Capacitance Measurements, Continuity and Diode Tests.



High Quality Clamp Meter that contains DMM functions



### SK-7615/SK-7625

#### FEATURES

- Round Clamp Head opens two ways at slant position assures accuracy and easy use.
- Easy Operation with Rotary Switch.
- Wide Measurement Ranges.

#### SPECIFICATIONS

Display	: 2000 count LCD, Maximum reading 1999
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging (two-ranges auto for ACA)
Conductor Diameter	: SK-7615 : $\phi$ 26mm Max. SK-7625 : $\phi$ 42mm Max.
Power Supply	: 1.5V LR-44 Batteries (x 2)
Dimensions	: SK-7615 : 171(H) x 72(W) x 35(D) mm SK-7625 : 183(H) x 78(W) x 35(D) mm
Weight	: SK-7615 : 180g, SK-7625 : 210g
Accessories	: 100-57 Test Leads (x 1 set) 983 Carrying Case (x 1) 1.5V LR-44 Batteries (x 2)

		Range	Accuracy
AC Current (SK-7615)	2A/20A	2A	$\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$
	20A	20A	$\pm 2.0\% \text{rdg} \pm 7 \text{dgt}$
	200A/400A	200A	$\pm 1.5\% \text{rdg} \pm 7 \text{dgt}$
AC Current (SK-7625)	2A/20A	2A	$\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$
	20A	20A	$\pm 2.0\% \text{rdg} \pm 7 \text{dgt}$
	200A/600A	200A	$\pm 1.5\% \text{rdg} \pm 7 \text{dgt}$
AC Voltage	2V/20V/200V/600V		$\pm 1.0\% \text{rdg} \pm 5 \text{dgt}$
	200mV		$\pm 0.5\% \text{rdg} \pm 2 \text{dgt}$
DC Voltage	2V/20V/200V		$\pm 0.8\% \text{rdg} \pm 2 \text{dgt}$
	600V		$\pm 1.0\% \text{rdg} \pm 2 \text{dgt}$
Resistance	200 $\Omega$ /2k $\Omega$ /20k $\Omega$ /200k $\Omega$		$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
	2M $\Omega$		$\pm 3.0\% \text{rdg} \pm 5 \text{dgt}$
	20M $\Omega$		$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$
Continuity Test	200 $\Omega$ (Buzzer Sound : Approx. 60 $\Omega$ or less)		
Diode Test	1.000V		$\pm 5.0\% \text{rdg} \pm 3 \text{dgt}$
Functions	Open Circuit Voltage : $\leq 1.7V$		
	Display Hold, Auto Power OFF		

#### OPTIONAL ACCESSORIES

880 Line Separator	940 Alligator Clips
100-41 Test Lead Kit	948 Alligator Clips
100-62 Test Lead Set	793 Coil-Type Contact Pin



SK-7615

## Leakage Clamp with Comparator



### SK-7815

#### FEATURES

- Easy to read LCD.
- Comparator : 1mA to 20mA setting. Buzzer sounds when measured value exceeds the set point.
- Max / Min Measurement.
- Low Pass Filter cuts off frequencies higher than 150Hz.
- Display Hold & Auto Power Save.
- Power Hold enables longer measurements.
- CE Mark is approved, EMC and LVD (IEC-1010-1) passed.

#### SPECIFICATIONS

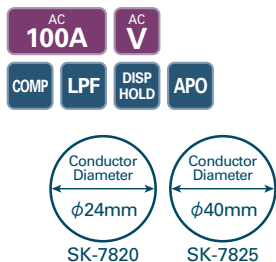
Display : 3200 count LCD, Maximum reading 3200  
 Sampling Rate : 2 times / sec  
 Range Selection : Auto Ranging  
 Conductor Diameter :  $\phi$  30mm Max.  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : CAT III 300V and EMC  
 Dimensions : 212(H) x 42(W) x 30(D) mm  
 Weight : 220g  
 Accessories : 100-32 Test Leads (x 1 set)  
 1011 Carrying Case (x 1)  
 1.5V R6P Batteries (x 2)

#### OPTIONAL ACCESSORIES

880 Line Separator  
 100-41 Test Lead Kit  
 100-62 Test Lead Set  
 940 Alligator Clips  
 948 Alligator Clips  
 793 Coil-Type Contact Pin

	Range	Accuracy
AC Current	30mA	$\pm 1.0\% \text{rdg} \pm 5 \text{dgt}$
	300mA	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
	30A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
	60A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
AC Voltage	0A to 270A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
	271A to 50.00A	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$
	50.1A to 60.0A	$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$
AC Voltage	300V / 600V	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$
Functions	MAX / MIN, Comparator (up to 20mA), Low pass filter, Display Hold, Auto Power Save	

## The World's First Vibration Alert Comparator Installed



### SK-7820 / SK-7825

#### FEATURES

- Wide range from 40mA to 100A AC.
- Vibration and buzzer comparator convenient in noisy surroundings.
- Low pass filter (cutoff 150Hz or more)
- 100-hours continuous measurement (with alkaline cells)
- Rubber-molded rotaty switch and trigger neatly fit in your hand.

#### OPTIONAL ACCESSORIES

880 Line Separator 948 Alligator Clips  
 940 Alligator Clips 793 Coil-Type Contact Pin

#### SPECIFICATIONS

Display : 4000 count LCD, Maximum reading 4050  
 Sampling Rate : 2 times / sec  
 Range Selection : Auto Ranging (mA / A : switch selection)  
 Conductor Diameter : SK-7820:  $\phi$  24mm Max., SK-7825:  $\phi$  40mm Max.  
 Power Supply : 1.5V (L) R03 or AAA Batteries (x 2)  
 CE Mark : CAT III 300V, CAT II 600V and EMC  
 Dimensions : SK-7820: 168(H) x 58(W) x 27(D) mm  
 SK-7825: 184(H) x 58(W) x 27(D) mm  
 Weight : SK-7820: 170g, SK-7825: 180g  
 Accessories : 100-63 Test Leads (x 1 set)  
 1020 Carrying Case (x 1), 1.5V LR03 Batteries (x 2)

	Range	Accuracy (50/60Hz)	Filter ON (50/60Hz)	Frequency Characteristic (40 to 400Hz)
AC Current	40mA / 400mA	0.10mA to 1.00mA $\pm 1.0\% \text{rdg} \pm 7 \text{dgt}$ 1.01mA or more $\pm 1.0\% \text{rdg} \pm 5 \text{dgt}$	add $\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$	add $\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$
	40A	0.10A to 1.00A $\pm 2.0\% \text{rdg} \pm 7 \text{dgt}$ 1.01A or more $\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$		
	100A	40.1A to 80.0A $\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ 80.1A to 100.0A $\pm 4.0\% \text{rdg} \pm 5 \text{dgt}$		
	AC Voltage	400V / 600V 5.0V to 10.0V $\pm 2.0\% \text{rdg} \pm 7 \text{dgt}$ 10.1V or more $\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$		
Functions	Vibration alert comparator, Low pass filter, Display Hold, Auto Power OFF			

#### Advantages of SK-7820 / 7825

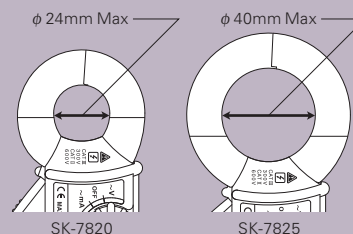
##### Vibration Alert Comparator

SK-7820 / 7825 incorporate Comparator Function in  $\sim$ mA range. Buzzer sounds and vibrates if measuring value exceeds the setting value. Even in noisy surroundings, that can drown out the buzzer sound, vibration helps your comparator measurement. (Vibration alert is cancelable.)













##### Two-types-of Clamp Head

SK-7820's small clamp head assures easy clamping even for narrow conductors. SK-7825's large clamp head is suitable for thick conductors' measurement like 3-phase 3-wire system.



## Insulation Testers Index

					
<b>Model</b>	<b>SK-3500</b>	<b>SK-3502</b>	<b>SK-3000</b>	<b>SK-3002</b>	<b>SK-3003</b>
<b>Digital / Analog</b>	Digital	Digital	Analog	Analog	Analog
<b>Measurement Ranges</b>	4-Ranges	4-Ranges	2-Ranges	2-Ranges	2-Ranges
<b>Insulation Resistance</b>	50V	125V	100V	250V	500V
	125V	250V	250V	500V	1000V
	250V	500V	—	—	—
	500V	1000V	—	—	—
<b>Low Resistance</b>	●	●	—	—	—
<b>DC Voltage</b>	●	●	—	—	—
<b>AC Voltage</b>	●	●	●	●	●
<b>Continuity Test</b>	—	—	—	—	—
<b>Comparator</b>	●	●	—	—	—
<b>Data Memory</b>	●	●	—	—	—
<b>Timer</b>	●	●	●	●	●
<b>Live wire warning</b>	●	●	—	—	—
<b>Safety lock</b>	●	●	—	—	—
<b>High voltage warning</b>	●	●	—	—	—
<b>Automatic discharge</b>	●	●	—	—	—
<b>Display hold</b>	●	●	—	—	—
<b>Zero-ohm adjustment</b>	●	●	—	—	—
<b>Auto power save</b>	●	●	—	—	—

					
<b>Model</b>	<b>SK-3010</b>	<b>SK-3012</b>	<b>SK-3013</b>	<b>SK-3016</b>	<b>SK-3320</b>
<b>Digital / Analog</b>	Analog	Analog	Analog	Analog	Analog
<b>Measurement Ranges</b>	2-Ranges	2-Ranges	2-Ranges	2-Ranges	3-Ranges
<b>Insulation Resistance</b>	50V	250V	500V	500V	250V
	125V	500V	1000V	1000V	500V
	—	—	—	—	1000V
	—	—	—	—	—
<b>Low Resistance</b>	—	—	—	●	—
<b>DC Voltage</b>	—	—	—	—	—
<b>AC Voltage</b>	●	●	●	●	●
<b>Continuity Test</b>	—	—	—	●	—
<b>Comparator</b>	—	—	—	—	—
<b>Data Memory</b>	—	—	—	—	—
<b>Timer</b>	●	●	●	●	●
<b>Live wire warning</b>	●	●	●	●	●
<b>Safety lock</b>	—	—	—	—	—
<b>High voltage warning</b>	●	●	●	●	●
<b>Automatic discharge</b>	●	●	●	●	●
<b>Display hold</b>	—	—	—	—	—
<b>Zero-ohm adjustment</b>	—	—	—	—	—
<b>Auto power save</b>	—	—	—	—	—





### SK-3500/SK-3502

#### FEATURES

- Wide Range of Insulation Measurement with Enhanced Safety.
- Comparator Function.
- Data Memory Function. (up to 100 data)

#### SPECIFICATIONS

Display	: 4000 count LCD, Maximum reading 4000
Sampling Rate	: 2 times / sec
Power Supply	: 1.5V R6P or AA Batteries (x 8)
Fuse	: F22 (0.5A/600V) x 1
CE Mark	: CATIV 600V CLASS II and EMC
Dimensions	: 120(H) x 130(W) x 70(D) mm
Weight	: 600g
Accessories	: 100-61 Test Leads (x 1 set), 945B Black Alligator Clip (x 1) 1016 Carrying Case (x 1), 1.5V RW6P Batteries (x 8) Spare Fuse F22 (0.5A/600V) x 1 (built-in)

#### OPTIONAL ACCESSORIES

- 766B Black Test Prod (with 767B Black Test Pin)
- 940R Red Alligator Clip
- 948R Red Alligator Clip

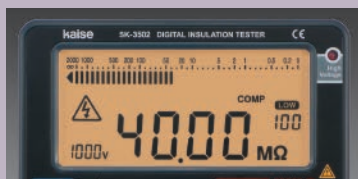
		SK-3500				SK-3502			
Insulation Resistance	Rated Test Voltage (DC)	50V	125V	250V	500V	125V	250V	500V	1000V
	Max. Effective Reading	200MΩ		2000MΩ		200MΩ		2000MΩ	
	Center Reading	5MΩ		50MΩ		5MΩ		50MΩ	
	1st effective range	0.200 to 10 MΩ		0.200 to 100 MΩ		0.200 to 10 MΩ		0.200 to 100 MΩ	
	Accuracy	±3%rdg±4dgt				±3%rdg±4dgt			
	2nd effective range	0 to 0.199 MΩ, 10.01 to 200.0 MΩ		0 to 0.199 MΩ 100.1 to 2000 MΩ		0 to 0.199 MΩ, 10.01 to 200.0 MΩ		0 to 0.199 MΩ, 100.1 to 2000 MΩ	
	Accuracy	±5%rdg±5dgt				±5%rdg±5dgt			
Low Resistance	Display Range (Auto-ranging)	20.00Ω				400.0Ω			
	Accuracy (After 0Ω Adjustment)	±3%rdg±5dgt				±3%rdg±5dgt			
	Measurement Current	200mA or more				Approx. 10mA			
	Open Circuit Voltage	6V or more				Approx. 660kΩ			
AC / DC Voltage	Range	DCV / ACV fixed (0V to 600V)				AUTO (10V to 600V)			
	Accuracy	±3%rdg±5dgt				±3%rdg±5dgt			
	Input Resistance	Approx. 660kΩ				Approx. 660kΩ			
Functions	Comparator, Data memory, Timer, Live wire warning, Safety lock, High voltage warning, Automatic discharge, Zero-ohm adjustment, Backlight, Display hold, Auto power save								

#### Advantages of SK-3500/3502

##### Wide Digital Display

##### Bargraph LCD (with backlight)

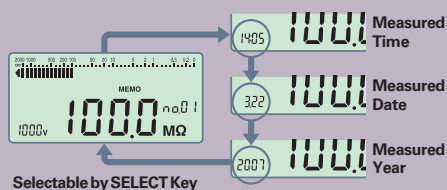
Wide bargraph scale that can confirm measurement values on sight like an analog meter. Backlight is helpful for easy reading even in dark areas.



##### Data Memory Function

Up to 100 data can be saved in internal memory together with their measured date and time. (for Insulation Resistance and Low Resistance)

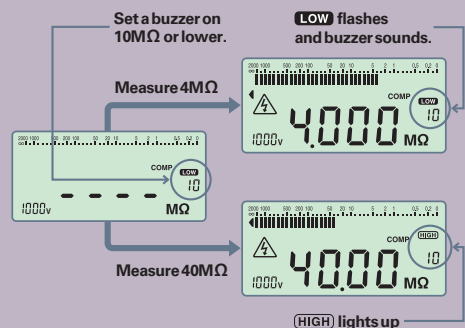
Example) Memorize 100MΩ measured under 1000V.



##### Comparator Function

Buzzer sounds and "HIGH" or "LOW" light up if measuring value exceeds or falls below the threshold. (for Insulation Resistance and Low Resistance)

Example) When setting a buzzer on 10MΩ or lower.



## Analog Insulation Testers

### Multi-Functional Insulation Testers

SK-3000 100V 200MΩ	SK-3000 250V 500MΩ	SK-3002 250V 50MΩ	SK-3002/3005 500V 100MΩ	SK-3003 500V 1000MΩ	SK-3003/3005 1000V 2000MΩ	AC V
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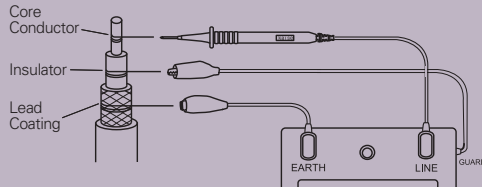
### SK-3000/SK-3002/SK-3003/SK-3005

#### SPECIFICATIONS

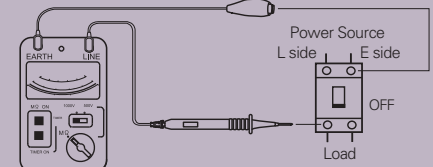
Power Supply : 1.5V R6P or AA Batteries (x 8)  
 Dimensions : 165(H) x 100(W) x 45(D) mm  
 Weight : 540g  
 Accessories : 100-34 Test Leads (x 1 set), 939 Test Pin (x 1)  
 978 Carrying Case (x 1), 1.5V R6P Batteries (x 8)



#### How to measure Volume Resistance



#### Insulation Resistance Measurements



Before measurement, make sure that the line (circuit) or object under test is not live.

		SK-3000		SK-3002		SK-3003		SK-3005	
		100V	250V	250V	500V	500V	1000V	500V	1000V
Insulation Resistance	Rated Test Voltage (DC)	100V	250V	250V	500V	500V	1000V	500V	1000V
	Max. Effective Reading	200MΩ	500MΩ	50MΩ	100MΩ	1000MΩ	2000MΩ	100MΩ	2000MΩ
	Effective range	0.1 to 200MΩ	0.5 to 500MΩ	0.05 to 50MΩ	0.1 to 100MΩ	1 to 1000MΩ	2 to 2000MΩ	0.1 to 100MΩ	1 to 2000MΩ
	Center Scale	5MΩ	10MΩ	1MΩ	2MΩ	20MΩ	50MΩ	2MΩ	40MΩ
	Terminal Voltage	Infinite Scale : ±10% of Rated Voltage    Center Scale : Over 90% of Rated Voltage							
AC Voltage	Accuracy	First effective range : ±5% of reading value Second effective range : ±10% of reading value Zero and Infinite : ±0.7% of scale length							
	Range	0 to 600V							
	Accuracy	±3% of full scale value							
	Timer	Approx. 3 minutes							
Battery Check		by Battery Scale on BATT. CHECK position							

### All-in-one Insulation Tester with Safety Functions

SK-3010 50V 10MΩ	SK-3010 125V 20MΩ	SK-3012 250V 50MΩ	SK-3012 500V 100MΩ	SK-3013 500V 1000MΩ	SK-3013 1000V 2000MΩ	SK-3016 500V 100MΩ	SK-3016 1000V 200MΩ
SK-3320 250V 50MΩ	SK-3320 500V 100MΩ	SK-3320 1000V 2000MΩ	AC V	LOW Ω	)))	Dust Proof	Water Resistant

### SK-3010/SK-3012/SK-3013/SK-3016 SK-3320



#### FEATURES

- Dust proof and water resistant case.
- 3-minutes continuous measurement. (Timer Function)
- Enhanced safety. (Live wire warning and Automatic discharge)
- Low Resistance and Continuity measurements. (SK-3016)

#### OPTIONAL ACCESSORIES





766B Black Test Prod (with 767B Test Pin)  
 942R Red Alligator Clip

#### SPECIFICATIONS

Power Supply : 1.5V R6P or AA Batteries (x 6)  
 Fuse : F23 (1A/600V) x 1  
 CE Mark : CAT III 600V and EMC  
 Dimensions : 169(H) x 148(W) x 50(D) mm  
 Weight : 570g  
 Accessories : 100-40 Test Leads (x 1 set)  
 942B Black Alligator Clip (x 1)  
 766R Red Test Prod (x 1, with 767R Test Pin)  
 1.5V R6P Batteries (x 6)  
 Spare Fuse F23 (1A/600V) x 1

		SK-3010		SK-3012		SK-3013		SK-3016		SK-3320	
		50V	125V	250V	500V	500V	1000V	500V	1000V	250V	500V
Insulation Resistance	Rated Test Voltage (DC)	50V	125V	250V	500V	500V	1000V	500V	1000V	250V	500V
	Max. Effective Reading	10MΩ	20MΩ	50MΩ	100MΩ	1000MΩ	2000MΩ	100MΩ	200MΩ	50MΩ	100MΩ
	Effective range	0.005 to 10MΩ	0.01 to 20MΩ	0.01 to 50MΩ	0.05 to 100MΩ	0.5 to 1000MΩ	1 to 2000MΩ	0.05 to 100MΩ	0.1 to 200MΩ	0.01 to 50MΩ	0.05 to 100MΩ
	Center Scale	0.2MΩ	0.5MΩ	1MΩ	2MΩ	20MΩ	50MΩ	2MΩ	5MΩ	1MΩ	2MΩ
	Allowable Voltage at no load	less than 1.3 times of Rated Voltage									
AC Voltage	Rated Measuring Current	1mA to 1.2mA									
	Shorted Current	less than 2mA									
	Accuracy	First effective range : ±5% of reading value Second effective range : ±10% of reading value The other area of scale : ±0.7% of scale length									
	Range	0 to 300V									
Low Resistance	Accuracy	±3% of full scale value									
	Range	2Ω/20Ω (OpenV. ≥5V, M.C.200mA)									
Continuity Test	Accuracy	±3% full scale length									
	Timer	Approx. 3 minutes									
Battery Check		by Battery Scale on BATT. CHECK position									
Functions		Live wire warning, High voltage warning, Automatic discharge									

## Digital Multimeters Index

				
<b>Model</b>	<b>KU-2600</b>	<b>KU-2602</b>	<b>SK-6161</b>	<b>SK-6163</b>
<b>Display Counts</b>	4000	4000	4000	4000
<b>Bargraph</b>	—	—	—	—
<b>DC Voltage</b>	400mV	400mV	400mV	400mV
	4V	4V	4V	4V
	40V	40V	40V	40V
	400V	400V	400V	400V
	600V	600V	1000V	1000V
	—	—	—	—
<b>AC Voltage</b>	400mV	400mV	4V	4V
	4V	4V	40V	40V
	40V	40V	400V	400V
	400V	400V	750V	750V
	600V	600V	—	—
	—	—	—	—
<b>DC Current</b>	40mA	400 $\mu$ A	40mA	400 $\mu$ A
	400mA	4000 $\mu$ A	400mA	4000 $\mu$ A
	10A	40mA	4A	40mA
	—	400mA	20A	400mA
	—	4A	—	4A
	—	10A	—	20A
<b>AC Current</b>	40mA	400 $\mu$ A	40mA	400 $\mu$ A
	400mA	4000 $\mu$ A	400mA	4000 $\mu$ A
	10A	40mA	4A	40mA
	—	400mA	20A	400mA
	—	4A	—	4A
	—	10A	—	20A
<b>Resistance</b>	400 $\Omega$	400 $\Omega$	400 $\Omega$	400 $\Omega$
	4k $\Omega$	4k $\Omega$	4k $\Omega$	4k $\Omega$
	40k $\Omega$	40k $\Omega$	40k $\Omega$	40k $\Omega$
	400k $\Omega$	400k $\Omega$	400k $\Omega$	400k $\Omega$
	4M $\Omega$	4M $\Omega$	4M $\Omega$	4M $\Omega$
	40M $\Omega$	40M $\Omega$	40M $\Omega$	40M $\Omega$
<b>Frequency</b>	●	●	●	●
<b>Duty Cycle</b>	●	●	●	●
<b>Continuity Test</b>	●	●	●	●
<b>Diode Test</b>	●	●	●	●
<b>Capacitance</b>	●	●	—	●
<b>Temperature</b>	—	●	—	—
<b>True RMS</b>	—	—	—	—
<b>Auto Ranging</b>	●	●	●	●
<b>Manual Ranging</b>	●	●	●	●
<b>MAX / MIN</b>	—	—	—	—
<b>Range Hold</b>	●	●	●	●
<b>Difference</b>	●	●	—	●
<b>Display Hold</b>	●	●	—	●
<b>Comparator</b>	—	—	—	—
<b>Current by Clamp Adapter</b>	●	●	●	●
<b>Dust Proof &amp; Simple Water Resistant</b>	—	—	—	—
<b>Backlight</b>	—	—	—	—
<b>Penlight</b>	—	—	—	—
<b>Auto Power Save (Off)</b>	●	●	●	●

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters






Analog Multitesters

Automotive Testers

Other Testers





Accessories

## Digital Multimeters Index

					
<b>Model</b>	<b>SK-6150</b>	<b>SK-6597</b>	<b>SK-6598</b>	<b>SK-6592</b>	<b>SK-4033</b>
<b>Display Counts</b>	4000	4000	4000	4000	4000
<b>Bargraph</b>	●	—	—	—	—
<b>DC Voltage</b>	400mV	400mV	400mV	400mV	400mV
	4V	4V	4V	4.0V	4V
	40V	40V	40V	40V	40V
	400V	400V	400V	400V	400V
	1000V	600V	600V	600V	600V
	—	—	—	—	—
<b>AC Voltage</b>	400mV	4V	4V	4.0V	400mV
	4V	40V	40V	40V	4V
	40V	400V	400V	400V	40V
	400V	600V	600V	600V	400V
	750V	—	—	—	600V
	—	—	—	—	—
<b>DC Current</b>	40mA	40mA	40mA	—	400 $\mu$ A
	400mA	400mA	400mA	—	4000 $\mu$ A
	4A	—	—	—	40mA
	20A	—	—	—	400mA
	—	—	—	—	10A
	—	—	—	—	—
<b>AC Current</b>	40mA	40mA	40mA	—	400 $\mu$ A
	400mA	400mA	400mA	—	4000 $\mu$ A
	4A	—	—	—	40mA
	20A	—	—	—	400mA
	—	—	—	—	10A
	—	—	—	—	—
<b>Resistance</b>	400 $\Omega$	400 $\Omega$	400 $\Omega$	400 $\Omega$	400 $\Omega$
	4k $\Omega$	4k $\Omega$	4k $\Omega$	4.0k $\Omega$	4k $\Omega$
	40k $\Omega$	40k $\Omega$	40k $\Omega$	40k $\Omega$	40k $\Omega$
	400k $\Omega$	400k $\Omega$	400k $\Omega$	400k $\Omega$	400k $\Omega$
	4M $\Omega$	4M $\Omega$	4M $\Omega$	4.0M $\Omega$	4M $\Omega$
	40M $\Omega$	40M $\Omega$	40M $\Omega$	40M $\Omega$	40M $\Omega$
<b>Frequency</b>	●	●	●	●	—
<b>Duty Cycle</b>	—	●	●	●	—
<b>Continuity Test</b>	●	●	●	●	—
<b>Diode Test</b>	●	●	●	●	—
<b>Capacitance</b>	—	●	●	●	—
<b>Temperature</b>	—	—	—	—	—
<b>True RMS</b>	—	—	●	—	—
<b>Auto Ranging</b>	●	●	●	●	●
<b>Manual Ranging</b>	●	—	●	—	●
<b>MAX / MIN</b>	●	●	●	●	—
<b>Range Hold</b>	●	—	●	—	●
<b>Difference</b>	●	●	●	●	—
<b>Display Hold</b>	●	●	●	●	—
<b>Comparator</b>	—	—	—	—	●
<b>Current by Clamp Adapter</b>	●	—	—	—	●
<b>Dust Proof &amp; Simple Water Resistant</b>	●	—	—	—	—
<b>Backlight</b>	—	●	—	—	—
<b>Penlight</b>	—	●	—	—	—
<b>Auto Power Save (Off)</b>	●	●	●	●	—



## Digital Multimeters Index

				
<b>Model</b>	<b>SK-4035</b>	<b>SK-6555</b>	<b>KU-1199</b>	<b>SK-6500</b>
<b>Display Counts</b>	4000	4000	4000	2000
<b>Bargraph</b>	—	—	—	—
<b>DC Voltage</b>	400mV	400mV	400mV	200mV
	4V	4.0V	4V	2V
	40V	40V	40V	20V
	400V	400V	400V	200V
	600V	600V	500V	600V
	—	—	—	—
<b>AC Voltage</b>	400mV	4.0V	400mV	2V
	4V	40V	4V	20V
	40V	400V	40V	200V
	400V	600V	400V	600V
	600V	—	500V	—
	—	—	—	—
<b>DC Current</b>	400 $\mu$ A	—	—	—
	4000 $\mu$ A	—	—	—
	40mA	—	—	—
	400mA	—	—	—
	10A	—	—	—
	—	—	—	—
<b>AC Current</b>	400 $\mu$ A	—	—	—
	4000 $\mu$ A	—	—	—
	40mA	—	—	—
	400mA	—	—	—
	10A	—	—	—
	—	—	—	—
<b>Resistance</b>	400 $\Omega$	400 $\Omega$	400 $\Omega$	200 $\Omega$
	4k $\Omega$	4.0k $\Omega$	4k $\Omega$	2k $\Omega$
	40k $\Omega$	40k $\Omega$	40k $\Omega$	20k $\Omega$
	400k $\Omega$	400k $\Omega$	400k $\Omega$	200k $\Omega$
	4M $\Omega$	4.0M $\Omega$	4M $\Omega$	2M $\Omega$
	40M $\Omega$	40M $\Omega$	40M $\Omega$	20M $\Omega$
<b>Frequency</b>	—	●	—	—
<b>Duty Cycle</b>	—	●	—	—
<b>Continuity Test</b>	—	●	●	●
<b>Diode Test</b>	—	●	●	●
<b>Capacitance</b>	—	●	—	—
<b>Temperature</b>	—	—	—	—
<b>True RMS</b>	●	—	—	—
<b>Auto Ranging</b>	●	●	●	●
<b>Manual Ranging</b>	●	●	—	—
<b>MAX / MIN</b>	—	●	—	—
<b>Range Hold</b>	●	●	—	—
<b>Difference</b>	—	●	—	—
<b>Display Hold</b>	—	●	—	●
<b>Comparator</b>	●	—	—	—
<b>Current by Clamp Adapter</b>	●	—	—	—
<b>Dust Proof &amp; Simple Water Resistant</b>	—	—	—	—
<b>Backlight</b>	—	—	—	—
<b>Penlight</b>	—	—	—	—
<b>Auto Power Save (Off)</b>	—	●	●	●

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multimeters

Automotive Testers

Other Testers

Accessories



### KU-2600/KU-2602

#### FEATURES

- Temperature Measurement. (Temperature Probe is provided) (KU-2602)
- Tilt Stand and Test Lead Holder on rear side.
- Display Hold, Range Hold functions.
- Auto Power Off, Reset functions.

#### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 2 times / sec
Range Selection	: Auto / Manual Ranging
Power Supply	: 1.5V R6P or AA Batteries (x 2)
Fuse	: F14 (0.5A/250V) x 1 F17 (10A/250V) x 1
CE Mark	: CAT II 600V, CAT III 300V compliant
Dimensions	: 155(H) x 75(W) x 29(D) mm
Weight	: 180g
Accessories	: Holster, 100-50 Test Leads (x 1 set) 818-02 Temperature Probe (x 1)(KU-2602) 1.5V R6P Batteries (x2 & spare) Spare Fuses F14 (0.5A/250V) & F17 (10A/250V) x 1 each

#### OPTIONAL ACCESSORIES

- 660 AC/DC Clamp Adapter
- 821 AC Clamp Adapter
- 817-01~817-25 Temperature probe (KU-2602)
- 731 BNC Conversion Adapter
- 732 Miniature Connector Conversion Plug (KU-2602)
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 940 Alligator Clips
- 948 Alligator Clips
- 793 Coil-Type Contact Pin
- 995 Carrying Case

CE

CE

#### KU-2600

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 $\mu$ V	$\pm 0.5\%rdg \pm 4dgt$	$\geq 100M\Omega$
	4V/40V	1mV/10mV	$\pm 0.5\%rdg \pm 4dgt$	$\approx 10M\Omega$
	40V/600V	100mV/1V	$\pm 1.0\%rdg \pm 4dgt$	
	400mV	0.1mV	$\pm 4.0\%rdg \pm 8dgt$	
AC Voltage	4V/40V	1mV/10mV	$\pm 1.2\%rdg \pm 5dgt$	$\approx 10M\Omega$
	40V	100mV	$\pm 1.2\%rdg \pm 5dgt$	
	600V	1V	$\pm 1.5\%rdg \pm 5dgt$	
	Range	Resolution	Accuracy	Voltage Drop
DC Current	40mA	10 $\mu$ A	$\pm 2.0\%rdg \pm 4dgt$	200mV
	400mA	100 $\mu$ A	$\pm 2.5\%rdg \pm 4dgt$	2.2V MAX
	10A	10mA	$\pm 2.5\%rdg \pm 4dgt$	200mV
AC Current	40mA	10 $\mu$ A	$\pm 2.5\%rdg \pm 5dgt$	200mV
	400mA	100 $\mu$ A	$\pm 3.0\%rdg \pm 5dgt$	2.2V MAX
	10A	10mA	$\pm 3.0\%rdg \pm 5dgt$	200mV
Resistance	400 $\Omega$ /4k $\Omega$	0.1 $\Omega$ /1k $\Omega$	$\pm 1.0\%rdg \pm 3dgt$	
	40k $\Omega$ /400k $\Omega$	10 $\Omega$ /100 $\Omega$	$\pm 1.0\%rdg \pm 3dgt$	
	4M $\Omega$ /40M $\Omega$	1k $\Omega$ /10k $\Omega$	$\pm 1.8\%rdg \pm 3dgt$	
	Open Circuit Voltage : Approx. 0.44V			
Frequency	9.999Hz to 9.999MHz	0.01Hz to 1.0kHz	$\pm 0.2\%rdg \pm 1dgt$	
Duty Cycle	0% to 99.9%	0.1%	$\pm 0.2\%rdg \pm 2dgt$	
Continuity Test 400 $\Omega$ (Buzzer Sound : Approx. 50 $\Omega$ or less)				
Diode Test	4V		$\pm 5.0\%rdg \pm 3dgt$	
Open Circuit Voltage : $\leq 1.5V$				
Capacitance	0.1nF to 40nF / 40nF to 40 $\mu$ F / 40 $\mu$ F to 200 $\mu$ F ( $\pm 3.0\%rdg \pm 5dgt$ )			
Functions	Difference, Range Hold, Display Hold, Auto Power Off, Reset			

#### KU-2602

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	$\pm 0.5\%rdg \pm 5dgt$	$\geq 100M\Omega$
	4V	1mV	$\pm 0.5\%rdg \pm 5dgt$	$\approx 11M\Omega$
	40V	10mV	$\pm 0.8\%rdg \pm 5dgt$	
	400V	100mV	$\pm 1.2\%rdg \pm 5dgt$	$\approx 10M\Omega$
AC Voltage	400mV	0.1mV	$\pm 1.2\%rdg \pm 5dgt$	$\approx 11M\Omega$
	4V	1mV	$\pm 0.8\%rdg \pm 5dgt$	
	40V	10mV	$\pm 0.8\%rdg \pm 5dgt$	
	400V	100mV	$\pm 1.2\%rdg \pm 5dgt$	$\approx 10M\Omega$
DC Current	400 $\mu$ A/4000 $\mu$ A	0.1 $\mu$ A/1 $\mu$ A	$\pm 1.5\%rdg \pm 5dgt$	Voltage Drop 40mV/400mV 70mV/700mV
	40mA/400mA	10 $\mu$ A/100 $\mu$ A	$\pm 2.0\%rdg \pm 5dgt$	500mV/1.4V
	4A/10A	1mA/10mA	$\pm 2.0\%rdg \pm 5dgt$	40mV/400mV 70mV/700mV
	400 $\mu$ A/4000 $\mu$ A	0.1 $\mu$ A/1 $\mu$ A	$\pm 2.0\%rdg \pm 5dgt$	500mV/1.4V
AC Current	400 $\mu$ A/4000 $\mu$ A	0.1 $\mu$ A/1 $\mu$ A	$\pm 2.0\%rdg \pm 5dgt$	
	40mA/400mA	10 $\mu$ A/100 $\mu$ A	$\pm 2.5\%rdg \pm 5dgt$	
	4A/10A	1mA/10mA	$\pm 2.5\%rdg \pm 5dgt$	
	Range	Resolution	Accuracy	Test Current
Resistance	400 $\Omega$	0.1 $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	$\leq 0.3mA$
	4k $\Omega$	1 $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	$\leq 40\mu A$
	40k $\Omega$	10 $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	$\leq 4\mu A$
	400k $\Omega$	100 $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	$\leq 0.4\mu A$
Resistance	4M $\Omega$	1k $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	$\leq 40nA$
	40M $\Omega$	10k $\Omega$	$\pm 2.0\%rdg \pm 5dgt$	
Open Circuit Voltage : Approx. 0.44V				
	Range	Resolution	Accuracy	Sensor
Temperature	0 $^{\circ}$ C to 40 $^{\circ}$ C	$\pm 3^{\circ}$ C	$\pm 0.75\%rdg \pm 3^{\circ}$ C	Built-in
	-20 $^{\circ}$ C to 200 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 1.5\%rdg \pm 3^{\circ}$ C	External
Frequency	9.999Hz to 9.999MHz	0.01Hz to 1.0kHz	$\pm 0.02\%rdg \pm 5dgt$	
Duty Cycle	0.1% to 99.9%	0.1%	$\pm 2\%rdg \pm 5dgt$	
Continuity Test 400 $\Omega$ (Buzzer Sound : Approx. 60 $\Omega$ or less)				
Diode Test	4V		$\pm 5.0\%rdg \pm 3dgt$	
Open Circuit Voltage : $\leq 1.5V$				
Capacitance	4 / 40 / 400nF / 4 / 40 / 200 $\mu$ F ( $\pm 2.0\%rdg \pm 5dgt$ )			
Functions	Difference, Range Hold, Display Hold, Auto Power Off, Reset			

#### Features of KU-2600/KU-2602

##### Standard hand-held Digital Multimeter

Easy to carry around to any measuring field.



##### Color-coded Range Switch

Helps your range selecting with color-coding switches.

Example:  
Press SELECT key (colored yellow) to select AC or DC in mA or A measuring ranges.



##### Test-Lead-Fixable Rubber Holster

No need to find the place to set the Digital Multimeter in measuring field.  
KU-2600/2602 allows quick measurement holding the unit in hand.



Easy-to-read Large LCD with 20mm high numerals



SK-6161



SK-6163



## SK-6161 / SK-6163

### FEATURES

- Easy-to-read Large LCD with 20mm high numerals.
- 300 hours continuous operation with only two 1.5V Batteries.
- 20A AC / DC Measurements.

### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 2.5 times / sec (except frequency duty cycle, capacitance measurements)
Range Selection	: Auto / Manual Ranging
Power Supply	: 1.5V R6P or AA Batteries (x 2)
Fuse	: F14 (0.5A / 250V) x 1 F16 (15A / 250V) x 1
Dimensions	: 160(H) x 75(W) x 34(D) mm,
Weight	: 180g
Accessories	: 100-57 Test Leads (x 1 set) 1020 Carrying Case 1.5V R6P Batteries (x 2) Spare Fuses F14 (0.5A / 250V) & F16 (15A / 250V) x 1 each

### Advantages of SK-6161/ 6163

Easy-to-read large LCD



Colored range switch for easy operation



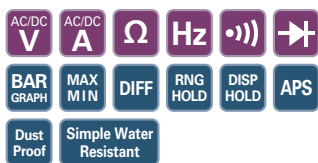
	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	±0.5%rdg±2dgt	≥100MΩ
	4V	1mV	±0.5%rdg±1dgt	≈11MΩ
	40/400/1000V	10m/100m/1V	±1%rdg±5dgt	≈10MΩ
AC Voltage	4V	1mV	±1%rdg±5dgt	≈11MΩ
	40/400/750V	10m/100m/1V	±1%rdg±5dgt	≈10MΩ
	Frequency	5Hz to 20kHz	0.01 to 10Hz	±0.2%rdg±2dgt
Duty Cycle	10 to 90%	0.1%	±2%rdg±2dgt	
	Range	Resolution	Accuracy	Voltage Drop
	400μ/4000μA*	0.1 μ/1 μA	±1%rdg±1dgt	0.11mV/μA
DC Current	40m/400mA	0.01m/0.1mA	±1%rdg±1dgt	2mV/mA
	4A	1mA	±1.5%rdg±2dgt	30mV/A
	20A	10mA	±1.5%rdg±2dgt 0~10.00A ±1.5%rdg±2dgt 10.01~20.00A ±2.5%rdg±4dgt	30mV/A
AC Current	400μ/4000μA*	0.1 μ/1 μA	±1.5%rdg±5dgt	0.11mV/μA
	40m/400mA	0.01m/0.1mA	±1.5%rdg±5dgt	2mV/mA
	4A	1mA	±2%rdg±7dgt	30mV/A
Frequency	5Hz to 1kHz	0.01 to 1Hz	±0.2%rdg±2dgt	
	Range	Resolution	Accuracy	Test Current
	400Ω	0.1Ω	±0.8%rdg±3dgt	≤0.3mA
Resistance	4kΩ	1Ω	±0.8%rdg±2dgt	≤40μA
	40kΩ	10Ω	±0.8%rdg±2dgt	≤4μA
	400kΩ	100Ω	±0.8%rdg±2dgt	≤0.4μA
Continuity Test	4MΩ	1kΩ	±2%rdg±3dgt	≤40nA
	40MΩ	10kΩ	±3%rdg±3dgt	≤40nA
	Open Circuit Voltage	: Approx. 0.44V		
Diode Test	400Ω (Buzzer Sound : Approx. 60Ω or less)			
	1V		±5.0%rdg±3dgt	
	Open Circuit Voltage : ≤1.7V			
Capacitance	50 / 500nF / 5 / 50 / 100 μF			
	(±5.0%rdg±10dgt)			
	Difference (SK-6163), Range Hold, Display Hold (SK-6163), Auto Power Save			

\* 400 μA / 4000 μA range is SK-6163 only.

### OPTIONAL ACCESSORIES

660 AC / DC Clamp Adapter	100-62 Test Lead Set
821 AC Clamp Adapter	940 Alligator Clips
731 BNC Conversion Adapter	948 Alligator Clips
100-41 Test Lead Kit	793 Coil-Type Contact Pin

4000 Count DMM with Bargraph



## SK-6150

### FEATURES

- Large LCD with Bargraph.
- Tough designed case with Dust-proof and Water-resistant structure.

### SPECIFICATIONS

Display	: (Numerical) 4000 count LCD, Maximum Reading 9999 (Bargraph) 40 segments (1 segment / 100 digits)
Sampling Rate	: (Numerical) 3 times / sec (Bargraph) 30 times / sec
Range Selection	: Auto / Manual Ranging
Power Supply	: 1.5V R6P or AA Batteries (x 2)
Fuse	: F33 (15A / 1000V) x 1, F34 (2A / 1000V) x 1
CE Mark	: CAT II 600V and EMC
Dimensions	: 180(H) x 86(W) x 35(D) mm
Weight	: 320g
Accessories	: 100-57 Test Leads (x 1 set) 1.5V R6P Batteries (x 2)

### OPTIONAL ACCESSORIES

660 AC / DC Clamp Adapter	940 Alligator Clips
821 AC Clamp Adapter	948 Alligator Clips
731 BNC Conversion Adapter	793 Coil-Type Contact Pin
100-41 Test Lead Kit	995 Carrying Case
100-62 Test Lead Set	

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 μV	±0.5%rdg±2dgt	≥100MΩ
	4V	1mV	±0.5%rdg±1dgt	≈11MΩ
	40V	10mV	±0.8%rdg±1dgt	≈10MΩ
AC Voltage	400mV	100 μV	±2.0%rdg±7dgt	≥100MΩ
	4V	1mV	±1.5%rdg±5dgt	≈11MΩ
	40V	10mV	±1.5%rdg±5dgt	≈10MΩ
DC Current	Range	Resolution	Accuracy	Voltage Drop
	40mA / 400mA	100 μA	±1.2%rdg±2dgt	40mV(40mA) 400mV(400mA)
	4A / 20A	10mA	0 to 10.00A ±2.0%rdg±2dgt 10.01 to 20A ±2.5%rdg±4dgt	130mV(4A) 350mV(10A)
AC Current	40mA / 400mA	100 μA	±2.5%rdg±5dgt	40mV(40mA) 400mV(400mA)
	4A / 20A	10mA	0 to 10.00A ±2.5%rdg±5dgt 10.01 to 20A ±3.0%rdg±10dgt	130mV(4A) 350mV(10A)
Resistance	Range	Resolution	Accuracy	Test Current
	400Ω	100mΩ	±1.0%rdg±2dgt	≤0.5mA
	4kΩ	1Ω	±0.7%rdg±2dgt	≤0.2mA
Frequency	40kΩ	10Ω	±0.7%rdg±2dgt	≤40μA
	400kΩ	100Ω	±1.0%rdg±2dgt	≤4μA
	4MΩ	1kΩ	±2.0%rdg±2dgt	≤0.4μA
Continuity Test	40MΩ	10kΩ	±2.0%rdg±2dgt	≤40nA
	Open Circuit Voltage : ≤0.4V			
	99.99Hz to 100Hz	0.01Hz	±0.3%rdg±3dgt	
Diode Test	999.9kHz	100Hz	(999.9Hz / 9.999kHz Range)	
	400Ω (Buzzer Sound : Approx. 40Ω or less)			
	2V	1mV		
Functions	Open Circuit Voltage : ≤3.3V			
	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save			





Upgraded Probe Tester with AC/DC-A and True RMS (SK-6598) !



## SK-6597 / SK-6598 TRUE RMS

### FEATURES

- Current measurement up to AC / DC 400mA.
- Penlight and backlight LCD (SK-6597).
- True RMS AC/DC conversion (SK-6598).
- Up to 30kHz Frequency in AC Voltage (SK-6598).

### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 3 times / sec.
Range Selection	: (SK-6597) Auto Ranging (SK-6598) Auto / Manual Ranging
Power Supply	: 1.5V LR44 Battery (x 2)
Fuse	: F22 (0.5A / 600V) x 1
CE Mark	: CAT III 600V and EMC
Dimensions	: 209(H) x 38(W) x 32(D) mm
Weight	: Approx. 110g (include battery)
Accessories	: 100-68 Test Lead (Black) (x 1) 1.5V LR44 Batteries (x 2) 780 Red Insulation Cap (x 1) 781 Test Lead Insulation Cap (Black) (x 1)

- Easy-to-read large LCD.
- Clear buzzer sound.
- Easy-to-use large Test Lead.
- Replaceable Test Pin and Test Lead.

### OPTIONAL ACCESSORIES

940 Alligator Clips	793 Coil-Type Contact Pin
948 Alligator Clips	1026 Carrying Case
792R Straight Test Pin (Red)	

### Advantages of SK-6597 / 6598

#### Penlight and backlight LCD (SK-6597)



#### True RMS AC/DC conversion (SK-6598)



DC Voltage	Range	Resolution	Accuracy				Input Impedance
	400mV	0.1mV	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$				$\geq 100 \text{M}\Omega$
	4V	1mV					$\approx 11 \text{M}\Omega$
	40V	10mV	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$				$\approx 10 \text{M}\Omega$
	400V	100mV					
600V	1V						
AC Voltage			50Hz to 500Hz	50Hz to 1kHz(SK-6598)	1kHz to 5kHz(SK-6598)	5kHz to 30kHz(SK-6598)	
	4V	1mV	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	$\pm 1.5\% \text{rdg} \pm 7 \text{dgt}$	$\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$ $\pm 3.5\% \text{rdg} \pm 10 \text{dgt}$	$\pm 9.0\% \text{rdg} \pm 10 \text{dgt}$ $\pm 7.0\% \text{rdg} \pm 10 \text{dgt}$	$\approx 11 \text{M}\Omega$
	40V	10mV					
	400V	100mV					
	600V	1V	—				$\approx 10 \text{M}\Omega$
Frequency	1Hz to 100kHz	0.001 to 100Hz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$				
Duty Cycle	0.0% to 99.9%	0.1%	$\pm 0.5\% \text{rdg} \pm 5 \text{dgt}$				
	Range	Resolution	Accuracy				Burden Voltage
DC Current	40mA	10 $\mu\text{A}$	$\pm 1.0\% \text{rdg} \pm 2 \text{dgt}$				$< 0.1 \text{V}$
	400mA	100 $\mu\text{A}$					$< 0.6 \text{V}$
AC Current 40Hz to 500Hz	40mA	10 $\mu\text{A}$	$\pm 1.5\% \text{rdg} \pm 7 \text{dgt}$				$< 0.1 \text{V}$
	400mA	100 $\mu\text{A}$					$< 0.6 \text{V}$
Frequency	10Hz to 100kHz	0.01 to 100Hz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$				
	Range	Resolution	Accuracy				Test Current
Resistance	400 $\Omega$	0.1 $\Omega$	$\pm 1.5\% \text{rdg} \pm 4 \text{dgt}$				$\leq 0.2 \text{mA}$
	4k $\Omega$	1 $\Omega$					$\leq 50 \mu\text{A}$
	40k $\Omega$	10 $\Omega$	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$				$\leq 5 \mu\text{A}$
	400k $\Omega$	100 $\Omega$					$\leq 0.5 \mu\text{A}$
	4M $\Omega$	1k $\Omega$	$\pm 5.0\% \text{rdg} \pm 3 \text{dgt}$ $\pm 7.0\% \text{rdg} \pm 3 \text{dgt}$				$\leq 50 \text{nA}$
	40M $\Omega$	10k $\Omega$					
Open Circuit Voltage : $\approx 0.44 \text{V}$							
Continuity Test	400 $\Omega$ (Buzzer Sound : Approx. 50 $\Omega$ or less)						
Diode Test	1V	$\pm 5.0\% \text{rdg} \pm 3 \text{dgt}$				$\leq 0.7 \text{mA}$	
	Open Circuit Voltage : $\leq 1.7 \text{V}$						
Capacitance	50 / 500nF / 5 / 50 / 100 $\mu\text{F}$	$\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$					
Functions	MAX / MIN, Range Hold (SK-6598), Display Hold, Difference, Auto Power Off, Penlight and Backlight (SK-6597)						

Multi-Functional and Versatile Probe Tester



## SK-6592

### FEATURES

- Smart Design for Easy of Use.
- Fully line-upped function for useful measurements.
- MAX / MIN, and Difference Measurements are available.

### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 3 times / sec.
Range Selection	: Auto Ranging
Power Supply	: 3V CR2032 Battery (x 1)
CE Mark	: CAT III 600V and EMC
Dimensions	: 179(H) x 28(W) x 20(D) mm
Weight	: 60g
Accessories	: 100-52 Test Leads (x 1), 1006 Carrying Case (x 1) 3V CR2032 Battery (x 1)

### OPTIONAL ACCESSORIES

940 Alligator Clips	792R Red Straight Test Pin
948 Alligator Clips	793 Coil-Type Contact Pin

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 $\mu$ V	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	$\geq 100 \text{M}\Omega$
	4.0V	1mV		$\approx 11 \text{M}\Omega$
	40V	10mV	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$	$\approx 10 \text{M}\Omega$
	400V/600V	100mV/1V		
AC Voltage	4.0V	1mV	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	$\approx 11 \text{M}\Omega$
	40V/400V	10mV/100mV		$\approx 10 \text{M}\Omega$
	600V	1V		
Frequency	1Hz to 100kHz	0.001 to 100Hz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	
Duty Cycle	0 to 99.9%	0.1%	$\pm 0.5\% \text{rdg} \pm 5 \text{dgt}$	
	Range	Resolution	Accuracy	Test Current
Resistance	400 $\Omega$	0.1 $\Omega$	$\pm 1.5\% \text{rdg} \pm 4 \text{dgt}$	$\leq 0.2 \text{mA}$
	4.0k $\Omega$	1 $\Omega$		$\leq 50 \mu\text{A}$
	40k $\Omega$	10 $\Omega$	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$	$\leq 5 \mu\text{A}$
	400k $\Omega$	100 $\Omega$		$\leq 0.5 \mu\text{A}$
	4.0M $\Omega$	1k $\Omega$	$\pm 5.0\% \text{rdg} \pm 3 \text{dgt}$	$\leq 50 \text{nA}$
	40M $\Omega$	10k $\Omega$		
Open Circuit Voltage : $\approx 0.44 \text{V}$				
Continuity Test	400 $\Omega$ (Buzzer Sound : Approx. 60 $\Omega$ or less)			
Diode Test	1V		$\pm 5.0\% \text{rdg} \pm 3 \text{dgt}$	$\leq 0.7 \text{mA}$
Open Circuit Voltage : $\leq 1.7 \text{V}$				
Capacitance	50 / 500nF / 5 / 50 / 100 $\mu\text{F}$ ( $\pm 5.0\% \text{rdg} \pm 10 \text{dgt}$ )			
Functions	MAX / MIN, Difference, Display Hold, Auto Power Off			



## Digital Multimeters (Bench-Top DMM)

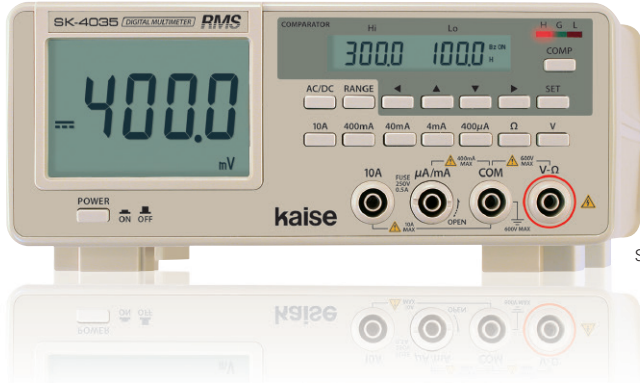
### Bench-Type DMM with Output Terminals



SK-4033/SK-4035 **TRUE RMS**



Output Terminals



SK-4035

	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	400mV	0.1mV	±0.3%rdg±2dgt	>100MΩ	
	4V	1mV		≈11MΩ	
	40/400/600V	10mV/100mV/1V		≈10MΩ	
AC Voltage	400mV	0.1mV	±1.0%rdg±5dgt(50Hz～500Hz)	>100MΩ	
	4V	1mV		≈11MΩ	
	40/400/600V	10mV/100mV/1V		≈10MΩ	
	Range	Resolution	Accuracy	Voltage Drop	
DC Current	400μA/4000μA	0.1μA/1μA	±0.75%rdg±2dgt	<0.05V / <0.25V	
	40mA	10μA		<0.1V	
	400mA	100μA		<0.6V	
	10A	10mA		<0.5V	
AC Current	400μA/4000μA	0.1μA/1μA	±1.5%rdg±6dgt(50Hz～500Hz)	<0.05V / <0.25V	
	40mA	10μA		<0.1V	
	400mA	100μA		<0.6V	
	10A	10mA		<0.5V	
	Range	Resolution	Accuracy	Open Circuit Voltage	Test Current
Resistance	400Ω	0.1Ω	±0.3%rdg±3dgt	2.4V	≤1.1mA
	4kΩ	1Ω	±0.3%rdg±2dgt	1.2V	≤110μA
	40kΩ	10Ω			≤12.0μA
	400kΩ	100Ω			≤12μA
	4MΩ	1kΩ	±1%rdg±2dgt	≤0.12μA	
	40MΩ	10kΩ	±3%rdg±4dgt	≤0.12μA	
Functions	Comparator, Range Hold				

#### FEATURES

- Output terminals to connect and control the external inspection equipments.
- SK-4035 assures the accurate measurement by True RMS.
- Comparator function useful for the quality check in the production line.
- Easy-to-use simple layout keys Easy-to-read large display.

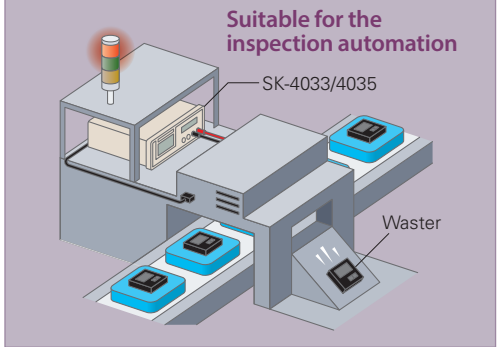
#### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 10 times / sec
Range Selection	: Auto / Manual Ranging
Power Supply	: AC adapter
Fuse	: F29 (3A/600V) x 1, F30 (10A/600V) x 1 F31 (0.5A/250V) x 2
Dimensions	: 95(H) x 200(W) x 260(D) mm,
Weight	: 1,140g
Accessories	: 100-57 Test Leads (x 1 set), AC Adapter Spare Fuse F31 (0.5A / 250V) x 1

#### OPTIONAL ACCESSORIES

660 AC/DC Clamp Adapter	100-62 Test Lead Set
821 AC Clamp Adapter	940 Alligator Clip
731 BNC Conversion Adapter	948 Alligator Clip
100-41 Test Lead Kit	793 Coil-Type Contact Pin

#### Output Terminals



## Digital Multimeters (All-in-one DMM)

### High-Precision DMM



SK-6555

#### FEATURES

- Multi-functional Card Type DMM comparable to Large Multi meter.
- Very Useful for Any Measurement Conditions.

#### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 3 times / sec
Range Selection	: Auto / Manual Ranging
Power Supply	: 3V CR2032 Battery (x 1)
CE Mark	: CAT III 300V and EMC
Dimensions	: 118(H) x 78(W) x 16(D) mm
Weight	: 110g
Accessories	: 3V CR2032 Battery (x 1)

#### OPTIONAL ACCESSORY

940 Alligator Clips	793 Coil-Type Contact Pin
948 Alligator Clips	



	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100μV		≥100MΩ
	4.0V	1mV	±0.5%rdg±3dgt	≈11MΩ
	40V	10mV		≈10MΩ
AC Voltage	400V/600V	100mV/1V	±1.0%rdg±3dgt	≈11MΩ
	4.0V	1mV	±1.5%rdg±5dgt	≈11MΩ
	40V/400V	10mV/100mV		≈10MΩ
Frequency	1Hz to 100kHz	0.001 to 100Hz	±0.2%rdg±2dgt	
Duty Cycle	0 to 99.9%	0.1%	±0.5%rdg±5dgt	
Resistance	Range	Resolution	Accuracy	Test Current
	400Ω	0.1Ω	±1.5%rdg±4dgt	≤0.2mA
	4.0kΩ	1Ω		≤50μA
	40kΩ	10Ω	±1.0%rdg±3dgt	≤5μA
	400kΩ	100Ω		≤0.5μA
	4.0MΩ	1kΩ	±3.0%rdg±3dgt	
Continuity Test	40MΩ	10kΩ	±70%rdg±3dgt	≤50nA
	Open Circuit Voltage : ≈0.44V			
Diode Test	1V		±5.0%rdg±3dgt	≤0.7mA
Capacitance	Open Circuit Voltage : ≤1.7V 50 / 500nF / 5 / 50 / 100μF (±5.0%rdg±10dgt)			
Functions	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save			

## Auto Measurement for DC / AC Voltage & Resistance



### NEW KU-1199



#### FEATURES

- Auto-SCAN Measurement. No need for selecting DC/AC Voltages and Resistance ranges.
- Only 11mm thick and 72g in Weight.
- Easy-to-read large LCD.
- Equipped with carrying case.
- Gold-plated Test Lead Pins.

#### SPECIFICATIONS

Display	: 4000 count LCD
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Power Supply	: 1.5V LR44 Batteries (x 2)
CE Mark	: CAT II 500V and EMC
Dimensions	: 112(H) x 56(W) x 11(D) mm
Weight	: Approx. 72g
Accessories	: 1.5V LR44 Batteries (Installed) (x 2) 1005 Carrying Case

#### OPTIONAL ACCESSORY

- 940 Alligator Clips
- 948 Alligator Clips
- 793 Coil-Type Contact Pin

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 $\mu$ V	$\pm 0.5\%rdg \pm 3dgt$	$\approx 5M\Omega$
	4V	1mV		
	40V	10mV		
	400V	100mV	$\pm 0.8\%rdg \pm 3dgt$	
	500V	1V		
AC Voltage	400mV	100 $\mu$ V	$\pm 1.0\%rdg \pm 8dgt$ (100mV $\sim$ )	$\approx 5M\Omega$
	4V	1mV	$\pm 0.8\%rdg \pm 3dgt$	
	40V	10mV		
	400V	100mV		
	500V	1V	$\pm 1.2\%rdg \pm 3dgt$	
	Range	Resolution	Accuracy	
Resistance	400 $\Omega$	0.1 $\Omega$	$\pm 1.0\%rdg \pm 5dgt$	
	4k $\Omega$	1 $\Omega$	$\pm 1.0\%rdg \pm 3dgt$	
	40k $\Omega$	10 $\Omega$		
	400k $\Omega$	100 $\Omega$		
	4M $\Omega$	1k $\Omega$	$\pm 2.0\%rdg \pm 3dgt$	
	40M $\Omega$	10k $\Omega$		
	Open Circuit Voltage : $\leq 0.25V$			
Continuity Test	400 $\Omega$ (Buzzer Sound : 12 $\Omega$ to 70 $\Omega$ )			
Diode Test	2V		$\pm 5.0\%rdg \pm 3dgt$	1 $\pm 0.6mA$
Functions	Open Circuit Voltage : $\leq 2.9V$			
	Auto Power Off			

### Auto-SCAN Measurement

1. Turn on the instrument with Rotary Switch. "SCAN" is displayed.
2. Connect Black Test Prod to the — (earth) side of the circuit to be measured and Red Test Prod to the + (positive) side.
3. The instrument automatically detects the items to be measured (DCV, ACV or  $\Omega$ ) and start the measurement. Read the test result on LCD.

#### DC Voltage

Example : Battery



#### AC Voltage

Example : Wall outlet



#### Resistance

Example : 5 $\Omega$  resistor



## Simple & Easy



### SK-6500

#### FEATURES

- Compact & Light Weight.
- Wide Measurement Ranges.
- Gold-plated Test Lead Pins.
- Large Rotary Switch.
- Useful Functions.

#### OPTIONAL ACCESSORY

- 940 Alligator Clips
- 948 Alligator Clips
- 793 Coil-Type Contact Pin



#### Advantages of SK-6500

##### Ultrathin Card-type DMM

Obviously slim and light weight. Only 9mm thick and 60g weight.



##### Notebook type Carrying Case

Pocketable tester for easy to carry around.






#### SPECIFICATIONS

Display	: 2000 count LCD
Sampling Rate	: 3 times / sec
Range Selection	: Auto Ranging
Power Supply	: 3V CR2032 Battery (x 1)
CE Mark	: CAT II 600V, CAT III 300V and EMC
Dimensions	: 109(H) x 55(W) x 9(D) mm
Weight	: Approx. 60g
Accessories	: 3V CR2032 Battery (x 1) Notebook type Carrying Case

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	200mV	100 $\mu$ V	$\pm 1.3\%rdg \pm 5dgt$	$\geq 100M\Omega$
	2V	1mV		$\approx 12M\Omega$
	20V	10mV		$\approx 10M\Omega$
	200V	100mV		
	600V	1V		
AC Voltage	2V	1mV	$\pm 2.0\%rdg \pm 8dgt$	$\approx 12M\Omega$
	20V	10mV		$\approx 10M\Omega$
	200V	100mV		
	600V	1V		
	Range	Resolution	Accuracy	Test Current
Resistance	200 $\Omega$	0.1 $\Omega$	$\pm 2.0\%rdg \pm 4dgt$	$\leq 1mA$
	2k $\Omega$	1 $\Omega$		$\leq 0.3mA$
	20k $\Omega$	10 $\Omega$		$\leq 40\mu A$
	200k $\Omega$	100 $\Omega$		$\leq 4\mu A$
	2M $\Omega$	1k $\Omega$		$\leq 0.4\mu A$
	20M $\Omega$	10k $\Omega$	$\pm 5.0\%rdg \pm 4dgt$	$\leq 0.04\mu A$
	Open Circuit Voltage : $\leq 0.45V$			
Continuity Test	200 $\Omega$ (Buzzer Sound : Approx. 50 $\Omega$ or less)			
Diode Test	2V	$\pm 5.0\%rdg \pm 4dgt$		$\leq 0.7mA$
Functions	Open Circuit Voltage : $\leq 1.7V$			
	Display Hold, Auto Power Off			

## Analog Multitesters Index

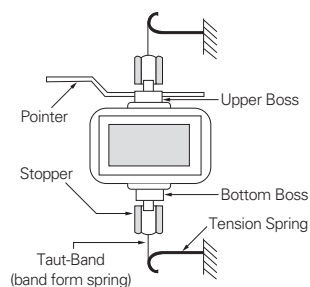
			
<b>Model</b>	<b>SK-355</b>	<b>KF-32</b>	<b>KF-20</b>
<b>DC Voltage</b>	(Internal resistance : 20kΩ / V) 0.3V 3V 12V 30V 120V 300V 1200V	(Internal resistance : 20kΩ / V) 0.3V 3V 12V 30V 120V 300V 1200V	(Internal resistance : 20kΩ / V) 0.3V 3V 12V 30V 120V 300V 1200V
<b>AC Voltage</b>	(Internal resistance : 10kΩ/V) 12V 60V 300V 1200V —	(Internal resistance : 10kΩ/V) 12V 30V 120V 300V 1200V	(Internal resistance : 10kΩ/V) 12V 30V 120V 300V 1200V
<b>DC Current</b>	60 μA 3mA 30mA 600mA 12A	60 μA 3mA 30mA 600mA 12A *1	60 μA 3mA 30mA 300mA —
<b>AC Current</b>	12A	—	—
<b>Resistance</b>	2kΩ 200kΩ 2MΩ 20MΩ	5kΩ 500kΩ 5MΩ —	5kΩ 500kΩ 5MΩ —
<b>Decibels</b>	●	—	—
<b>Continuity Test</b>	●	●	—
<b>Battery Test</b>	—	—	●
<b>Overload Protection</b>	●	●	●

\*1: Continuous measurement in 12A DC range is restricted up to 1 minute. More than 1 minute interval is necessary for the next measurement.

**Note for Temperature scale :** Optional thermister temperature probe 810-02 has been discontinued, and the temperature scale is not available for use.

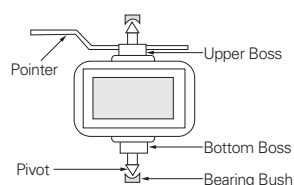
Shock Resistant Taut-band Meter is used for SK-355.

### Taut-band Meter



Taut-Band method, suitable for highly sensitive meter, has strong shock resistant and frictionless structure that can keep the meter accuracy always stable. In this method, moving coil is supported by upper and bottom taut-bands applying high tension from both side. To maintain drop-proof structure, taut-bands are protected by two stoppers from strong mechanical shock.

### Pivot Meter



Pivot method is popular and simple meter structure. As shown in the illustration, pointed pivot is simply supported by bearing bush. However, it is weak against mechanical shock. Pointed pivot abrades away by the shock or vibration during use, and causes inaccurate meter indication.

## ❖ Analog Multitesters (Drop-Proof Tester)

### Drop-proof Meter of Taut-Band AC / DC 12A Ranges



## SK-355

### SPECIFICATIONS

Power Supply : 1.5V R6P or AA Battery (x 1)  
 9V 6F22 or NEDA 1604 Battery (x 1)  
 Fuse : F15 (0.75A/250V) x 1  
 Dimensions : 140(H) x 92(W) x 30(D) mm  
 Weight : 280g  
 Accessories : 100-57 Test Leads (x 1 set)  
 1.5V R6P Battery (x 1)  
 9V 6F22 Battery (x 1)  
 Spare Fuse F15 (0.75A/250V) x 1

### OPTIONAL ACCESSORIES

100-41 Test Lead Kit 948 Alligator Clips  
 100-62 Test Lead Set 793 Coil-Type Contact Pin  
 940 Alligator Clips

	Range	Internal Resistance	Tolerance
DC Voltage	0.3 / 3 / 12 / 30 / 120 / 300 / 1200V	20kΩ/V	±3% f.s.
AC Voltage	12 / 60 / 300 / 1200V	10kΩ/V	±4% f.s.
DC Current	60μ / 3m / 30m / 600m / 12A		±3% f.s.
AC Current	12A ( for 1 minute)		±4% f.s.
Resistance	2k / 200k / 2M / 20MΩ		±3% f.s. length
Decibels	-10 to +23 / 37 / 51 / 63dB		
Continuity Tests	Buzzer sounds less than approx. 100Ω		

## ❖ Analog Multitesters

### DC 12A measurement



## KF-32

### FEATURES

- DC 12A measurement.

### SPECIFICATIONS

Power Supply : 1.5V R6P or AA Battery (x 1)  
 Fuse : F15 (0.75A/250V) x 1  
 Dimensions : 136(H) x 90(W) x 30(D) mm  
 Weight : 215g  
 Accessories : 100-64 Test Leads (x 1 set)  
 1020 Carrying Case, 1.5V R6P Battery (x 1)  
 Spare Fuse F15 (0.75A/250V) x 1 (built-in)

	Range	Internal Resistance	Tolerance
DC Voltage	0.3 / 3 / 12 / 30 / 120 / 300 / 1200V	20kΩ/V	±3% f.s.
AC Voltage	12 / 30 / 120 / 300 / 1200V	10kΩ/V	±4% f.s.
DC Current	60μ / 3m / 30m / 600m / 12A		±3% f.s.
Resistance	5k / 500k / 5MΩ (×1 / ×100 / ×1k)		±3% f.s. length
Continuity Tests	Buzzer sounds less than approx. 30Ω		

\*Continuous measurement in 12A DC range is restricted up to 1 minute.  
 More than 1 minute interval is necessary for the next measurement.

### OPTIONAL ACCESSORIES

100-41 Test Lead Kit 948 Alligator Clips  
 100-62 Test Lead Set 793 Coil-Type Contact Pin  
 940 Alligator Clips



### Advantages of KF-32

#### DC12A Ranges

Big current can be measured in DC 12A range.

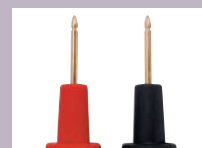
#### Scale plate with mirror

The mirror to help the correct reading avoiding the reading error.

#### Easy-to-read large character



#### Test Leads with gold plated pins



### Tough-designed Holster with Test Lead Holder



## KF-20

### SPECIFICATIONS

Power Supply : 1.5V R6P or AA Battery (x 1)  
 Fuse : F12 (0.3A/250V) x 1  
 Dimensions : 136(H) x 90(W) x 30(D) mm  
 Weight : 215g  
 Accessories : Holster  
 100-51 Test Leads (x 1 set)  
 1.5V R6P Battery (built-in & spare) x 1 each  
 Spare Fuse F12 (0.3A/250V) x 1

### OPTIONAL ACCESSORIES



100-41 Test Lead Kit 948 Alligator Clips  
 100-62 Test Lead Set 793 Coil-Type Contact Pin  
 940 Alligator Clips

	Range	Internal Resistance	Tolerance
DC Voltage	0.3 / 3 / 12 / 30 / 120 / 300 / 1200V	20kΩ/V	±3% f.s.
AC Voltage	12 / 30 / 120 / 300 / 1200V	10kΩ/V	±4% f.s.
DC Current	60μ / 3m / 30m / 300mA		±3% f.s.
Resistance	5k / 500k / 5MΩ		±3% f.s. length
Battery Test	1.5V (R20P / R14P / R6P) 1.5V 250mA (Hi Range) 1.5V 50mA (Low Range)		





## Automotive Testers Index (Digital Multimeters)

		
<b>Model</b>	<b>KT-2021</b>	<b>SK-6166</b>
<b>Display Counts</b>	6000	2000
<b>Bargraph</b>	●	—
<b>DC Voltage</b>	60mV	200mV
	600mV	2V
	6V	20V
	60V	200V
	600V	300V
	1000V	—
<b>AC Voltage</b>	60mV	2V
	600mV	20V
	6V	200V
	60V	300V
	600V	—
	1000V	—
<b>DC Current</b>	600 $\mu$ A	20mA
	6000 $\mu$ A	20A
	60mA	—
	600mA	—
	6A	—
	10A	—
<b>AC Current</b>	600 $\mu$ A	20mA
	6000 $\mu$ A	20A
	60mA	—
	600mA	—
	6A	—
	10A	—
<b>Resistance</b>	600 $\Omega$	200 $\Omega$
	6k $\Omega$	2k $\Omega$
	60k $\Omega$	20k $\Omega$
	600k $\Omega$	200k $\Omega$
	6M $\Omega$	2M $\Omega$
	60M $\Omega$	20M $\Omega$
<b>Frequency</b>	●	—
<b>Duty Cycle</b>	●	—
<b>Pulse Width</b>	●	—
<b>Continuity Test</b>	●	●
<b>Diode Test</b>	●	●
<b>Capacitance</b>	●	—
<b>Temperature</b>	●	—
<b>Revolutions Per Minute</b>	●	●
<b>Dwell Angle</b>	●	—
<b>Auto Ranging</b>	●	●
<b>Manual Ranging</b>	●	●
<b>Range Hold</b>	●	●
<b>Display Hold</b>	●	●
<b>Current by Clamp Adapter</b>	●	●
<b>Error input warning</b>	●	—
<b>Backlight</b>	●	—
<b>Auto Power Save (Off)</b>	●	●

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multimeters

Automotive Testers

Other Testers

Accessories

## Battery Checker

Quick and Accurate Car Battery & System Test with Single Hand-Held Equipment

12V  
Battery Test

12V & 24V Start Performance,  
Charging System Test

**NEW SK-8535**



### FEATURES

- For the automotive batteries with EN/DIN, SAE/BCI, and JIS standards.
- Applicable to the vehicles with Charge Controller or Idle Reduction systems.
- Auxiliary battery test for TOYOTA-Hybrids.
- Attention (Caution) result added. **Improved**
- Double Differential Pulse Test Method for more accurate testing.
- Unused Battery Test Mode. **New Function**
- Carrying Case for Protection. **New Accessory**
- On-Site Printing with Built-in Printer.
- Easy Database Upgrade through KAISE Website.

### SPECIFICATIONS

Display	: LCD (dot matrix display : 128×64 dots)
Language (display & print)	: Japanese, English, Chinese (Default setting : Japanese)
Printer	: Built-in Printer
Power Supply	: from Test Battery or USB connection
Testable Battery	: 12V Battery ※24V battery : engine startability test and charging system test are available.
Battery Standard	: JIS, EN / DIN, SAE / BCI ※CCA input or Industrial battery selectable
Measurement Range	: 100 to 1400CCA, Industrial : 1.0mΩ to 50.0mΩ
CE Mark	: EN61326-1
Dimensions	: 248(H) x 96(W) x 50(D) mm
Weight	: Approx. 550g
Accessories	: 937 USB Cable, Printer Paper (x 2, for testing sample, 1 roll is attached in the unit), 1035 Carrying Case

### OPTIONAL ACCESSORIES

851 Printer Paper

#### Printer Paper ※Option (10 rolls per set)

Please Purchase this printer paper for replacement.

Model No. : 851  
Width : Approx. 57mm  
Length : Approx. 5.8m



### Advantages of SK-8535

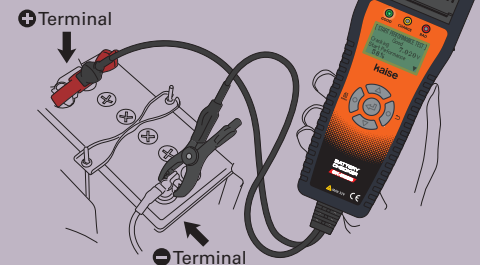
For the automotive batteries with EN/DIN SAE/BCI, and JIS standards

#### What tests available?

- ① Battery Test
  - Battery Charging Level (SOC)
    - ※SOC : State of Charge
  - Battery Condition (SOH)
    - ※SOH : State of Health
- ② Battery System Test
  - Engine Start Performance (Starting ability of the battery)
  - Charging System (Generating condition of alternator)

#### How to Test

- ① Connect battery clips to +/− terminals.
- ② Set the testing condition in SK-8535.
- ③ Start a Battery Test.
- ④ Start a Battery System Test.



Applicable to the vehicles with Charge Controller or Idle Reduction systems

Accurate testing with the specific test program and standard numbers which are designed for their testing purpose.

Industrial Battery Testing

Auxiliary battery test for TOYOTA-Hybrids

Applicable to auxiliary batteries like models S34B20 or S46B24 that are used on TOYOTA-Hybrid vehicles such as Prius, or Prius C.

Easy Database Upgrade through KAISE Website

※PC and internet connection are required.

Attention (Caution) result added **Improved**

Easy-to-see testing results by LCD display and LED lamp. Newly added "Attention (caution)" result is useful to let the customer know the necessity of battery replacement to prevent unexpected battery-down.

Unused Battery Test Mode **New Function**

Special mode for testing unused (new) batteries which are stocked in car dealers or garages. This is effective to keep them in good condition preventing unexpected battery aging during storage.

Carrying Case for Protection **New Accessory**

Enhanced portability and dust protection for the instrument. New Accessory.

Double Differential Pulse Test Method for more accurate testing

Test Result Saving & PC Connection

Up to 99 data can be saved to the internal memory. Onforwarding to PC in text data is possible.

High-Intensity Polycarbonate Body

Display & Print Language Selectable

English / Chinese / Japanese are available.

Built-in Printer

Quick-and-easy printing of the test results from built-in printer.



#### Printing sample

##### Battery Test Report

Store Name	Field to fill in the store name
Person in Charge	
Date and Time	2013/5/15 15:00
BATTERY TEST	
(Aging Test Mode)	Testing date & time
Test Result : Good	Testing mode
Battery Type : JIS	Battery judgement result
Battery Size : Q-85	
Rated CCA : 530CCA	
Measured CCA : 615CCA	Testing battery conditions
Battery Voltage : 12.780V	
Battery Temperature : 24°C	
Testing Mode	
Charge Controller/Idle Reduction	
SOC (State of Charge) : 100%	Battery charging level(SOC)
SOH (State of Health) : 100%	Battery conditions(SOH)
START PERFORMANCE TEST	
Test Result : Good	Result of engine startability test
Cranking : 8.619V	
Start Performance : 100%	Engine start performance level
CHARGING SYSTEM TEST	
Test Result : Good	Result of charging system test
Charging Voltage : 14.523V	
Ripple Voltage : 0.110V	Battery condition when charging
Periodical test is recommended.	Comment for testing results

## Handy mΩ Tester

Low resistance measurement for the motors. Ideal for the maintenance of Hybrid and Electric vehicles.



**NEW SK-3800**

### FEATURES

- Automotive mΩ Tester focusing on the testing of Hybrid and Electric vehicles.
- Easy-to-use handheld unit useful for automotive mechanics.
- 4-terminal method for accurate measurement

### SPECIFICATIONS

Display : 4199 count LCD, Maximum reading 4199  
 Sampling Rate : 2 times / sec  
 Power Supply : 1.5V R6P or AA Batteries (x 8)  
 Fuse : F22 (0.5A / 600V) x 1  
 CE Mark : EN61326-1  
 Dimensions : 140(H) x 130(W) x 70(D) mm  
 Weight : 600g  
 Accessories : Holster, 100-71 Test Leads (x 1 set),  
 1035 Carrying Case, 1.5V R6P Batteries (x 8)

	Range	Accuracy	Resolution	Test Current	Maximum Applied Power	Open Circuit Voltage
LOW Ω / Ω	40mΩ	±0.3%rdg±3dgt	10 μΩ	200mA	1.7mW	<5V
	400mΩ		100 μΩ		17mW	
	4Ω		1mΩ		17 μW	
	40Ω		10mΩ		170 μW	
	400Ω	±0.3%rdg±2dgt	100mΩ	1mA	420 μW	
	4kΩ		1Ω	20 μA	1.7 μW	
	40kΩ		10Ω	10 μA	4.2 μW	

### Advantages of SK-3800

#### Color-coded input terminals and test plugs

Easy plug-in to the input terminals by colors. Also helpful in preventing the wrong insertion.



#### Accurate testing with 4-terminal measurement

Effective for eliminating the impedance contribution of the wiring and contact resistances to ensure the accurate measurement.

#### Rubber holster for shock protection

Covered with rubber holster for slip-proof and to prevent scratching on the vehicle body.

#### Comparator Function

High/Low judgement by LCD display and buzzer comparing with the preset reference value.

#### Clip-on test lead tips

Hands-free measurement without holding the test leads.

#### Large backlit LCD



### Car Measurement with SK-3800

#### Low resistance measurement of the hybrid vehicle motor

Low resistance measurement is required for hybrid vehicle motor and generator if the DTC code "P0A78 (Drive Motor "A" Inverter Performance) is detected.

In this testing, the resistance to be measured is very low around 100mΩ.

2-terminal measurement like normal Digital Multimeters is not suitable for this level of resistance due to the errors of impedance contribution of the wiring and contact resistances.

SK-3800 can eliminate such errors by 4-terminal measurement which assures the accurate testing.

#### Measurement Example (with TOYOTA Prius)

※Observe the procedures in maintenance manual.

- 1 Turn the power switch of the vehicle OFF. Remove the service plug grip.



- 2 Remove the inverter cover.

- 3 Disconnect the three-phase alternating current cable of the hybrid vehicle motor from the inverter.



- 4 Set the measurement range of the SK-3800.

- 5 Make the zero-adjustment for SK-3800. (Press "MEASURE" key with the test lead tips short-circuit. Then, press "0Ω ADJ" key.)

- 6 Connect the test leads to the three-phase alternating current cable terminals of the hybrid vehicle motor.



- 7 Press "MEASURE" key and read the resistance on LCD.







### KT-2021

#### FEATURES

- For various automotive measurements.  
Battery voltage / RPM\* / Injection pulse width /  
Charging current for alternator (with optional clamp adapter) /  
Temperature  
\*Except for rotary engine, diesel engine, and vehicle equipped  
with MSD or MDI systems.
- Large LCD with backlight and bar graph.
- Display hold, Auto power off functions.
- Error input warning.
- Equipped with holster and hard carrying case.

#### OPTIONAL ACCESSORIES

- 660 AC / DC Clamp Adapter
- 817-01 to 817-25 Temperature Probes
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 944 Test Pin
- 946 Battery Clip
- 793 Coil-Type Contact Pin

#### SPECIFICATIONS

- Display : 6000 count LCD
- Sampling Rate : (Numerical) 5 times / sec  
(Bargraph) 40 times / sec
- Range Selection : Auto / Manual Ranging
- Power Supply : 1.5V R03 or AAA Batteries (x 2)
- Fuse : F20 (0.63A/500V) x 1  
F32 (6.3A/500V) x 1
- CE Mark : V : CAT II 1000V, uA/mA/A : CAT II 450V  
and EMC
- Dimensions : 161(H) x 80(W) x 50(D) mm
- Weight : 340g
- Accessories : Holster, 100-66 Test Leads (x 1 set)  
653 RPM Sensor (for Direct Ignition)  
654 RPM Sensor (for High Tension Code)  
818-02 Temperature Probe  
943 Alligator Clip, 1024 Carrying Case  
1.5V R03 Batteries (Installed) x 2  
Spare Fuses F20 (0.63A/500V) &  
F32 (6.3A/500V) x 1 each



	Range	Resolution	Accuracy	Input Impedance
DC Voltage	60mV	0.01mV	$\pm 0.4\% \text{rdg} \pm 3 \text{dgt}$	$\approx 10 \text{M}\Omega$ , 50pF
	600mV	0.1mV	$\pm 0.3\% \text{rdg} \pm 3 \text{dgt}$	
	6V	1mV	$\pm 0.4\% \text{rdg} \pm 3 \text{dgt}$	
	60V	10mV	$\pm 0.4\% \text{rdg} \pm 3 \text{dgt}$	
	600V	100mV	$\pm 0.4\% \text{rdg} \pm 3 \text{dgt}$	
	1000V	1V	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$	
AC Voltage	60mV	0.01mV	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	$\approx 10 \text{M}\Omega$ , 50pF
	600mV	0.1mV	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	
	6V	1mV	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	
	60V	10mV	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	
	600V	100mV	$\pm 2.2\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	
	1000V	1V	$\pm 2.2\% \text{rdg} \pm 5 \text{dgt}$ (50Hz to 500Hz)	
	Range	Resolution	Accuracy	Voltage Drop
DC Current	600 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$	0.25mV / $\mu\text{A}$ 2.5mV / mA
	6000 $\mu\text{A}$	1 $\mu\text{A}$	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	
	60mA	0.01mA	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$	
	600mA	0.1mA	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	
	6A	1mA	$\pm 0.7\% \text{rdg} \pm 3 \text{dgt}$	
	10A	10mA	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	
AC Current	600 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$	0.25mV / $\mu\text{A}$ 2.5mV / mA
	6000 $\mu\text{A}$	1 $\mu\text{A}$	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$	
	60mA	0.01mA	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$	
	600mA	0.1mA	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$	
	6A	1mA	$\pm 2.2\% \text{rdg} \pm 5 \text{dgt}$	
	10A	10mA	$\pm 1.2\% \text{rdg} \pm 5 \text{dgt}$	
	Range	Resolution	Accuracy	Open Circuit Voltage
Resistance	600 $\Omega$	0.1 $\Omega$	$\pm 0.5\% \text{rdg} \pm 6 \text{dgt}$	0.45V DC
	6k $\Omega$	1 $\Omega$	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	
	60k $\Omega$	10 $\Omega$	$\pm 0.8\% \text{rdg} \pm 4 \text{dgt}$	
	600k $\Omega$	100 $\Omega$	$\pm 0.8\% \text{rdg} \pm 4 \text{dgt}$	
	6M $\Omega$	1k $\Omega$	$\pm 1.0\% \text{rdg} \pm 5 \text{dgt}$	
	60M $\Omega$	10k $\Omega$	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	

	Function	Range	Accuracy	Input Sensitivity
Frequency	6V	10Hz to 10kHz	$\pm 0.1\% \text{rdg} \pm 3 \text{dgt}$	0.5V rms
	60V	10Hz to 50kHz		5V rms
	600V			50V rms
	1000V	45Hz to 1kHz		500V rms
	Function	Range	Accuracy	
IP-RPM	RPM4	240 to 20000RPM	$\pm 0.2\% \text{rdg} \pm 20 \text{dgt}$	
	RPM2	120 to 10000RPM		
	RPM2-M	60 to 5000RPM		
IG-RPM	RPM4	60 to 20000RPM	$\pm 0.2\% \text{rdg} \pm 20 \text{dgt}$	
	RPM2	30 to 10000RPM		
	RPM2-M	15 to 5000RPM		
	Range	Accuracy	Selectable Number of Cylinders	
Dwell Angle	0° to 360°	$\pm 1.2^\circ / \text{krpm} \pm 1 \text{dgt}$	1, 2, 3, 4, 5, 6, 8, 10, 12	
Duty Cycle	0% to 100%	$\pm 0.04\% / \text{krpm} / \text{cyl} \pm 2 \text{dgt}$	1, 2, 3, 4, 5, 6, 8, 10, 12	
	Range	Accuracy	Test Current	
Fuel Injection Pulse Width	0.05ms to 250.0ms	$\pm 0.05\text{ms} \pm 1 \text{dgt}$	0.50mA	
Duty Cycle	0% to 100%	$\pm 0.04\% / \text{krpm} \pm 2 \text{dgt}$		
	Range	Accuracy	Test Current	
Diode Test	1.000V	$\pm 1.0\% \text{rdg} \pm 3 \text{dgt}$	0.50mA	
	Open Circuit Voltage : < 1.6V DC			
	Range	Resolution	Accuracy	
Temperature	-50°C to 1000°C	1°C	$\pm 0.5\% \text{rdg} \pm 3 \text{dgt}$	
	-58°F to 1832°F	1°F	$\pm 0.5\% \text{rdg} \pm 6 \text{dgt}$	
Continuity Test	Buzzer Sound : Approx. 10 to 200 $\Omega$ or less			
	Range	Resolution	Accuracy	
Capacitance	6.000 $\mu\text{F}$	0.001 $\mu\text{F}$	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$	
	60.00 $\mu\text{F}$	0.01 $\mu\text{F}$	$\pm 3.5\% \text{rdg} \pm 5 \text{dgt}$	
	600.0 $\mu\text{F}$	0.1 $\mu\text{F}$	$\pm 4.0\% \text{rdg} \pm 5 \text{dgt}$	
	2000 $\mu\text{F}$	1 $\mu\text{F}$	$\pm 4.0\% \text{rdg} \pm 5 \text{dgt}$	
Functions	Bargraph, Range Hold, Display Hold, Auto Power Off, Backlight, Error input warning			

#### Equipped with an Useful Carrying Case



#### Accessories, Optional Accessories

##### MODEL 660 AC / DC Clamp Adapter (Optional Accessories)

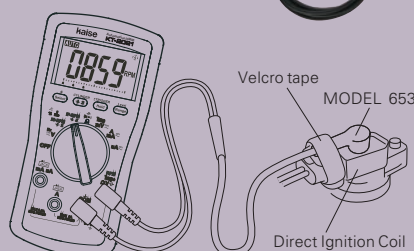
The charge current of alternator can be measured just clamping.



- Range : DC/AC 40A/400A
- Output : DC/AC 100mA/mV(40A Range)  
DC/AC 1A/mV(400A Range)
- Accuracy :  $\pm 1.5\%$  to  $7.0\% \text{rdg} \pm 0.5 \text{mV}$
- Power Supply : 1.5V R6P or AA Batteries (x2)
- Conductor Diameter :  $\phi 19 \text{mm}$  Max.
- CE Mark : CAT II 300V, CAT I 600V, class 2  
and EMC
- Dimensions : 180(H) x 43(W) x 31(D)mm
- Weight : 210g
- Cable length : 145cm

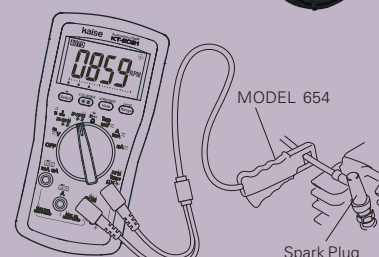
##### MODEL 653 RPM Sensor (Accessories)

For engine speed measurement of direct ignition engine that is equipped for the most of gas-powered car recently.



##### MODEL 654 RPM Sensor (Accessories)

For engine speed measurement by clamping on the high tension cord.







### SK-6166

#### FEATURES

- RPM, 20mA and 20A DC / AC, and Continuity Tests.  
(Non-usable for Harley-Davidson V-twin engine 45° angle)
- 200A DC / AC measurements by optional 660 Clamp Adapter.

#### SPECIFICATIONS

Display : 2000 count LCD, Maximum Reading 1999  
 Sampling Rate : 2 times / sec  
 Range Selection : Auto / Manual Ranging  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 Fuse : F12 (0.3A/250V) x 1, F18 (15A/250V) x 1  
 CE Mark : CAT II 300V and EMC  
 Dimensions : 160(H) x 75(W) x 34(D) mm  
 Weight : 180g  
 Accessories : 100-57 Test Leads (x 1 set)  
 650 RPM Sensor (x 1), 940 Alligator Clips (x 1 set)  
 995 Carrying Case (x 1), 1.5V R6P Batteries (x 2)  
 Spare Fuses F12 (0.3A/250V) & F18 (15A/250V) x 1 each

#### OPTIONAL ACCESSORIES

660 AC / DC Clamp Adapter  
 100-41 Test Lead Kit  
 100-62 Test Lead Set  
 948 Alligator Clips  
 944 Test Pin  
 946 Battery Clip  
 793 Coil-Type Contact Pin



	Range	Resolution	Accuracy	Input Impedance
DC Voltage	200mV	0.1mV	$\pm 1.2\%rdg \pm 2dgt$	$\geq 100M\Omega$
	2V	1mV		$\approx 11M\Omega$
	20V	10mV		$\approx 10M\Omega$
	200V	100mV		
	300V	1V		
AC Voltage	2V	1mV	$\pm 2.3\%rdg \pm 7dgt$	$\approx 11M\Omega$
	20V	10mV		$\approx 10M\Omega$
	200V	100mV		
	300V	1V		
	Range	Resolution	Accuracy	Voltage Drop
DC Current	20mA	10 $\mu A$	$\pm 1.0\%rdg \pm 4dgt$	$\leq 0.5V$
	20A	10mA	0 to 10.00A	$< 0.5V$
			$\pm 1.5\%rdg \pm 2dgt$	
			10.01 to 20A	
20mA	10 $\mu A$	$\pm 2.5\%rdg \pm 4dgt$		
AC Current	20A	10mA	$\pm 2.0\%rdg \pm 8dgt$	$< 0.5V$
			0 to 10.00A	
			$\pm 2.0\%rdg \pm 7dgt$	
			10.01 to 20A	
			$\pm 3.0\%rdg \pm 10dgt$	
	Range	Resolution	Accuracy	Test Current
Resistance	200 $\Omega$	0.1 $\Omega$	$\pm 1.5\%rdg \pm 4dgt$	$\leq 0.4mA$
	2k $\Omega$	1 $\Omega$		$\leq 0.2mA$
	20k $\Omega$	10 $\Omega$		$\leq 30\mu A$
	200k $\Omega$	100 $\Omega$		$\leq 3\mu A$
	2M $\Omega$	1k $\Omega$	$\pm 1.8\%rdg \pm 4dgt$	$\leq 0.3\mu A$
	20M $\Omega$	10k $\Omega$	$\pm 5.0\%rdg \pm 4dgt$	$\leq 0.03\mu A$
	Open Circuit Voltage : approx. $\leq 0.43V$			
	Range	Resolution	Accuracy	Sparks
RPM	12000RPM	10RPM	$\pm 2\%rdg \pm 10dgt$	1 spark/1 revolution
	6000RPM			2 sparks/1 revolution
Continuity Test	2k $\Omega$ (Buzzer Sound : Approx. 500 $\Omega$ or less)			
	Range	Resolution	Test Current	
Diode Test	2V	1mV	$\leq 0.6mA$	
	Open Circuit Voltage : $\leq 1.7V$			
Functions	Range Hold, Display Hold, Auto Power Save			

# Digital Tachometer



### SK-8401 DIGITAL TACHOMETER

#### FEATURES

- Quick and Easy Measurement.
- Measurable with Various Types of Engines.  
(except for rotary engine, diesel engine, and vehicle equipped with MSD or MDI systems.)

#### OPTIONAL ACCESSORIES

650 RPM Sensor (for High Tension Cord)

#### SPECIFICATIONS

Display : Maximum Reading 9999  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : EMC test passed  
 Dimensions : 148(H) x 83(W) x 33(D) mm  
 Weight : 180g  
 Accessories : 653 RPM Sensor (x 1)  
 995 Carrying Case (x 1)  
 1.5V R6P (AA) batteries x 2

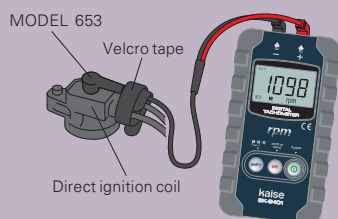
	Range	Resolution	Accuracy	Maximum Input
rpm	100 to 9999 rpm	1 rpm	$\pm 0.2\% \text{rdg} \pm 10 \text{rpm}$	10000 rpm
Display Hold, Auto Power Off				



#### Quick and Easy Measurement

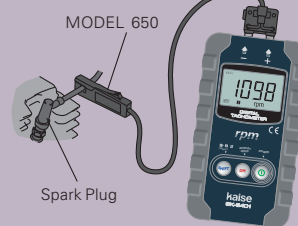
##### Measurement of Direct Ignition Engine

Use 653 RPM Sensor (provided)  
 Sensor head is fixable by using velcro tape attached.



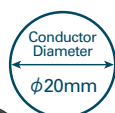
##### Measurement of High Tension Cord Type Engine

Use 650 RPM Sensor (option)



## Low Current DC Clamp Meter

Quick and Easy Dark Current Measurement Just Clamping-On



DC 4000mA DC 40A/200A DIFF AUTO ZERO DISP HOLD APO

### SK-7830

#### FEATURES

- Automatic Zero-Adjustment function to adjust LCD indications into 0±1 digit when powered on.
- Stable LCD reading even in low current.
- Shielded clamp core prevents external noise or effect of external magnetic field.

	Range	Accuracy
DC Current	4000mA	from 5mA
	40A	0A to 100A
	200A	101A to 200A
Functions	Difference, Power-on Initialize, Display Hold, Auto Power OFF	

#### SPECIFICATIONS

Display : 4000 count LCD, Maximum reading 4050  
 Sampling Rate : 64 times/sec (Display : 1 time/sec)  
 Range Selection : Manual (4000mA), Auto (40A/200A)  
 Conductor Diameter :  $\phi$  20mm Max.  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : CAT III 300V and EMC  
 Dimensions : 203(H) x 61(W) x 30(D) mm  
 Weight : 230g  
 Accessories : 1011 Carrying Case (x 1)  
 1.5V R6P Batteries (x 2)

#### Car Measurement with SK-7830

##### Dark Current Measurement

Dark Current : mA-level low current that is used after turning off the engine by such as car security system or audio settings back-up. Too much dark current causes battery runs out, but its measurement was difficult. SK-7830 solved this problem and make it quick and easy.

- 1 Leave the engine turned off for about 15 minutes. All electric components (headlights or lamps) must be turned off.
- 2 Clamp-on a minus cable of car battery.
- 3 Read the measurement value. If it is higher than the specified value, check 1 once again.



##### Car Alternator's Charging Current Measurement

Car Alternator : Engine generator that outputs DC electricity. Measuring its charging current is effective to find the trouble that might cause battery runs out or battery damages.

- 1 Clamp B-terminal cable from car alternator.
- 2 Start the engine.
- 3 Alternator has no problem if 20A to 40A is displayed first, and then it slowly becomes lower.



## O2 Sensor Checker

Deterioration level of O2 sensor can be checked easily by bar-graph

DC V DISP HOLD APO

### SK-8402 O<sub>2</sub> SENSOR CHECKER

#### FEATURES

- Deterioration level of O2 sensor can be checked easily by bar-graph
- Rich, Lean, Average voltages and Cycle are displayed respectively.
- Simulated sensor signal output is available.

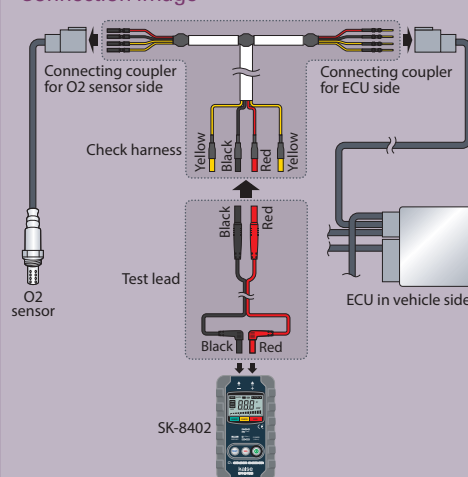
SK-8402 is the O2 Sensor Checker for the O2 sensor of Zirconia, Titania 1V/5V. SK-8402 can not check deterioration judgment of A/F (air-fuel ratio) Sensor or Rear O2 Sensor.

#### SPECIFICATIONS

Display : (Numerical) 999 count LCD,  
(Bargraph) 13 segments  
 Sampling Rate : 500 times/second  
(LCD : 1 time/second in stand-by mode)  
 Range Selection : Auto Ranging  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : EMC test passed  
 Dimensions : 148(H) x 83(W) x 33(D) mm  
 Weight : 220g  
 Accessories : 100-65 Test Lead (x 1 set)  
 911 Check Harness (x 1)  
 947B Black Alligator Clip (x 1)  
 795 Test Pins: Red & Black (x 1 set)  
 1030 Carrying case (x 1)  
 1.5V R6P Batteries (x 2)

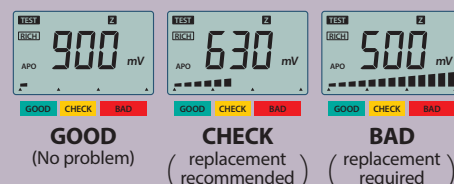
	Range	Accuracy	Resolution
DC Voltage	999mV	0 to 200mV: $\pm 1.5\% \text{rdg} \pm 10 \text{dgt}$	1mV
	201 to 999mV: $\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$		
	6.00V	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	10mV
Functions	Display mode changing, Simulation Test, Display Hold, Auto Power Off		

#### Connection image



#### Bar-Graph Display

Deterioration level of O2 sensor can be checked easily by bar-graph.



## Digital Sound Level Meter

For Sound Level Check of Living Environment



### NEW KG-70



#### FEATURES

- Select frequency weighting (A/C).
- Select time weighting (FAST/SLOW).
- Rubber Grip.
- MAX/MIN measurement.
- Display Hold.
- Auto Power Off.

#### SPECIFICATIONS

Display : 11mm high  
 Measuring Range : 30dB to 125dB (A Weighting / C Weighting)  
 Accuracy :  $\pm 5$ dB  
 Sampling Rate : 2 times/second  
 Time Weighting : 125ms (FAST mode) or 1s (SLOW mode)  
 Power Supply : 9V 6F22 x 1  
 Dimensions : 193(H) x 67(W) x 44(D) mm  
 Weight : 184g  
 Accessories : Wind Screen, 9V 6F22 Battery x 1 (Installed),

#### OPTIONAL ACCESSORIES

1026 Carrying Case

#### Sound levels in everyday life

Noisy sound such as from factory, airplane, or automobile sometimes disturbs our comfortable life. Generally, quiet sound level in everyday life is less than 45dB, Comfortable sound level will be around 40dB to 60dB.

Sound Level	Sound Example	
120dB	Airplane take off at 300m	Very painful
110dB	Car horn at 2m	
100dB	Chain saw	
90dB	Noisy factory	Very noisy
80dB	Subway inside (open-window), Piano	
70dB	Vacuum cleaner, Noisy office	
60dB	Normal conversation, TV sound	Loud
50dB	Quiet office	
40dB	Library	
30dB	Whispering voice	Moderate
20dB	Leaves rustling	

#### Advantages of SK-8530

##### Backlight LCD

Easy reading even in the dark places.



##### MAX/MIN measurement

Display should change as following by pressing MAX/MIN Key.

##### Display Hold

Freeze the readings by pressing HOLD Key.

##### Auto Power Off

Power turns off automatically after approx. 5 minutes of last operation.

##### Rubber Grip

Side rubber assures good grip neatly fit in your hand.



## Digital Light Meter

For Illuminance Testing for Indoor Facilities



### NEW KG-75



#### FEATURES

- Lux and Fc (foot-candle) are selectable.
- Backlight LCD.
- Rubber Grip.
- MAX/MIN measurement.
- Display Hold.
- Auto Power Off.

#### SPECIFICATIONS

Display : 11mm high  
 Sensor : Silicon photodiode and filter  
 Measuring Range : 0 to 99990Lux, 0 to 9999Fc  
 Sampling Rate : 2.5 times/second  
 Range Selection : Auto Ranging  
 Power Supply : 9V 6F22 x 1  
 Dimensions : 192(H) x 67(W) x 44(D) mm  
 Weight : 198g  
 Accessories : 9V 6F22 Battery x 1 (Installed),

#### OPTIONAL ACCESSORIES

1026 Carrying Case

Range	Accuracy	Resolution
0.00 to 19.99Lux	0 to 300Lux: $\pm 6\% \pm 3$ dgt	0.01Lux
20.00 to 199.9Lux	301 to 4000Lux: $\pm 6\%$	0.1Lux
200 to 9999Lux	4001 to 99990Lux: $\pm 10\%$	1Lux
1000x10 to 9999x10Lux		10Lux
Functions	Backlight, MAX / MIN, Display Hold, Auto Power Off	

#### Measurement Procedures

- ① Press POWER Key and turn the power on.
- ② Remove the sensor cap.
- ③ Hold out the sensor to the object to be measured.
- ④ Read the measurement value on LCD.

LCD shows  $\times 10$  sign when measurement value exceeds 9999Lux.

Example : 56180Lux



#### Measurement units

1Lux : Equal to one lumen per square meter.  
 1Fc : Equal to one lumen per square feet.  
 $1\text{Lux} \approx 0.09290\text{Fc}$      $1\text{Fc} \approx 10.764\text{Lux}$





## Triaxial ELF Magnetic Field Meter

True RMS! High Performance!



## SK-8301 TRIAXIAL ELF MAGNETIC FIELD METER

### FEATURES

- Accurate Measurement by Triaxial Sensor.
- True RMS.

### SPECIFICATIONS

Display : 2000 count LCD, Maximum Reading 2000  
 Operating Principle : Triaxial True RMS (X, Y, Z)  
 Sampling Rate : 2 times / second  
 Range Selection : Auto Ranging  
 Rectification : True RMS  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : EMC test passed  
 Dimensions : 148(H) x 83(W) x 33(D) mm,  
 Weight : 220g  
 Accessories : 1015 Carrying Case  
 1.5V R6P Batteries (x 2)

	Range	Resolution	Accuracy	Maximum Input
$\mu T$ measurement	20.00 $\mu T$ 200.0 $\mu T$	0.01 $\mu T$ 0.1 $\mu T$	$\pm 2\%rdg \pm 5dgt$ (50/60Hz) $\pm 5\%rdg \pm 5dgt$ (40Hz to 1kHz)	200.0 $\mu T$
mG measurement	200.0mG 2000mG	0.1mG 1mG	$\pm 2\%rdg \pm 5dgt$ (50/60Hz) $\pm 5\%rdg \pm 5dgt$ (40Hz to 1kHz)	2000mG
Functions	MAX/MIN, Average, Display Hold, Auto Power Off			

### Advantages of SK-8301

#### Accurate Measurement by Triaxial Sensor



#### In the field of multiple electromagnetic sources

Electromagnetic comes from mixed directions if multiple sources are existing. Even in such field., SK-8301 can measure correct magnetic flux density by its triaxial (X, Y, Z) sensor.

X: Right and left  
 Y: Back and forth  
 Z: Up and Down

#### True RMS

Due to large distortion contained in electromagnetic wave, measurement result by average rectification meter should be incorrect. SK-8301 measures in True RMS and the measurement result is always accurate.

## Digital Thermometer

Wide Range of Temperature Measurement from -99.9°C to 1300°C (-148°F to 2372°F)



## SK-6850 DIGITAL THERMOMETER

### FEATURES

- MAX/MIN and Average measurements are possible.
- Temperature Sensor : K-type thermocouple.
- Long-Time Measurement for 1000 Hours.  
 (For alkaline cells)
- Centigrade (°C) and Fahrenheit (°F) are Selectable.
- Various Types of Optional Temperature Sensor.
- Double-molded rubber to get steady grip during the measurement.
- Easy-to-Read Large Display.

### OPTIONAL ACCESSORIES

817-01 to 817-25 Temperature Probes  
 732 Miniature Connector Conversion Plug

### SPECIFICATIONS

Display : Maximum reading 9999  
 Temperature Sensor : Thermocouple K Type  
 Sampling Rate : 2 times / second  
 Range Selection : Auto Ranging  
 Power Supply : 1.5V R6P or AA Batteries (x 2)  
 CE Mark : CE marking compliant  
 Dimensions : 148(H) x 83(W) x 33(D) mm  
 Weight : 185g  
 Accessories : 818-02 Temperature Probe  
 995 Carrying Case (x 1)  
 1.5V R6P Batteries (x 2)

	Range	Accuracy	Resolution	Maximum Input
°C (Auto-ranging)	-99.9 to 199.9 190 to 1300	$\pm 0.5\%rdg \pm 0.8^{\circ}C$ $\pm 0.5\%rdg \pm 1^{\circ}C$	0.1°C 1°C	1300°C
°F	-148 to 2372	$\pm 0.5\%rdg \pm 2^{\circ}F$	1°F	2372°F
Functions	MAX/MIN, Average, Display Hold, Auto Power Off			

### Optional Temperature Probes for SK-6850 [TYPE K (CA)]

MODEL	Dimensions (Sensor)	Measurement Range	Application
817-01	3.2 $\phi$ X 250mm	-50°C to 800°C	For Liquid Temperature Measurement
817-03	5 $\phi$ X 500mm	-50°C to 1150°C	For Liquid Temperature Measurement
817-17	1.6 $\phi$ X 150mm	-50°C to 600°C	For Internal Temperature Measurement like food or chemical materials and Liquid Temperature Measurement
817-19	3.2 $\phi$ X 150mm	-50°C to 750°C	For Internal Temperature Measurement like food
817-25	3.2 $\phi$ X 150mm	0 to 200°C	For Air Temperature Measurement like Air Conditioner

\*Compensation Lead : Conventional type (-20°C to 90°C) 1.5m

### Dimensions of Temperature Probes

MODEL	Tip Form	Dimensions	MODEL	Tip Form	Dimensions
817-01			817-19		
817-03			817-25		
817-17					

Unit : mm



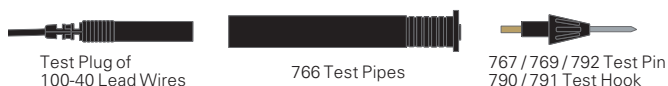
## 100-41 Test Lead Kit



Models	Test Lead Kit
100-40	Lead Wires
766	Test Pipes
767	Test Pins
769	L Type Test Pins
790	Test Hook for Dark Current
791	Test Hook for Dark Current
792	Straight Test Pins
942	Alligator Clips

\*Red and black parts are contained except for 790 and 791.

Connect Test Plugs and Test Pipes of 100-40 Lead Wire, and connect 3 kinds of Test Pin or 2 kinds of Test Hook.



Applicable Models
SK-7682/7718/7720/7722/7708/7615/7625/7815/6161/6163/6150/4033/4035/355/6166
KU-2600/2602 KF-32/20 KT-2021

Models	767	769	790	791	792
Length of Pin	19mm	15mm	68mm	74mm	25mm
Inside Diameter	—	—	φ 10mm	φ 16mm	—
Tip Diameter	φ 2mm	φ 0.9mm	φ 0.9mm	φ 0.9mm	φ 0.5mm
Max. Voltage	1000V	1000V	100V	100V	100V
Max. Current	10A	1A	1A	1A	1A

**767**  
Test Pin

**769**  
L Type Test Pin

**790/791**  
Test Hook

**792**  
Straight Test Pin

**766**  
Test Pipes  
Max. Voltage : 1000V  
Max. Current : 10A

**942**  
Alligator Clips  
Max. Voltage : 1000V  
Max. Current : 20A  
Jaw Opening : 20mm

**100-40**  
Lead Wires  
Wire Length : 1.6m  
Max. Voltage : 1000V  
Max. Current : 10A

**1002**  
Carrying case

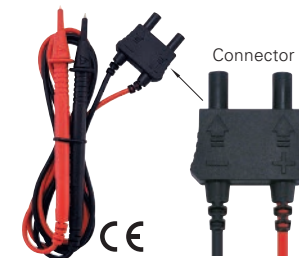
## 100-62 Test Lead Set

Combination of useful components from 100-41.



Models	Test Lead Set
100-40	Lead Wires
766R	Red Test Pipe
792R	Red Straight Test Pin
942B	Black Alligator Clip
Applicable Models	
Same models 100-41	

## 100-63 Test Leads



Newly-developed test lead for our mini-clamp meter series.  
+ / - integrated connector that can hardly pulled out during measurement.

Applicable Models
SK-7660/7661/7602/7820/7825

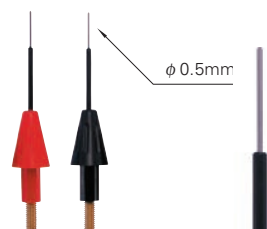
## 100-57 Test Leads



Major test lead for our products.  
Gold-plated pins assures long-lasting contact.

Applicable Models
SK-7682/7718/7720/7722/7708/7615/7625/6161/6163/6150/4033/4035/355/6166

## 792 Straight Test Pin



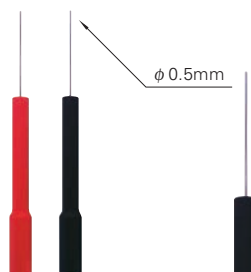
Extra fine and elastic test pin only 0.5mm diameter, that is very suitable for narrow point measurement. Insulation coated bottom to prevent incorrect measurement.

Max. Current : 1A Max. Voltage : 100V

Applicable Models
SK-6592/6597/6598/100-41

\*Only red pin is available for SK-6592/6597/6598.

## 795 Test Pin



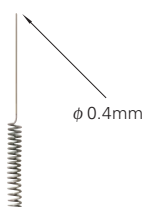
Extra fine test pin only 0.5mm diameter. It is very suitable for narrow point measurement. Use it with connecting to 100-40 test plug.

※Difference from 792 straight test pin :  
795 can connect to 100-40 directly without 766 test pipes.

Max. Current : 1A Max. Voltage : 100V

Applicable Models
SK-8402/100-40

## 793 Coil-Type Contact Pin

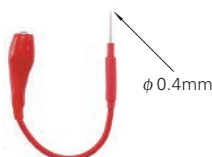


Extra fine test pin. It takes care not to scratch the object by spring structure.

Max. Current : 1A  
Max. Voltage : 100V

Applicable Models
SK-7660/7661/7682/7718/7720/7722/7708/7602/7615/7625/7815/7820/7825/6161/6163/6150/6597/6598/6592/4033/4035/6555/6500/355/6166
KU-2600/2602/1199 KF-32/20 KT-2021

## 944 Test Pin

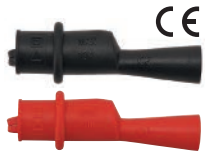


This test pin is suitable for narrow point measurement. That can measure with inserting the pin to the backside of insulation coupler of the car.

Applicable Models
SK-6166 KT-2021

## Clips

### 948 Alligator Clips



#### Applicable Models

SK-7660/7661/7682/7718/7720/7722/7708/7602  
7615/7625/7815/7820/7825/3500\*/3502\*/6161  
6163/6150/6597/6598/6592/4033/4035/6555  
6500/355/6166  
KU-2600/2602/1199 KF-32/20

\*Only red clip is available for SK-3500/3502.

### 940 Alligator Clips



#### Applicable Models

SK-7660/7661/7718/7720/7722/7708/7602/7615  
7625/7815/7820/7825/3500\*/3502\*/6161/6163  
6150/6597/6598/6592/4033/4035/6555/6500  
355  
KU-2600/2602/1199 KF-32/20

\*Only red clip is available for SK-3500/3502.

### 946 Battery Clip



Big alligator clip can hold the battery terminal firmly. It can operate the instrument without putting it.

#### Applicable Models

SK-6166 KT-2021

### NEW 949 IC Clip



Hooked clip tips that are useful for fixing the unstable measurement items.  
※To be used with 100-40 Lead Wires.

#### Applicable Models

Same models 100-41

## Temperature Probe

Applied for the testers that have temperature measurement function.

### 818 Temperature Probe (Stock limited)



Measurement	Applicable Models
-50°C to 160°C	SK-7720/7722

### 818-02 Temperature Probe



Measurement	Applicable Models
-50°C to 100°C	KU-2602 KT-2021 SK-6850

## Standard Accessories (excerption)

Test Leads	
100-03	100-50
100-34	100-51
100-36	100-52
100-36 (Red)	100-57
100-40	100-61
100-40-1	100-63
100-40-2	100-64
100-44	100-65
100-45	100-66
100-46	100-68 (Black)
100-48	

Carrying Case	
978	1007
983	1011
985	1012
985-02	1013
988	1015
991	1016
995	1020
1000	1022
1004	1024
1005	1026
1006	1030
1007	1035

Alligator Clips	
940	945B (Black)
942	947B (Black)
942B (Black)	948
943	

Fuse	
F12 (0.3A/250V)	F24 (3A/600V)
F13 (0.5A/250V Non-arcing)	F25 (15A/600V)
F14 (0.5A/250V)	F26 (1A/600V)
F15 (0.75A/250V)	F29(3A/600V)
F16 (15A/250V)	F30(10A/600V)
F18 (15A/250V)	F31(0.5A/250V)
F19 (25A/250V)	F32(6.3A/500V)
F20 (0.63A/500V)	F33(15A/1000V)
F22 (0.5A/600V)	F34(2A/1000V)
F23 (1A/600V)	

## Clamp Adapter

### 821 AC Clamp Adapter



821 assures the accurate measurement by true RMS. It can connect not only to the recorder by BNC connector but to the banana input instrument by use of bundled conversion adapter.

Measurement	Applicable Models
AC 0 to 400A	KU-2600/2602 SK-6161/6163/6150/4033 4035

CE Mark : CAT III 300V, CAT II 600V and EMC

### 660 AC / DC Clamp Adapter



660 can measure up to 400A AC / DC by using in combination with Digital Multimeters that can measure 400mV AC / DC.

Measurement	Applicable Models
AC 0 to 400A	KU-2600/2602
DC 0 to 400A	SK-6161/6163/6150/4033 4035/6166 KT-2021

CE Mark : CAT II 300V class 2 and EMC

## Conversion Adapter

### 731 BNC Conversion Adapter



731 can convert BNC connector to banana plug.

Applicable Models
KU-2600/2602 SK-6161/6163/6150/4033/4035 821 AC Clamp Adapter

### 732 Miniature Connector Conversion Plug



732 can convert miniature connector to banana plug.

※K-type temperature sensor only.

Applicable Models
KU-2602 SK-6850

## Line Separator

### 880 Line Separator



Applicable Models
SK-7660/7661/7718/7720/7722/7601 7602/7615/7625/7708/7815/7820 7825 821 Clamp Adapter

## Mark Descriptions

### Measurement Items



#### AC Current

AC Current measurement is possible.



#### DC Current

DC Current measurement is possible.



#### AC Voltage

AC Voltage measurement is possible.



#### DC Voltage

DC Voltage measurement is possible.



#### Resistance

Resistance measurement is possible.



#### Continuity Test

The buzzer sounds when the measuring object is electrically conducting.



#### Frequency

Frequency measurement is possible.



#### Diode Test

Diode test is possible measuring its forward and reverse side.



#### Temperature

Temperature is measurable using the temperature probes.



#### Capacitance

Capacity of electronic capacitor (electrostatic capacity) is measurable in F (farad) unit.



#### Duty Cycle

The duty cycle of repeating waveform is measurable and indicated in a percentage basis(%).



#### Decibel (low-frequency output)

Low frequency output like audio amplifier is measurable in dB (decibel) unit.



#### Pulse Width

Waveform pulse width for logic or switching controls are measurable in ms (milli-second) unit.



#### Battery Test

Battery voltage and its condition are tested applying a certain current to the tester.



#### Dwell Angle

Electricity time for automobile engine is measurable converting into an angle.



#### Revolutions Per Minute

RPM of automobile engine is measurable.



#### Low Resistance

Low Resistance measurement is possible.



#### Sound Level

Noise level measurement is possible.



#### Illuminance

Illuminance measurement is possible.



#### Magnetic Field

Magnetic Field measurement is possible.

### Measurement Functions



#### True RMS (True root-mean-square value)

True RMS value. AC current and voltage of a non-sine wave can be measured by true RMS values.



#### Display Hold

Enables to hold the indicating values on LCD. Useful to note down the measurement values.



#### MAX/MIN

The minimum and maximum of the measurement values are measurable and indicates on LCD.



#### Average

The average of the measurements value for a certain period of time is measurable.



#### Peak Hold

The Peak current value in a certain period of time is measurable and indicates on LCD.



#### Difference

A certain measurement value is stored and converted into zero. The difference between measuring value and stored value is indicated with proceeding measurements.



#### Range Hold

Enables to hold the ranges when the Current or Voltage values are unstable and difficult to read.



#### Bar graph

Bar Graph is available on LCD. Zoom-up function is available for some models.



#### Auto Power Off

Power is automatically turned off when a certain period of time has elapsed after the power on. Some models are enabled to cancel this function.



#### Auto Power Save

Display is automatically turned off and into power save condition when a certain period of time has elapsed after the power on. Some models are enabled to cancel this function.



#### Data Memory

Measurement data can be saved in internal memory.



#### Power-On Initialize

Automatic Zero-Adjustment function to adjust LCD indications into 0±1 digit when powered on.



#### Low Pass Filter

Frequency signals higher than the specified cutting-off frequency are intercepted.



#### Backlight LCD

Useful for easy reading even in dark areas.



#### Penlight

Brightly illuminate test points with LED light. Useful for testing in dark place.



#### Comparator (Comparing function)

Buzzer sounds when the input value is beyond the specified high and low limits.



#### Drop Proof

Anti-shock structure enables to protect the tester from the strong shock by the 1-meter-dropping-off.



#### Output Terminal

An output terminal connectable to the Oscilloscopes or Recorder is available.



#### Dust Proof

Dust-proof case is used to protect the tester from dust damage.



#### Fireproof Case

The fireproof case protects the instrument inside from fire.



#### Simple Water Resistant

Water-Resistant case is used to protect the tester from water damage.



#### Error input warning

Safety function to prevent incorrect test lead connection.



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