

Continuity Test



AC Current



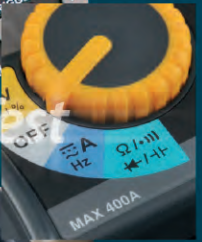
Frequency



Insulation Resistance



Diode Test



AC Voltage



Capacitance



Temperature



DC Current



Resistance



DC Voltage



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792 / 793 / 795 / 944 / 948 / 940	
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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.



**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.

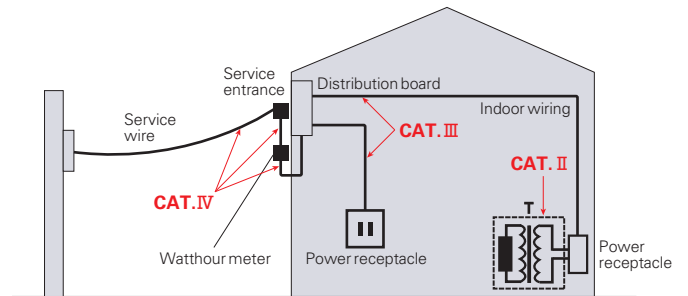
High Power Line sometimes includes Surge Voltage more than 10 times of the rated voltage. So, the Surge Voltage will cause electric shock accidents when measuring with the ordinary multimeters. Even if the circuit to be measured is of Low Power, if the voltage is greater than 220V, use the instruments 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.

<p><b>Insulation Cap for Test Lead</b></p>	<p><b>Kaise conforms to IEC 61010-031 (safety standard for hand-held probes) by using test lead caps.</b> Required standards : Exposed metal part must be 4mm or shorter for CAT IV and III environments to prevent short-circuits from occurring.</p>	<p><b>No Cap attached</b></p> <p>For CAT II environment</p>	<p><b>Cap attached</b></p> <p>For CAT III and IV environments</p>

**CE Mark**

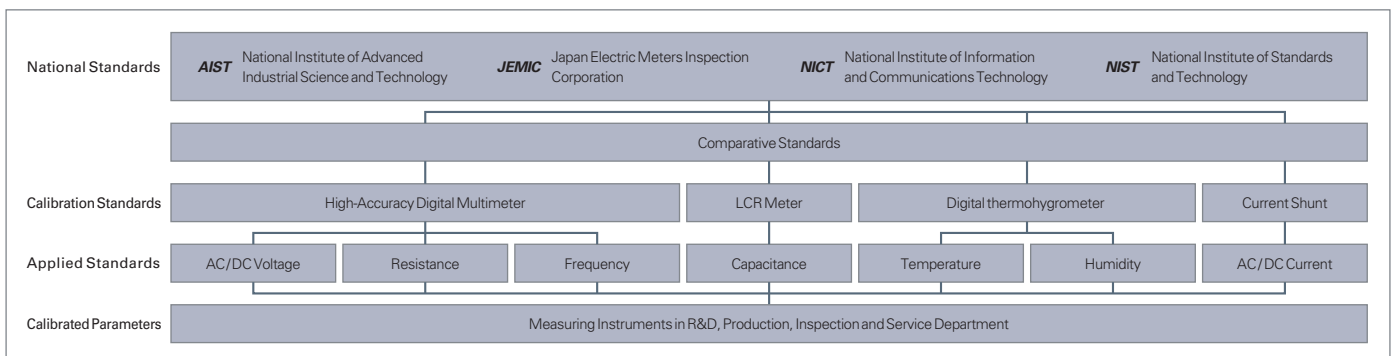


CE marking is a safety mark which can be attached only on a product meeting the safety requirements of the Directive of Council of the European Union (EC Directive).

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 give 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.



New and Improved Battery Checker with Advanced Functions

12V Battery Test  
12V & 24V Start Performance, Charging System Test

**NEW SK-8550**

**FEATURES**

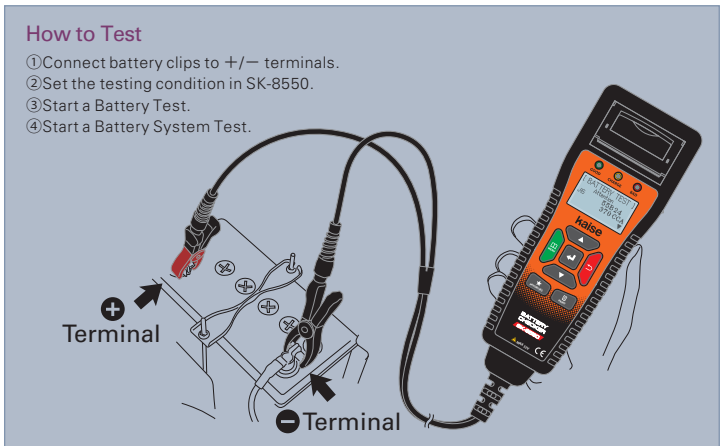
- Can record frequently tested batteries as favorites list.
- Can count and record the number of testing.
- One-touch printing by Direct-Print Key available on the instrument.
- Detachable battery cable for easy replacement.
- Editable header / footer function that can print favorite names or pictures (shop name, etc.) on the printer paper.

**SPECIFICATIONS**

Display	: LCD (dot matrix display : 128×64 dots)
Language (display & print)	: Japanese, English (Default setting : English)
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 55(D) mm
Weight	: Approx. 670g
Accessories	: 800 Battery cable (attached), 934 USB Cable, Printer Paper (x 2, for testing sample, 1 roll is attached in the unit), 1032 Carrying Case

**OPTIONAL ACCESSORIES**

- 851 Printer Paper
- 800 Battery cable



**Advantages of SK-8550**

**Header / Footer Function**

Can edit and print the favorite names or pictures (shop name, etc.) on printer paper as header and footer, by downloading the user application from Kaise website.

**Favorite Function**

Can record up to 50 frequently tested battery codes as favorite list. You can find the battery to be tested easily by pressing "FAVORITES" Key. Record name is editable.

**Number of Testing Counter**

Can count and record the number of testing. This function helps to check your maintenance record.

Header

**ABC Mechanical**  
Tel XXX-XXX-XXX  
Fax XXX-XXX-XXX  
E-Mail xxx@xxxx.xx

**Battery Test Report**

Date and Time  
2017/03/15 15:00  
(Aging Test Mode)

**Test Result : Good**

Battery Type \_\_\_\_\_ JIS  
Model No. \_\_\_\_\_ Q-85  
Measured CCA \_\_\_\_\_ 615CCA  
Battery Voltage \_\_\_\_\_ 12.780V  
Temperature \_\_\_\_\_ 24°C

Testing Mode  
Charge controller / Idle Reduction

**SOC (State of Charge) : 100%**

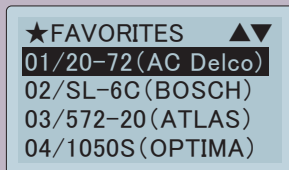
**SOH (State of Health) : 100%**

Periodical test is recommended.

**Can Record "CCA / mΩ" in Favorite list**

You can record "CCA / mΩ" values in favorite list. This can help easy testing without inputting these values for every test.

(CCA values are edited into battery codes in the following example.)



**View Test Count**

Battery Test	52
System Test	37
↶ Press Hold : Reset	

**Direct-Print Key**

You can print out the testing result easily by just pressing direct-print key available on the instrument.

**Detachable Battery Cable**

Battery cable tends to be damaged by everyday battery testing.

For SK-8550, you can replace the battery cable by only one screwdriver.



800 Battery Cable (for replacement)

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

- 12V Battery Test
- 12V & 24V Start Performance, Charging System Test



## 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.
- Double Differential Pulse Test Method for more accurate testing.
- Unused Battery Test Mode.
- Carrying Case for Protection.
- 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) × 96(W) × 50(D) mm
Weight	: Approx. 550g
Accessories	: 934 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)

#### 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.

#### Built-in Printer

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



#### Double Differential Pulse Test Method for more accurate testing

#### Industrial Battery Testing

#### Display & Print Language Selectable

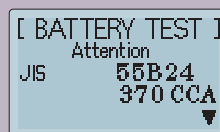
English / Chinese / Japanese are available.

#### Test Result Saving & PC Connection

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

#### 5-grade Judgement

LED shows the test result by following 5-grade. "Attention" is useful to let the customer know the necessity of battery replacement to prevent the unexpected battery-down.



Good	● light
Good/Charge	● light
Attention	● flash
Charge/Retest	● light
Replace	● light

#### Unused Battery Test Mode

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

Enhanced portability and dust protection for the instrument.

#### Auxiliary battery test for TOYOTA-Hybrids

Applicable to auxiliary batteries models S34B20 / S46B24 S55D23 / S65D26 which are used for TOYOTA-Hybrid vehicles such as Prius, or Prius C.

#### Easy Database Upgrade through KAISE Website

※PC and internet connection are required.

#### High-Intensity Polycarbonate Body

#### Built-in Printer

Can print the test results easily and quickly. Language selectable from English / Chinese / Japanese.

#### Battery Test

**Battery Test Report**

Date and Time: 2016/03/15 15:00 (Testing date and time)

(Aging Test Mode) (Battery test mode)

**Test Result : Good** (Battery test result)

Battery Type: JIS (Condition of tested battery)

Model No.: 0-85

Measured CCA: 615CCA

Battery Voltage: 12.780V

Temperature: 24°C

Testing Mode: Charge controller / Idle Reduction

Charge controller / Idle Reduction SOC (State of Charge): 100% (Battery charging level (SOC))

SOH (State of Health): 100% (Battery aging level (SOH))

Periodical test is recommended. (Comment for test result)

#### System Test

**System Test Report**

Date and Time: 2016/03/15 15:00 (Testing date and time)

(12V System) (12V / 24V System)

**START PERFORMANCE TEST** (Engine start performance test result)

Test Result : Good

Cranking: 8.619V (Battery conditions at engine starting)

Start Performance: 100%

**CHARGING SYSTEM TEST** (Charging system test result)

Test Result : Good

Charging Voltage: 14.523V (Battery conditions)

Ripple Voltage: 0.110V

Periodical test is recommended. (Comment for test result)

# Oscilloscope

2ch Hand-held Oscilloscope Especially for Car Mechanics

Graph mode



DMM mode



## NEW SK-2500

### SPECIFICATIONS

- Display : Dot matrix LCD (240x128 dots), Display Size : 53mm(H)x92mm(W)
- Frequency bandwidth : DC to 200kHz
- Max. Sampling Rate : 2MS/sec.
- Number of Channels : 2 channels
- Acquisition Memory : 4096 points
- Oscilloscope Function : Graphic waveform display for voltage measurement
- Internal Power Supply : 1.5V LR6 or R6P batteries 4 pcs.  
(NiMH rechargeable battery usable)
- External Power Supply : USB mini-B connector (DC5V)
- CE Mark : EN61010-1 CAT II 300V class 2, EN61326-1
- Dimensions : 162mm(H)x167mm(W)x35mm(D)
- Weight : 570g (excluding batteries)
- Accessories : Holster (attached to the main unit), 100-57 Test Leads, 903 AC/DC Adapter (USB 5V output), 934 USB cable, 1035 Carrying Case, 1.5V R6P Batteries 4 pcs

### Graph mode

Voltage	V / Div	Accuracy	Max. Input
	200mV / 2V / 20V	±4dot	1000Vp-p
	500mV / 5V / 50V / 200V	±2dot	
	1V / 10V / 100V / 500V	±1dot	

### DMM mode

DC Voltage	Range	Accuracy	Resolution	Max. Input				
1000V DC	200.0mV	±1.0%rdg±8dgt	100μV	1000V DC				
	2.000V		1mV					
	20.00V		10mV					
	200.0V		100mV					
	1000V		1V					
		±1.0%rdg±5dgt	1V					
AC Voltage (AC V rms)	Range	Accuracy	Resolution	Max. Input				
					2.000V	±2.0%rdg±8dgt (45Hz~1kHz) ±2.5%rdg±8dgt (1kHz~10kHz)	1mV	600V AC (rms)
					20.00V	±4.0%rdg±8dgt (10kHz~20kHz) ±6.0%rdg±8dgt (20kHz~30kHz)	10mV	
					200.0V	±2.0%rdg±8dgt (45Hz~1kHz) ±2.5%rdg±8dgt (1kHz~10kHz)	100mV	
					600V	±4.0%rdg±8dgt (10kHz~20kHz) ±2.0%rdg±5dgt (45Hz~1kHz) ±2.5%rdg±5dgt (1kHz~10kHz)	1V	
		※Crest factor 1.5 or less						
Resistance	Range	Accuracy	Resolution	Open Circuit Voltage				
					2.000kΩ	±1.0%rdg±8dgt	1Ω	≤3.3V
					20.00kΩ		10Ω	
Other	Continuity Test, Frequency, Pulse Width, Temperature							

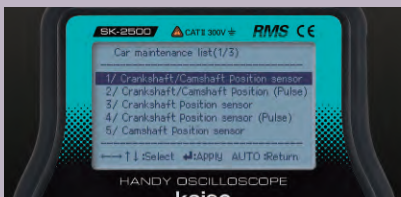
### OPTIONAL ACCESSORIES

- 660 AC/DC Clamp Adapter
- 100-57R Red Test Lead
- 100-72 Oscilloscope Test Lead Set
- 100-74 Ripple Voltage Test Lead
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 653 RPM Sensor (for Direct Ignition)
- 650 RPM Sensor (for High Tension Cord)
- 940 Alligator Clips
- 793 Coil-Type Contact Pin
- 944 Test Pin
- 946 Battery Clip
- 818-02 Temperature Probe
- 819 Temperature Probe

### Advantages of SK-2500

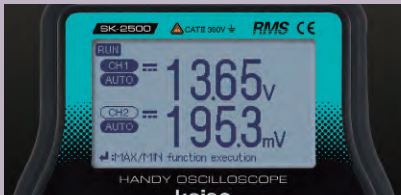
#### Car Maintenance List - The Auto Set Function for Car Sensors and Signals

The most complicated thing to get the observable waveform with oscilloscope is the settings of voltage axis, time axis, and trigger. SK-2500 makes it easier by providing "Car Maintenance List". Just choosing the sensor or signal to be measured, the instrument automatically adjusts the waveform and shows it on the screen.



#### Digital Multimeter Function in DMM Mode

AC/DC Voltages, Resistance, Continuity, Frequency, Pulse Width, Duty Cycle, and Temperature measurements.



#### Auto Axes Adjustment

Auto Adjustment for voltage and time axes.

#### 2ch Waveform Display

#### Rubber Holster for Shock Protection and Improved Ruggedness

Standard oscilloscopes tend to be slippery due to its plastic chassis, and careful handling is required. SK-2500 added rugged solution for hand-held oscilloscope with slip-proof rubber holster. This also offers stable placing even in the engine compartment.



#### Backlight LCD

Easy reading even in dark environment.

#### Screen Capturing Saved as Image Data

Screen capturing saved as PNG format is available just pressing CAPTURE Key. Captured data can be recalled from the menu list to view on the screen or to move to the PC. You can see the colored image data on PC screen.

#### Data Logger Function and Data Processing on PC

You can record the measuring data with Data Logger function and can send it to PC for using in spreadsheet software like making graphs. SK-2500 can store up to 99 CSV and PNG data.

#### Temperature Measurement (with optional temperature probe)

#### Easy-to-Use Hand-Held Oscilloscope Without Special Accessories

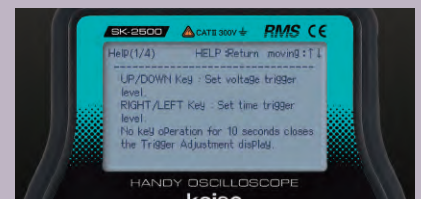
SK-2500 can use as your daily tool, with oscilloscope, digital multimeter, and data logger in one single hand-held unit. Test probes and accessories are common with our other test & measurement products for enhanced usability. Usable : 100-41 Test Lead Kit, 100-62 Test Lead Set

#### Large-Sized Luminous Key Switches with Simple Operation

Feeling difficulties in complicated key operation for using oscilloscope? Key switches of SK-2500 offers intuitive operation with illumination function, pictorial indications, and guide icons on the screen.

#### Help Function to Support Your Measurement

Press HELP Key when you have questions in the operation. Help lists with useful hints or tips are displayed on the screen.



#### AC/DC Adapter Powering

USB 5V output AC/DC adapter for continuous measurement. \*standard accessory

Measurement Example

Waveform observation of cam and crank sensors in graph mode

※See maintenance manual when making the measurement.

- ① Insert the Input Plugs of Test Lead to Input Terminals. Turn on the instrument.
- ② Contact the Test Pins to the terminal to be measured. The below picture is getting the signal input from wire harness connector using 100-41 Test Lead Kit.
- ③ Choose the item from Car Maintenance List. Auto set works for voltage / time axes, trigger, and waveform position to display camshaft position sensor waveform in CH1.
- ④ Adjust voltage axis and waveform position to make space for CH2 waveform.
- ⑤ Press CH2 Key. Crankshaft position sensor waveform is displayed on the screen. Adjust the voltage axis to be the same as CH1 and adjust the waveform position.



Battery voltage measurement in DMM mode

- ① Insert the Input Plugs of Test Lead to Input Terminals. Turn on the instrument.
- ② Press TEST MODE Key to go to DC Voltage measurement in DMM mode.
- ③ Contact the test pins to battery terminals (red pin to plus terminal, and black pin to minus terminal).



- ④ Read the measurement result on the screen.
  - ⑤ Start the engine to let the alternator power generated. Check the measurement value on the LCD that should be increasing. Measuring this voltage is effective to check the generating condition of the alternator.
- ※For charge control vehicles, alternator might not generate the power.

2ch test for battery voltage and alternator current

※Optional 660 AC/DC Clamp Adapter is required.

- ① Insert test lead plug to CH1 input terminal, and insert clamp adaptor plug to CH2 input terminal.
  - ② Turn on the instrument (SK-2500).
- ※For DMM mode, enter DC voltage measurement mode by pressing Test Mode key.
- ③ Contact test pins to the battery terminals. Red to plus, black to minus.
- ※940 alligator clip is used in the picture below.



- ④ Select 40A range with the clamp adapter.
- ⑤ Clamp-on the B-terminal of the alternator.



- ⑥ For graph mode, adjust voltage / time axes. Set trigger hold at 10V to stop the waveform as voltage drop at engine cranking. (set trigger slope as falling edge trigger.)
- ⑦ Start the engine.
- ⑧ Move and adjust the waveform to be more visible.
- ⑨ Check the result on the LCD.

Graph mode



DMM mode



Optional Accessories

100-72

Oscilloscope Test Lead Set **NEW**

Narrow test pins that can insert wire harness. Included 2 sets of red test leads / test pins allows 2-channels measurement. Use black alligator clip for grounding.



100-74

Ripple Voltage Test Lead **NEW**

Can view the Ripple Voltage waveform of the alternator by removing DC elements from the measuring voltage.



## Handy mΩ Tester

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



### 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		170 μW	
	40Ω		10mΩ	170 μW		
	400Ω		100mΩ	420 μW		
	4kΩ		±0.3%rdg±2dgt	1Ω	20 μA	
	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.



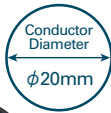
⑦ Read the resistance on LCD.





## 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  $0 \pm 1$  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 $\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
	40A	0A to 100A
	200A	101A to 200A $\pm 3.0\% \text{rdg} \pm 5 \text{dgt}$
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 :  $\phi 20 \text{mm}$  Max.  
 Power Supply : 1.5V R6P or AA Batteries (x2)  
 CE Mark : CAT III 300V and EMC  
 Dimensions : 203(H) x 61(W) x 30(D) mm  
 Weight : 230g  
 Accessories : 1011 Carrying Case (x1)  
 1.5V R6P Batteries (x2)



#### Advantages of SK-7830

##### For Car Maintenance

Wide range of DC current measurement is possible from 4000mA to 200A range.

DC 4000mA DC 40A/200A

##### Power-On Initialize

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

##### Newly-Developed External-Noise-Preventable Core Mechanism

Shielded clamp core prevents external noise or effect of external magnetic field.

##### Stable Reading

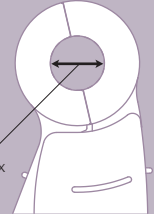
Even in low current measurement, SK-7830's LCD reading is always stable.

Generally, low current measurement value is hard to read due to its instability. SK-7830 solved this problem by its own internal processing system to minimize reading-instability.

##### Small-Sized Clamp Head

SK-7830's small clamp head ensures easy clamping even for narrow conductors such as the cables around car engine.

$\phi 20 \text{mm}$  Max

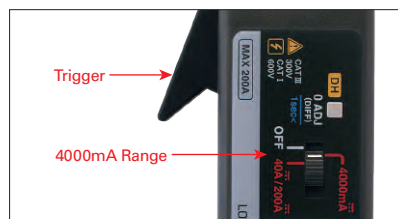


### Car Measurement with SK-7830

#### 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 Set the switch to 4000mA range without touching the trigger lever, not to open the clamp jaws.



- ③ Clamp-on a minus cable of car battery.

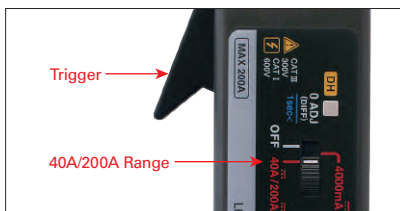


- ④ Read the measurement value. If it is higher than the specified value, check ① once again.

#### 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 Set the switch to 40A/200A range without touching the trigger lever, not to open the clamp jaws.



- ② Clamp B-terminal cable from car alternator.
- ③ Start the engine.
- ④ Read the measurement value on LCD.

※ Alternator is judged normal if LCD shows 20A to 40A after the engine started, then slowly turn down. If the current remain unchanged or high current remain displayed, the alternator might be damaged.



## AC / DC Digital Clamp Meters

Handy-size Clamps with Efficient Functions

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester

Digital Multimeters

Analog Multitesters

Other Testers

Accessories



AC/DC 400A
AC/DC V
Ω
Hz
))
→
DUTY %
↔
MAX MIN
DIFF
AUTO ZERO
DISP HOLD
APO

for DC Current measurement

### 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

940 Alligator Clips      944 Test Pin  
948 Alligator Clips      946 Battery Clip  
793 Coil-Type Contact Pin

Symbol	Function	Range		Accuracy
		Range	Accuracy	
$\bar{A} / \bar{A}$ Hz	DC Current	40A	$\pm 1.5\%rdg \pm 3dgt$	
		400A	$\pm 1.5\%rdg \pm 5dgt$	
	AC Current*	40A	$\pm 1.5\%rdg \pm 5dgt$	
		400A	$\pm 2.0\%rdg \pm 3dgt$ (50/60Hz) $\pm 4.0\%rdg \pm 3dgt$ (50/60Hz)	
$\bar{V} / \bar{V}$ Hz / %	DC Voltage	400mV	$\pm 0.2\%rdg \pm 2dgt$	
		4V	$\pm 1.0\%rdg \pm 3dgt$	
	AC Voltage	40V	$\pm 1.0\%rdg \pm 2dgt$	
		400V	$\pm 1.5\%rdg \pm 5dgt$ (40 to 400Hz)	
Resistance	Frequency	5Hz to 1kHz	$\pm 0.2\%rdg \pm 2dgt$	
	Duty Cycle	5% to 95%	$\pm 1.0\%rdg \pm 3dgt$	
	400Ω	$\pm 1.5\%rdg \pm 5dgt$		
	4kΩ	$\pm 0.7\%rdg \pm 3dgt$		
Continuity Test	40kΩ	$\pm 1.2\%rdg \pm 5dgt$		
	400kΩ	$\pm 3.0\%rdg \pm 5dgt$		
	4MΩ	$\pm 1.5\%rdg \pm 5dgt$		
	40MΩ	$\pm 5.0\%rdg \pm 5dgt$		
Diode Test	400Ω	$\pm 1.5\%rdg \pm 5dgt$		
	Buzzer Sound	Approx. 50Ω or less		
Capacitance	0 to 15V	$\pm 5.0\%rdg \pm 5dgt$		
	Open Circuit Voltage	$\leq 1.7V$		
Functions	Capacitance	50 / 500nF / 5 / 50 / 100 μF ( $\pm 5.0\%rdg \pm 10dgt$ )		
	MAX / MIN 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%

#### Car Measurement with SK-7661

##### Alternator charging current

Clamp-on the B-terminal of the alternator.



##### Battery voltage

Contact test lead pins to the battery. Black to minus, red to plus.



##### Others

Water temperature sensor      Capacitor check  
Continuity test                      Generating voltage check  
Diode test                              Resistance check

Focused on High-Flexibility



AC/DC 400A
AC/DC V
Hz
DUTY %
for Voltage measurement

PEAK HOLD
MAX MIN
DIFF
AUTO ZERO
DISP HOLD
APO
TRUE RMS

for DC Current measurement

### SK-7682 TRUE RMS

#### 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)

Symbol	Function	Range		Accuracy
		Range	Accuracy	
$\bar{A} / \bar{A}$ Hz	DC Current	40A	$\pm 1.5\%rdg \pm 3dgt$	
		400A	$\pm 2.0\%rdg \pm 3dgt$	
	AC Current	40A	$\pm 1.5\%rdg \pm 5dgt$	
		400A	$\pm 2.0\%rdg \pm 5dgt$ (50/60Hz) $\pm 4.0\%rdg \pm 5dgt$ (50/60Hz)	
$\bar{V} / \bar{V}$ Hz / %	DC Voltage	400mV	$\pm 0.2\%rdg \pm 2dgt$	
		4V	$\pm 1.0\%rdg \pm 3dgt$	
	AC Voltage	40V	$\pm 1.0\%rdg \pm 2dgt$	
		400V	$\pm 1.5\%rdg \pm 5dgt$	
Resistance	Frequency	1Hz to 49.99kHz	$\pm 0.2\%rdg \pm 2dgt$	
	Duty Cycle	0% to 99.9%	$\pm 0.5\%rdg \pm 5dgt$	
	400Ω	$\pm 1.5\%rdg \pm 5dgt$		
	4kΩ	$\pm 0.7\%rdg \pm 3dgt$		
Diode Test	40kΩ	$\pm 1.2\%rdg \pm 5dgt$		
	400kΩ	$\pm 3.0\%rdg \pm 5dgt$		
Capacitance	4MΩ	$\pm 1.5\%rdg \pm 5dgt$		
	40MΩ	$\pm 5.0\%rdg \pm 5dgt$		
Functions	Continuity Test	400Ω	$\pm 1.5\%rdg \pm 5dgt$	
	MAX / MIN, Peak Hold, Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power Off			

#### Car Measurement with SK-7682

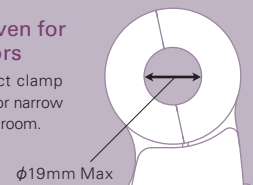
##### Easy-to-grip handheld clamp

Easy-to-grip size with 196mm length and 180g weight. Can be used like an industrial tool.



##### Easy clamping even for narrow conductors

Easy-to-clamp compact clamp jaws at  $\phi$  19mm even for narrow conductors in car engine room.



Versatile Clamp Meter, Compactly Designed



**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**

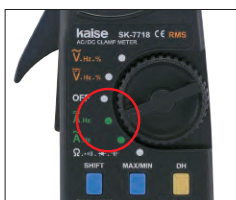
- 100-41 Test Lead Kit 793 Coil-Type Contact Pin
- 100-62 Test Lead Set 944 Test Pin
- 940 Alligator Clips 946 Battery Clip
- 948 Alligator Clips

		Range	Accuracy
AC / DC ~ / 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 $\pm 3.0\%rdg \pm 3dgt$
Frequency		1Hz to 1kHz	$\pm 0.2\%rdg \pm 2dgt$
AC / DC ~ / V Hz · %	AC Voltage	4V	$\pm 1.0\%rdg \pm 5dgt$ (40Hz to 400Hz)
		40V	
		400V	
	DC Voltage	400mV	$\pm 1.0\%rdg \pm 3dgt$
		4V	
		40V	
Frequency	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 $\Omega$	$\pm 1.0\%rdg \pm 3dgt$	
	40k $\Omega$		
	400k $\Omega$		
	4M $\Omega$	$\pm 4.0\%rdg \pm 5dgt$	
	40M $\Omega$	$\pm 6.0\%rdg \pm 5dgt$	
Continuity Test	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	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		



**Starter current measurement**

- ① Set the selector switch to DC-A range.
- ② Press and hold Peak key to enter Peak Hold mode.
- ③ Clamp-on the minus cable of the car battery.
- ④ Start the car engine.
- ⑤ Read the measurement value on LCD.



**Advantages of SK-7718**

**Suitable for the various electric components tests**

**Battery Voltage Measurement**



**Starter Current Measurement**



**Alternator Charging Current Measurement**



Other application : Water temperature sensor test, Continuity test, Diode test, Noise-prevention capacitor check, Resistance check

**MAX 1000A Measurement**

Up to 1000A measurement for DC/AC current. Applicable for high displacement vehicles.

**Peak Hold**

For starter current measurement. Can display the peak current in the certain period of time.

**Auto Power Off**

The unit turns off automatically after 12 minutes of last operation. Effective to conserve the battery life (cancelable).

**Difference**

Display the relative value during the measurement.

**Display Hold**

Can freeze the readings on LCD. Useful for reading the unstable measurement values.

**MAX/MIN**

Display the maximum and minimum values during the measurement.

**Dust & Drip Proof**

Can protect the unit from dust and water-drip affects.

2 Channel Measurements on Dual Display LCD and Oscilloscope Connection

AC/DC 1000A V Ω Hz DUTY %  
 PULSE WIDTH °C PEAK HOLD MAX MIN DIFF DISP HOLD  
 OUT PUT TRUE RMS Dust Proof Simple Water Resistant  
 SK-7722

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

- 818-02 Temperature Probe
- 817-03 to 817-25 Temperature Probes
- 922 DC Adapter Cable (SK-7722)
- 930 Output Cord for Recorder (SK-7722)
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 940 Alligator Clips
- 948 Alligator Clips
- 793 Coil-Type Contact Pin
- 944 Test Pin
- 946 Battery Clip

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		
		Range	Accuracy	Range	Accuracy	
$\bar{A} + \bar{V}$	DC Current	400A / 1000A	400.0A 400 to 600A 601 to 1000A	$\pm 1.5\%rdg \pm 3dgt$ $\pm 1.5\%rdg \pm 1dgt$ $\pm 3.0\%rdg \pm 3dgt$		
		DC Voltage	400V 650V	$\pm 1.0\%rdg \pm 3dgt$ $\pm 1.0\%rdg \pm 1dgt$	40V 250V	$\pm 1.0\%rdg \pm 3dgt$ $\pm 1.0\%rdg \pm 1dgt$
			AC Current	400A / 1000A	400.0A 400 to 600A 601 to 1000A	$\pm 0.5\%rdg \pm 1dgt$ $\pm 1.5\%rdg \pm 1dgt$ $\pm 3.0\%rdg \pm 3dgt$
$\bar{A} + Hz$	Frequency	10.0Hz to 4000Hz	$\pm 0.5\%rdg \pm 1dgt$		$\pm 2.5\%rdg \pm 3dgt$	
		Duty Cycle	0.0% to 99.9%	$\pm 3.0\%rdg \pm 3dgt$		$\pm 2.5\%rdg \pm 1dgt$
		Pulse Width	1.0mS to 999.9mS	$\pm 0.5\%rdg \pm 3dgt$		$\pm 4.0\%rdg \pm 3dgt$
$\bar{V} + Hz$	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	10.0Hz to 4000Hz	$\pm 0.5\%rdg \pm 1dgt$		
		Duty Cycle	0.0% to 99.9%	$\pm 3.0\%rdg \pm 3dgt$		
Resistance	Resistance	4000Ω	$\pm 1.0\%rdg \pm 3dgt$			
		20kΩ	$\pm 1.0\%rdg \pm 1dgt$			
		Temperature	-30°C to 150°C	$\pm 1.0\%rdg \pm 3dgt$		
Functions	Functions	Peak Hold, MAX / MIN, Difference, Display Hold, Output Terminal (SK-7722)				

Advantages of SK-7720 / 7722

Two different elements can be measured at once and read on a bigger Dual Display LCD

Alternator measurement :  
Charging current and generating voltage



Starter current and battery voltage measurements



Temperature check of air conditioner outlet  
※818-02 temperature probe (option) required.



Alternator Test - Charging Current & Generating Voltage

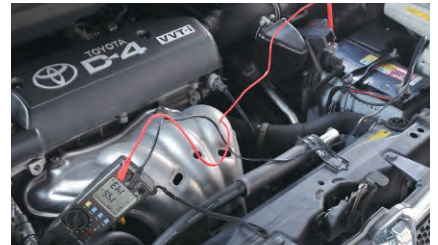
① Insert test lead plugs to the input terminals.



③ Contact test lead pins to the battery. Black to minus, red to plus.



⑤ Start the engine, and clamp-on the B-terminal of the alternator.



② Set the selector switch to DCA + DCV range.



④ LCD shows the battery voltage when stopping the engine.



⑥ Run up the engine around 2000 rpm. Load the maximum electricity by turning on the electric components, such as headlights.



※For charge control vehicles, alternator might not generate the power.



### 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
- 817-03 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



Function	Range	Resolution	Accuracy	Input Impedance
DC Voltage	60mV	0.01mV	±0.4%rdg±3dgt	≈10MΩ, 50pF
	600mV	0.1mV	±0.3%rdg±3dgt	
	6V	1mV	±0.4%rdg±3dgt	
	60V	10mV	±0.4%rdg±3dgt	
	600V	100mV	±0.4%rdg±3dgt	
	1000V	1V	±0.7%rdg±3dgt	
AC Voltage	60mV	0.01mV	±2.0%rdg±5dgt (50Hz to 500Hz)	≈10MΩ, 50pF
	6V	1mV	±2.0%rdg±5dgt (50Hz to 500Hz)	
	60V	10mV	±2.0%rdg±5dgt (50Hz to 500Hz)	
	600V	100mV	±2.2%rdg±5dgt (50Hz to 500Hz)	
DC Current	600 μA	0.1 μA	±0.7%rdg±3dgt	0.25mV/μA
	6000 μA	1 μA	±0.5%rdg±3dgt	2.5mV/mA
	60mA	0.01mA	±0.7%rdg±3dgt	
	600mA	0.1mA	±0.5%rdg±3dgt	0.03V/A
	6A	1mA	±0.7%rdg±3dgt	
	10A	10mA	±0.5%rdg±3dgt	
AC Current	600 μA	0.1 μA	±2.2%rdg±5dgt	0.25mV/μA
	6000 μA	1 μA	±2.0%rdg±5dgt	2.5mV/mA
	60mA	0.01mA	±2.2%rdg±5dgt	
	600mA	0.1mA	±2.0%rdg±5dgt	0.03V/A
Resistance	600Ω	0.1Ω	±0.5%rdg±6dgt	0.45V DC
	6kΩ	1Ω	±0.5%rdg±3dgt	
	60kΩ	10Ω	±0.5%rdg±3dgt	
	600kΩ	100Ω	±0.8%rdg±4dgt	
	6MΩ	1kΩ	±1.0%rdg±5dgt	
	60MΩ	10kΩ	±1.5%rdg±5dgt	
Frequency	6V	10Hz to 10kHz	±0.1%rdg±3dgt	0.5V rms 5V rms 50V rms 500V rms
	60V	10Hz to 50kHz		
	600V	10Hz to 50kHz		
	1000V	45Hz to 1kHz		
IP-RPM	RPM4	240 to 20000RPM	±0.2%rdg±20dgt	
	RPM2	120 to 10000RPM		
	RPM2-M	60 to 5000RPM		
	RPM4	60 to 20000RPM		
IG-RPM	RPM2	30 to 10000RPM	±0.2%rdg±20dgt	
	RPM2-M	15 to 5000RPM		
	RPM2	30 to 10000RPM		
	RPM2-M	15 to 5000RPM		
Dwell Angle	0° to 360°	Accuracy	±1.2°/krpm±1dgt	Selectable Number of Cylinders
	Duty Cycle	0% to 100%	±0.04%/krpm/cyl±2dgt	1,2,3,4,5,6,8,10,12
Fuel Injection Pulse Width	Range	Accuracy	±0.05ms±1dgt	
	Duty Cycle	0% to 100%	±0.04%/krpm±2dgt	
Diode Test	Range	Accuracy	±1.0%rdg±3dgt	Test Current
	Open Circuit Voltage	< 1.6V DC		0.50mA
Temperature	Range	Resolution	Accuracy	
	-50°C to 1000°C	1°C	±0.5%rdg±3dgt	
	-58°F to 1832°F	1°F	±0.5%rdg±6dgt	
Continuity Test	Buzzer Sound	Approx. 10 to 200Ω or less		
	Range	Resolution	Accuracy	
Capacitance	6.000 μF	0.001 μF	±2.0%rdg±5dgt	
	60.00 μF	0.01 μF	±3.5%rdg±5dgt	
	600.0 μF	0.1 μF	±3.5%rdg±5dgt	
	2000 μF	1 μF	±4.0%rdg±5dgt	
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.

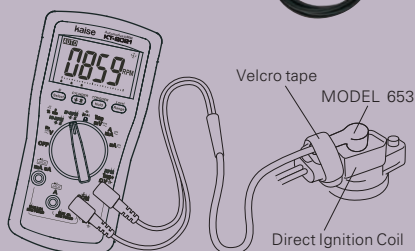


- Range : DC/AC 40A/400A
- Output : DC/AC 100mA/mV(40A Range)  
DC/AC 1A/mV(400A Range)
- Accuracy : ±1.5% to 7.0%rdg±0.5mV
- Power Supply : 1.5V R6P or AA Batteries (x2)
- Conductor Diameter : φ19mm Max.
- CE Mark : CAT II 300V, CAT I 600V, class 2 and EMC
- Dimensions : 180(H) x 43(W) x 31(D)mm
- Weight : 210g
- Cable length : 145cm

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

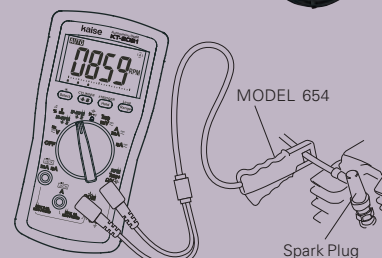
For engine speed measurement of direct ignition engine that is equipped for the most of gas-powered car recently.

Velcro tape to fix the sensor



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

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



Motorcycle Multimeter



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



Digital Multimeters (Probe Tester)

Improved probe tester with enhanced functions



SK-6597

FEATURES

- Current measurement up to AC / DC 400mA.
- Penlight and backlight LCD.

SPECIFICATIONS

Display : 4000 count LCD  
 Sampling Rate : 3 times / sec.  
 Range Selection : Auto 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)

OPTIONAL ACCESSORIES

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

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	±0.5%rdg±3dgt	≥100MΩ
	4V	1mV		≈11MΩ
	40V	10mV		
	400V	100mV		
	600V	1V		≈10MΩ
AC Voltage	4V	1mV	±1.5%rdg±5dgt	≈11MΩ
	40V	10mV		
	400V	100mV		
	400V	100mV		
	600V	1V		≈10MΩ
Frequency	1Hz to 100kHz	0.001 to 100Hz	±0.2%rdg±2dgt	
Duty Cycle	0.0% to 99.9%	0.1%	±0.5%rdg±5dgt	
DC Current	Range	Resolution	Accuracy	Burden Voltage
	40mA 400mA	10μA	±1.0%rdg±2dgt	<0.1V <0.6V
AC Current	Range	Resolution	Accuracy	Burden Voltage
	40mA 400mA	10μA	±1.5%rdg±7dgt	<0.1V <0.6V
Frequency	10Hz to 100kHz	0.01 to 100Hz	±0.2%rdg±2dgt	
Resistance	Range	Resolution	Accuracy	Test Current
	400Ω	0.1Ω	±1.5%rdg±4dgt	≤0.2mA
	4kΩ	1Ω		≤50μA
	40kΩ	10Ω	±1.0%rdg±3dgt	≤5μA
	400kΩ	100Ω		≤0.5μA
	4MΩ	1kΩ	±5.0%rdg±3dgt	≤50nA
40MΩ	10kΩ	±7.0%rdg±3dgt		
Open Circuit Voltage : ≈0.44V				
Continuity Test	400Ω (Buzzer Sound : Approx. 50Ω or less)			
Diode Test	Range	Resolution	Test Current	
	1V	1mV	±5.0%rdg±3dgt ≤0.7mA	
Open Circuit Voltage : ≤1.7V				
Capacitance	50 / 500nF / 5 / 50 / 100μF ±5.0%rdg±10dgt			
Functions	MAX / MIN, Display Hold, Difference, Auto Power Off, Penlight and Backlight			



Advantages of SK-6597

Easy-to-use pen-type tester

Easily to be tested in car engine room.



Penlight and backlight LCD

Brightly illuminate test points and display even in the dark place.



Clear buzzer sound

Easy-to-hear buzzer sound even in noisy conditions.

Replaceable Test Pin and Test Lead

Easy replacement without any tools.

- Screw-in type Test Pin
- Plug-in type Test Lead



Current measurement

Can measure up to 400mA AC/DC.

Easy-to-read large LCD

(compared to the existing model)

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                      944 Test Pin  
 948 Alligator Clips                      946 Battery Clip  
 792R Red Straight Test Pin            793 Coil-Type Contact Pin

	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	400mV	100 μV	±0.5%rdg±3dgt	≥100MΩ	
	4.0V	1mV		≈11MΩ	
	40V	10mV		≈10MΩ	
AC Voltage	400V/600V	100mV/1V	±1.0%rdg±3dgt	≈10MΩ	
	4.0V	1mV		≈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	400Ω	0.1Ω	±1.5%rdg±4dgt	Test Current	
	4.0kΩ	1Ω		≤0.2mA	
	40kΩ	10Ω		≤50 μA	
	400kΩ	100Ω		≤5 μA	
	4.0MΩ	1kΩ		±5.0%rdg±3dgt	≤0.5 μA
	40MΩ	10kΩ		±7.0%rdg±3dgt	≤50nA
Open Circuit Voltage : ≈0.44V					
Continuity Test	400Ω (Buzzer Sound : Approx. 60Ω or less)				
Diode Test	1V	±5.0%rdg±3dgt		≤0.7mA	
Open Circuit Voltage : ≤1.7V					
Capacitance	50 / 500nF / 5 / 50 / 100 μF (±5.0%rdg±10dgt)				
Functions	MAX / MIN, Difference, Display Hold, Auto Power Off				

Digital Insulation Tester

For Hybrid and Electric vehicles maintenances



SK-3502

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 : CAT IV 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

	Rated Test Voltage (DC)	125V	250V	500V	1000V
Insulation Resistance	Max. Effective Reading	200MΩ		2000MΩ	
	Center Reading	5MΩ		50MΩ	
	1st effective range	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	
Low Resistance	Accuracy	±5%rdg±5dgt		±5%rdg±5dgt	
	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	
AC / DC Voltage	Open Circuit Voltage	6V or more			
	Range	DCV / ACV fixed (0V to 600V)		AUTO (10V to 600V)	
	Accuracy	±3%rdg±5dgt		±3%rdg±5dgt	
Functions	Input Resistance	Approx. 660kΩ			
	Comparator, Data memory, Timer, Live wire warning, Safety lock, High voltage warning, Automatic discharge, Zero-ohm adjustment, Backlight, Display hold, Auto power save				

Car Measurement with SK-3502

Insulation Resistance Test for Hybrid Vehicle

Why measuring this?

Checking insulated condition of motor or cable is essential for hybrid vehicles to prevent electric shock accident caused by leakage of high-voltage circuit.

- ① Insert test leads and alligator clips to the input terminals.
- ② Set function switch to 500V.



- ③ Detach service plug.
- ④ Remove inverter cover, and detach motor cable and generator cable from the inverter.



- ⑤ Clip the metal part of the vehicle with the black alligator clip to get the grounding.



- ⑥ Press Measure key with contacting the test pin on the terminal.



- ⑦ Read the measurement value on LCD.

## Digital Tachometer

Focusing on Easy of Use Digital Tachometer

RPM DISP HOLD APO

### 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	±0.2%rdg±10rpm	10000 rpm
Functions	Display Hold, Auto Power Off			

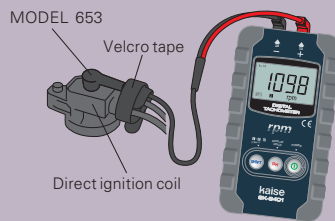


#### Quick and Easy Measurement

##### Measurement of Direct Ignition Engine

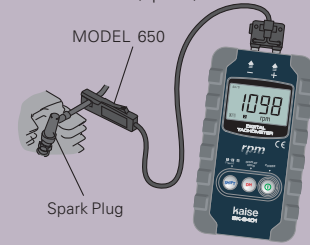
Use 653 RPM Sensor (provided)

Sensor head is fixable by using velcro tape attached.



##### Measurement of High Tension Code Type Engine

Use 650 RPM Sensor (option)



## O2 Sensor Checker

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

DC DISP HOLD APO

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

#### FEATURES

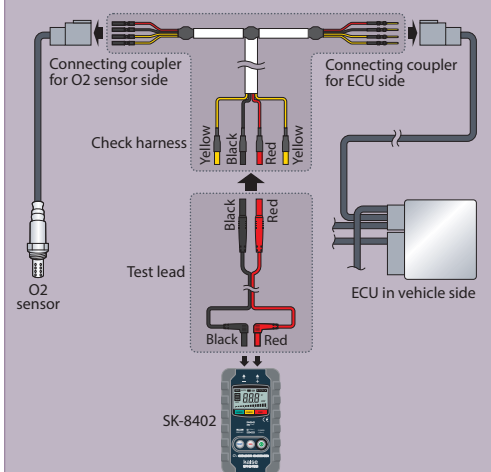
- Deterioration level of O<sub>2</sub> sensor can be checked easily by bar-graph
- Rich, Lean, Average voltages and Cycle are displayed respectively.
- Simulated sensor signal output is available.

SK-8402 is the O<sub>2</sub> Sensor Checker for the O<sub>2</sub> sensor of Zirconia, Titania 1V/5V. SK-8402 can not check deterioration judgment of A/F (air-fuel ratio) Sensor or Rear O<sub>2</sub> 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)

#### Connection image



#### Bar-Graph Display

Deterioration level of O<sub>2</sub> sensor can be checked easily by bar-graph.



**GOOD**  
(No problem)






**CHECK**  
(replacement recommended)

**BAD**  
(replacement required)

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



## Clamp Meters Index

	AC / DC Digital Clamp Meters				
					
Model	SK-7660	SK-7661	SK-7682	SK-7718	SK-7719
Display Counts	4000	4000	4000	4000	4000
Conductor Diameter	φ 27mm	φ 27mm	φ 19mm	φ 35mm	φ 35mm
DC Current	40A	40A	40A	400A	400A
	400A	400A	400A	1000A	1000A
	—	—	—	—	—
AC Current	40A	40A	40A	400A	400A
	400A	400A	400A	1000A	1000A
	—	—	—	—	—
	—	—	—	—	—
DC Voltage	400mV	400mV	400mV	400mV	400mV
	4V	4V	4V	4V	4V
	40V	40V	40V	40V	40V
	400V	400V	400V	400V	400V
	600V	600V	600V	600V	600V
AC Voltage	4V	4V	4V	4V	4V
	40V	40V	40V	40V	40V
	400V	400V	400V	400V	400V
	600V	600V	600V	600V	600V
Resistance	400Ω	400Ω	—	400Ω	400Ω
	4kΩ	4kΩ	—	4kΩ	4kΩ
	40kΩ	40kΩ	—	40kΩ	40kΩ
	400kΩ	400kΩ	—	400kΩ	400kΩ
	4MΩ	4MΩ	—	4MΩ	4MΩ
	40MΩ	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	●*1
Comparator	—	—	—	—	—
Low Pass Filter	—	—	—	—	—
Output Terminal	—	—	—	—	—
External Power Supply	—	—	—	—	—
Dust Proof & Simple Water Resistant	—	—	—	●	●
Auto Power Save (Off)	●	●	●	●	●

\*1 : for DC Current measurement

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester






Digital Multimeters

Analog Multimeters

Other Testers






Accessories

## 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-7603</b>	<b>SK-7615</b>	<b>SK-7625</b>	<b>SK-7820</b>	<b>SK-7825</b>
<b>Display Counts</b>	4000	2000	2000	4000	4000
<b>Conductor Diameter</b>	φ 27mm	φ 26mm	φ 42mm	φ 24mm	φ 40mm
<b>DC Current</b>	—	—	—	—	—
<b>AC Current</b>	40A 400A — —	2A 20A 200A 400A	2A 20A 200A 600A	40mA 400mA 40A 100A	40mA 400mA 40A 100A
<b>DC Voltage</b>	400mV 4V 40V 400V 600V	200mV 2V 20V 200V 600V	200mV 2V 20V 200V 600V	— — — — —	— — — — —
<b>AC Voltage</b>	4V 40V 400V 600V	2V 20V 200V 600V	2V 20V 200V 600V	400V 600V — —	400V 600V — —
<b>Resistance</b>	400Ω 4kΩ 40kΩ 400kΩ 4MΩ 40MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 20MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 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

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester

Digital Multimeters

Analog Multimeters

Other Testers

Accessories

Handy-size Clamps with Efficient Functions

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester

Digital Multimeters

Analog Multitesters

Other Testers

Accessories



AC/DC 400A AC/DC V Ω Hz ( )) (→) DUTY % (⇌)

PEAK HOLD MAX MIN DIFF AUTO ZERO DISP HOLD APO TRUE RMS

SK-7660 SK-7661 for DC Current measurement SK-7660

SK-7660 TRUE RMS / 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

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

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

\*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

Analog Multitesters



AC/DC 400A AC/DC V Hz DUTY % for Voltage measurement

PEAK HOLD MAX MIN DIFF AUTO ZERO DISP HOLD APO TRUE RMS

for DC Current measurement

SK-7682 TRUE RMS

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

Versatile Clamp Meter, Compactly Designed



AC/DC 1000A AC/DC V Ω Hz ( )) → DUTY % ←

PEAK HOLD MAX MIN DIFF AUTO ZERO RING HOLD DISP HOLD APO TRUE RMS Dust Proof Simple Water Resistant

SK-7718 for DC Current measurement SK-7719 SK-7718

**SK-7718 TRUE RMS / SK-7719**

**FEATURES**

- AC / DC 1000A Measurements
- "Power-On Initialize" (auto zero adjustment) for DCA.
- MAX / MIN, Difference, Peak Hold (SK-7718), and Range Hold (SK-7719)
- 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**

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

		Range	Accuracy
$\bar{A} / \bar{A}$ 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 $\pm 3.0\%rdg \pm 3dgt$
Frequency		1Hz to 1kHz	$\pm 0.2\%rdg \pm 2dgt$
$\bar{V} / \bar{V}$ Hz · %	AC Voltage	4V	$\pm 1.0\%rdg \pm 5dgt$ (40Hz to 400Hz)
		40V	
		400V	
	DC Voltage	400mV	$\pm 1.0\%rdg \pm 3dgt$
		4V	
		40V	
Frequency		1Hz to 49.99kHz	$\pm 0.2\%rdg \pm 2dgt$
Duty Cycle		10% to 90%	$\pm 2.0\%rdg \pm 2dgt$
Resistance	400Ω	$\pm 1.5\%rdg \pm 5dgt$	
	4kΩ	$\pm 1.0\%rdg \pm 3dgt$	
	40kΩ		
	400kΩ		
	4MΩ	$\pm 4.0\%rdg \pm 5dgt$	
	40MΩ	$\pm 6.0\%rdg \pm 5dgt$	
Continuity Test	400Ω (Buzzer Sound : Approx. 50Ω or less)		
Diode Test	0 to 1.5V $\pm 5.0\%rdg \pm 5dgt$		
Capacitance	Open Circuit Voltage : $\leq 1.7V$ 50 / 500nF / 5 / 50 / 100 μF ( $\pm 5.0\%rdg \pm 10dgt$ )		
Peak Hold (SK-7718), MAX / MIN, Difference, Power-on Initialize (for DC Current measurement), Range Hold (SK-7719), Display Hold, Auto Power OFF			

2 Channel Measurements on Dual Display LCD and Oscilloscope Connection



AC/DC 1000A AC/DC V Ω Hz DUTY % PULSE WIDTH °C

PEAK HOLD MAX MIN DIFF DISP HOLD OUT PUT TRUE RMS Dust Proof Simple Water Resistant

SK-7722

**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**

- 818-02 Temperature Probe 100-62 Test Lead Set
- 817-03 to 817-25 Temperature Probes 940 Alligator Clips
- 922 DC Adapter Cable (SK-7722) 948 Alligator Clips
- 930 Output Cord for Recorder 793 Coil-Type Contact Pin
- 100-41 Test Lead Kit
- 1007 Carrying Case (x 1), 9V 6F22 Battery (x 1)

**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

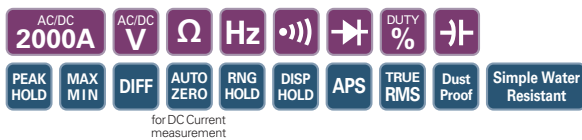
Accessories : 100-57 Test Leads (x 1 set)

		SK-7720		SK-7722	
$\bar{A} + \bar{V}$	DC Current	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
$\bar{A} + Hz$	AC Current	400V	$\pm 1.0\%rdg \pm 3dgt$	40V	$\pm 1.0\%rdg \pm 3dgt$
		650V	$\pm 1.0\%rdg \pm 1dgt$	250V	$\pm 1.0\%rdg \pm 1dgt$
		400A / 1000A	400.0A $\pm 1.5\%rdg \pm 3dgt$ (50Hz to 60Hz) 400 to 600A $\pm 1.5\%rdg \pm 1dgt$ 601 to 1000A $\pm 3.0\%rdg \pm 3dgt$	40Hz to 400Hz	$\pm 2.5\%rdg \pm 3dgt$ $\pm 2.5\%rdg \pm 1dgt$ $\pm 4.0\%rdg \pm 3dgt$
	Frequency	10.0Hz to 4000Hz	$\pm 0.5\%rdg \pm 1dgt$		
	Duty Cycle	0.0% to 99.9%	$\pm 3.0\%rdg \pm 3dgt$		
$\bar{V} + Hz$	AC Voltage	1.0mS to 999.9mS	$\pm 0.5\%rdg \pm 3dgt$		
		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	10.0Hz to 4000Hz	$\pm 0.5\%rdg \pm 1dgt$	
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	4000Ω	$\pm 1.0\%rdg \pm 3dgt$			
Temperature	20kΩ	$\pm 1.0\%rdg \pm 1dgt$			
Functions	-30°C to 150°C	$\pm 1.0\%rdg \pm 3dgt$			
Peak Hold, MAX / MIN, Difference, Display Hold, Output Terminal (SK-7722)					

Automotive Testers  
Clamp Meters  
Insulation Testers / Earth Tester  
Digital Multimeters  
Analog Multimeters  
Other Testers  
Accessories

## 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

- 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 : φ 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
AC Current	400A		50Hz to 60Hz ±1.5%rdg±5dgt
	2000A	0 to 1000A 1001A or more	40Hz to 1kHz ±3.0%rdg±5dgt
			±3.0%rdg±5dgt
DC Current	400A		±1.5%rdg±5dgt
	2000A		±1.5%rdg±5dgt
			±3.0%rdg±5dgt
Frequency	1Hz to 4.999kHz		±0.2%rdg±2dgt
			±0.2%rdg±2dgt
			±0.2%rdg±2dgt
AC Voltage	4V / 40V / 400V / 600V		40Hz to 400Hz ±1.5%rdg±5dgt
	400mV / 4V / 40V / 400V / 600V		401Hz to 1KHz ±3.0%rdg±5dgt
			±1.2%rdg±3dgt
			±1.2%rdg±3dgt
DC Voltage	400mV / 4V / 40V / 400V / 600V		±1.2%rdg±3dgt
			±1.2%rdg±3dgt
			±1.2%rdg±3dgt
Frequency	1Hz to 100kHz		±0.2%rdg±2dgt
			±0.2%rdg±2dgt
Duty Cycle	0.1% to 99.9%		±2.0%rdg±2dgt
			±2.0%rdg±2dgt
Resistance	400Ω		±1.5%rdg±5dgt
	4kΩ / 40kΩ / 400kΩ		±1.0%rdg±3dgt
	4MΩ		±3.0%rdg±4dgt
	40MΩ		±5.0%rdg±7dgt
Continuity Test	400Ω		±1.5%rdg±5dgt
		Buzzer Sound : Approx. 50Ω or less	
Diode Test	0 to 1.5V		±5.0%rdg±5dgt
		Open Circuit Voltage : ≤1.7V	
Capacitance	50 / 500nF / 5 / 50 / 100 μF		±5.0%rdg±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.

#### SPECIFICATIONS

- Display : 4000 count LCD, Maximum reading 4000
- Sampling Rate : 2.5 times / sec
- Range Selection : Auto Ranging
- Conductor Diameter : φ 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		±1.8%rdg±5dgt
Functions	Display Hold, Auto Power OFF		

Multi-functional Handy Clamp with Long Battery Life



AC 400A AC/DC V Ω Hz ))) → DUTY % ↔  
MAX MIN DIFF DISP HOLD APO TRUE RMS  
 SK-7602

**SK-7602 TRUE RMS / SK-7603**

**FEATURES**

- 290-hours long time measurement (SK-7603, 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 (SK-7660), MAX/MIN and Difference measurement.

**SPECIFICATIONS**

Display : 4000 count LCD, Maximum reading 4050  
 Sampling Rate : 3 times / sec  
 Range Selection : Auto Ranging  
 Conductor Diameter : φ 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)

	Range	Accuracy
~ / Hz	AC Current	40A ±1.5%rdg±5dgt (50Hz/60Hz)
	Frequency	400A ±3.0%rdg±5dgt (40Hz to 400Hz)
V~ / V~	DC Voltage	5Hz to 1kHz ±0.2%rdg±2dgt
		400mV ±1.0%rdg±3dgt
	AC Voltage	4V ±1.0%rdg±2dgt
		40V ±1.5%rdg±5dgt (40Hz to 400Hz)
Hz / %	Frequency	400V ±1.0%rdg±2dgt
	Duty Cycle	4V ±1.5%rdg±5dgt (40Hz to 400Hz)
		5Hz to 49.99kHz ±0.2%rdg±2dgt
Resistance	5% to 95%	±2.0%rdg±3dgt
	400Ω	±1.5%rdg±5dgt
	4kΩ	±0.7%rdg±3dgt
	40kΩ	±1.2%rdg±5dgt
Other Measurements	400kΩ	±3.0%rdg±5dgt
	4MΩ	±1.2%rdg±5dgt
Functions	40MΩ	±3.0%rdg±5dgt
	Other Measurements	Continuity Test, Diode Test, Capacitance
Functions	MAX / MIN, Difference, Display Hold, Auto Power OFF	

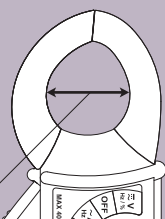
**OPTIONAL ACCESSORIES**

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

**Easy & Useful**

**Easy - to - Clamp**

SK-7602 / 7603's compact and beaked clamp heads assure easy clamping even for narrow conductors.



φ 27mm MAX

**Avoid Your Fingers Slips**

SK-7602 / 7603 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 / 7603 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



AC 400A AC/DC V Ω ))) →  
DISP HOLD APO

**SK-7615**

**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 : φ 26mm Max.  
 Power Supply : 1.5V LR-44 Batteries (x 2)  
 Dimensions : 171(H) x 72(W) x 35(D) mm  
 Weight : 180g  
 Accessories : 100-57 Test Leads (x 1 set)  
                   983 Carrying Case (x 1)  
                   1.5V LR-44 Batteries (x 2)

	Range	Accuracy
AC Current	2A/20A	±5.0%rdg±10dgt
	20A	±2.0%rdg±7dgt
	200A/400A	±1.5%rdg±7dgt
AC Voltage	Range	Accuracy
	2V/20V/200V/600V	±1.0%rdg±5dgt
DC Voltage	200mV	±0.5%rdg±2dgt
	2V/20V/200V	±0.8%rdg±2dgt
Resistance	600V	±1.0%rdg±2dgt
	200Ω/2kΩ/20kΩ/200kΩ	±1.5%rdg±5dgt
	2MΩ	±3.0%rdg±5dgt
Other Measurements	20MΩ	±5.0%rdg±5dgt
	Other Measurements	Continuity Test, Diode Test
Functions	Display Hold, Auto Power OFF	

**OPTIONAL ACCESSORIES**

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

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester

Digital Multimeters

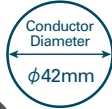
Analog Multimeters

Other Testers

Accessories

## AC Digital Clamp Meters

High Quality Clamp Meter that contains DMM functions



### 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 :  $\phi$  42mm Max.  
 Power Supply : 1.5V LR-44 Batteries (x 2)  
 Dimensions : 183(H) x 78(W) x 35(D) mm  
 Weight : 210g  
 Accessories : 100-57 Test Leads (x 1 set)  
 983 Carrying Case (x 1)  
 1.5V LR-44 Batteries (x 2)

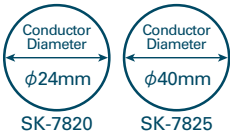
	Range	Accuracy
AC Current	2A/20A	2A $\pm 5.0\%rdg \pm 10dgt$ 20A $\pm 2.0\%rdg \pm 7dgt$
	200A/600A	200A $\pm 1.5\%rdg \pm 7dgt$ 600A
	Range	
	Accuracy	
AC Voltage	2V/20V/200V/600V	$\pm 1.0\%rdg \pm 5dgt$
DC Voltage	200mV	$\pm 0.5\%rdg \pm 2dgt$
	2V/20V/200V	$\pm 0.8\%rdg \pm 2dgt$
	600V	$\pm 1.0\%rdg \pm 2dgt$
Resistance	200 $\Omega$ /2k $\Omega$ /20k $\Omega$ /200k $\Omega$	$\pm 1.5\%rdg \pm 5dgt$
	2M $\Omega$	$\pm 3.0\%rdg \pm 5dgt$
	20M $\Omega$	$\pm 5.0\%rdg \pm 5dgt$
Other Measurements	Continuity Test, Diode Test	
Functions	Display Hold, Auto Power OFF	

#### OPTIONAL ACCESSORIES

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

## AC Leakage Clamp Meters

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

- 940 Alligator Clips
- 948 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 $\pm 1.0\%rdg \pm 7dgt$ 1.01mA or more $\pm 1.0\%rdg \pm 6dgt$	add $\pm 1.0\%rdg \pm 3dgt$	add $\pm 1.0\%rdg \pm 3dgt$
	40A	0.10A to 1.00A $\pm 2.0\%rdg \pm 7dgt$ 1.01A or more $\pm 2.0\%rdg \pm 5dgt$		
	100A	40.1A to 80.0A $\pm 2.0\%rdg \pm 5dgt$ 80.1A to 100.0A $\pm 4.0\%rdg \pm 5dgt$		
	AC Voltage	400V / 600V		
		5.0V to 10.0V $\pm 2.0\%rdg \pm 7dgt$ 10.1V or more $\pm 2.0\%rdg \pm 5dgt$		
Functions	Vibration alert comparator, Low pass filter, Display Hold, Auto Power OFF			

#### Advantages of SK-7820 / 7825

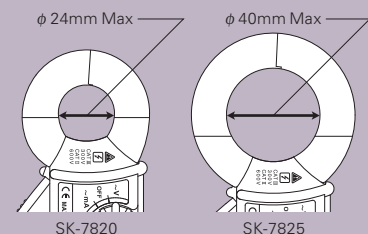
##### Vibration Alert Comparator

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>	SK-3002	SK-3003	SK-3500	SK-3502
<b>Digital / Analog</b>	Analog	Analog	Digital	Digital
<b>Measurement Ranges</b>	2-Ranges	2-Ranges	4-Ranges	4-Ranges
<b>Insulation Resistance</b>	250V	500V	50V	125V
	500V	1000V	125V	250V
	—	—	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>	—	—	●	●

## Analog Insulation Testers

### Multi-Functional Insulation Testers

SK-3002 SK-3002/3005 SK-3003 SK-3003/3005

250V 50MΩ 500V 100MΩ 500V 1000MΩ 1000V 2000MΩ AC V

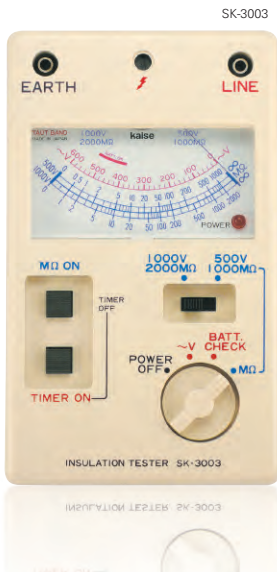
### SK-3002/SK-3003/SK-3005

#### SPECIFICATIONS

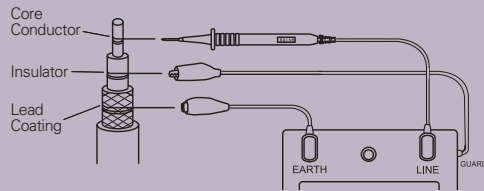
- Power Supply : 1.5V R6P or AA Batteries (x 8)
- Dimensions : 165(H) x 100(W) x 45(D) mm
- Weight : 540g
- Accessories : 100-34 Test Leads (x 1 set), 939 Test Pin (x 1)  
978 Carrying Case (x 1), 1.5V R6P Batteries (x 8)

#### OPTIONAL ACCESSORIES

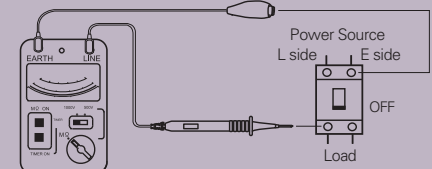
- 940R Red Alligator Clip



#### How to measure Volume Resistance



#### Insulation Resistance Measurements



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

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

Compact, But Powerfull. Versatile 4-Range Insulation Tester

SK-3500				SK-3502			
50V 200MΩ	125V 200MΩ	250V 2000MΩ	500V 2000MΩ	1000V 2000MΩ	LOW Ω	AC/DC V	
COMP	DATA MEMO	DISP HOLD	APS	Simple Dust Proof	Simple Water Resistant		

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				
		50V	125V	250V	500V	125V	250V	500V	1000V	
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		±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		±5%rdg±5dgt		±5%rdg±5dgt		
Low Resistance	Common to SK-3500 / SK-3502									
	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				
AC / DC Voltage	Open Circuit Voltage	6V or more				Approx. 10mA				
	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)

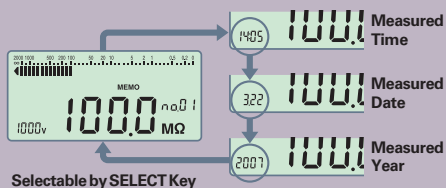
Wide bargraph scale that can confirm measurement values on sight like an analog meter. Backlight is helpful for easy reading even in dark areas.



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)

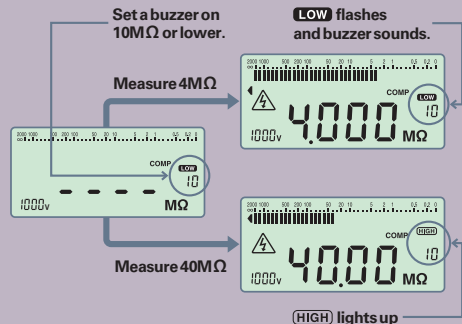
Example) Memorize 100MΩ measured under 1000V.







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.



## Digital Multimeters Index

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

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester






Digital Multimeters

Analog Multimeters




Other Testers

Accessories

## Digital Multimeters Index

					
Model	SK-6150	SK-6597	SK-6592	SK-4033	SK-4035
Display Counts	4000	4000	4000	4000	4000
Bargraph	●	—	—	—	—
DC Voltage	400mV	400mV	400mV	400mV	400mV
	4V	4V	4.0V	4V	4V
	40V	40V	40V	40V	40V
	400V	400V	400V	400V	400V
	1000V	600V	600V	600V	600V
AC Voltage	400mV	4V	4.0V	400mV	400mV
	4V	40V	40V	4V	4V
	40V	400V	400V	40V	40V
	400V	600V	600V	400V	400V
	750V	—	—	600V	600V
DC Current	40mA	40mA	—	400 μA	400 μA
	400mA	400mA	—	4000 μA	4000 μA
	4A	—	—	40mA	40mA
	20A	—	—	400mA	400mA
	—	—	—	10A	10A
AC Current	40mA	40mA	—	400 μA	400 μA
	400mA	400mA	—	4000 μA	4000 μA
	4A	—	—	40mA	40mA
	20A	—	—	400mA	400mA
	—	—	—	10A	10A
Resistance	400Ω	400Ω	400Ω	400Ω	400Ω
	4kΩ	4kΩ	4.0kΩ	4kΩ	4kΩ
	40kΩ	40kΩ	40kΩ	40kΩ	40kΩ
	400kΩ	400kΩ	400kΩ	400kΩ	400kΩ
	4MΩ	4MΩ	4.0MΩ	4MΩ	4MΩ
40MΩ	40MΩ	40MΩ	40MΩ	40MΩ	
Frequency	●	●	●	—	—
Duty Cycle	—	●	●	—	—
Continuity Test	●	●	●	—	—
Diode Test	●	●	●	—	—
Capacitance	—	●	●	—	—
Temperature	—	—	—	—	—
True RMS	—	—	—	—	●
Auto Ranging	●	●	●	●	●
Manual Ranging	●	—	—	●	●
MAX / MIN	●	●	●	—	—
Range Hold	●	—	—	●	●
Difference	●	●	●	—	—
Display Hold	●	●	●	—	—
Comparator	—	—	—	●	●
Current by Clamp Adapter	●	—	—	●	●
Dust Proof & Simple Water Resistant	●	—	—	—	—
Backlight	—	●	—	—	—
Penlight	—	●	—	—	—
Auto Power Save (Off)	●	●	●	—	—

## Digital Multimeters Index

			
<b>Model</b>	<b>SK-6555</b>	<b>KU-1199</b>	<b>SK-6500</b>
<b>Display Counts</b>	4000	4000	2000
<b>Bargraph</b>	—	—	—
<b>DC Voltage</b>	400mV	400mV	200mV
	4.0V	4V	2V
	40V	40V	20V
	400V	400V	200V
	600V	500V	600V
—	—	—	
<b>AC Voltage</b>	4.0V	400mV	2V
	40V	4V	20V
	400V	40V	200V
	600V	400V	600V
	—	500V	—
—	—	—	
<b>DC Current</b>	—	—	—
	—	—	—
	—	—	—
	—	—	—
	—	—	—
<b>AC Current</b>	—	—	—
	—	—	—
	—	—	—
	—	—	—
	—	—	—
<b>Resistance</b>	400Ω	400Ω	200Ω
	4.0kΩ	4kΩ	2kΩ
	40kΩ	40kΩ	20kΩ
	400kΩ	400kΩ	200kΩ
	4.0MΩ	4MΩ	2MΩ
	40MΩ	40MΩ	20MΩ
<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>	●	●	●

Automotive Testers

Clamp Meters

Insulation Testers/Earth Tester

Digital Multimeters

Analog Multitesters

Other Testers

Accessories

High Cost Performance, Temperature Measurement (KU-2602)



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
- 817-03 to 817-25 Temperature Probes (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



KU-2600

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 μV	±0.5%rdg±4dgt	≥100MΩ
	4V/40V	1mV/10mV	±0.5%rdg±5dgt	≈11MΩ
	40V/600V	100mV/1V	±1.0%rdg±4dgt	
	400mV	0.1mV	±4.0%rdg±8dgt	
AC Voltage	4V/40V	1mV/10mV	±1.2%rdg±5dgt	≈10MΩ
	40V	100mV	±1.2%rdg±5dgt	
	600V	1V	±1.5%rdg±5dgt	
	400μA/4000μA	0.1μA/1μA	±1.5%rdg±5dgt	
DC Current	40mA	10 μA	±2.0%rdg±4dgt	
	400mA	100 μA	±2.5%rdg±4dgt	
	10A	10mA	±2.5%rdg±4dgt	
	40mA	10 μA	±2.5%rdg±5dgt	
AC Current	400mA	100 μA	±3.0%rdg±5dgt	
	10A	10mA	±3.0%rdg±5dgt	
	400Ω/4kΩ	0.1Ω/1Ω	±1.0%rdg±3dgt	
	40kΩ/400kΩ	10Ω/100Ω	±1.8%rdg±3dgt	
Resistance	4MΩ/40MΩ	1kΩ/10kΩ	±1.8%rdg±3dgt	
	Open Circuit Voltage : Approx. 0.44V			
	9.999Hz to 9.999MHz	0.01Hz to 1.0kHz	±0.2%rdg±1dgt	
Duty Cycle	0% to 99.9%	0.1%	±0.2%rdg±2dgt	
Continuity Test	400Ω (Buzzer Sound : Approx. 50Ω or less)			
Diode Test	4V	±5.0%rdg±3dgt		
Capacitance	Open Circuit Voltage : ≤1.5V			
	0.1nF to 40nF / 40nF to 40 μF / 40 μF to 200 μF (±3.0%rdg±5dgt)			
Functions	Difference, Range Hold, Display Hold, Auto Power Off, Reset			

KU-2602

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV		≥100MΩ
	4V	1mV	±0.5%rdg±5dgt	≈11MΩ
	40V	10mV		
	400V	100mV		≈10MΩ
	600V	1V	±0.8%rdg±5dgt	
AC Voltage	400mV	0.1mV	±1.2%rdg±5dgt	≈11MΩ
	4V	1mV	±0.8%rdg±5dgt	
	40V	10mV	±0.8%rdg±5dgt	
	400V	100mV	±1.2%rdg±5dgt	≈10MΩ
	600V	1V	±1.2%rdg±5dgt	
DC Current	Range	Resolution	Accuracy	Voltage Drop
	400μA/4000μA	0.1μA/1μA	±1.5%rdg±5dgt	40mV/400mV
	40mA/400mA	10μA/100μA	±2.0%rdg±5dgt	70mV/700mV
	4A/10A	1mA/10mA	±2.0%rdg±5dgt	500mV/1.4V
AC Current	400μA/4000μA	0.1μA/1μA	±2.0%rdg±5dgt	40mV/400mV
	40mA/400mA	10μA/100μA	±2.0%rdg±5dgt	70mV/700mV
	4A/10A	1mA/10mA	±2.5%rdg±5dgt	500mV/1.4V
	Range	Resolution	Accuracy	Test Current
400Ω	0.1Ω		≤0.3mA	
Resistance	4kΩ	1Ω	±1.0%rdg±5dgt	≤40 μA
	40kΩ	10Ω		≤4 μA
	400kΩ	100Ω		≤0.4 μA
	4MΩ	1kΩ		≤40nA
	40MΩ	10kΩ	±2.0%rdg±5dgt	
Open Circuit Voltage : Approx. 0.44V				
Temperature	Range	Resolution	Accuracy	Sensor
	0°C to 40°C		±3°C	Built-in
	-20°C to 200°C	1°C	±0.75%rdg±3°C	External
Frequency	9.999Hz to 9.999MHz	0.01Hz to 1.0kHz	±0.02%rdg±5dgt	
	Duty Cycle	0.1% to 99.9%	0.1%	±2%rdg±5dgt
Continuity Test	400Ω (Buzzer Sound : Approx. 60Ω or less)			
Diode Test	4V	±5.0%rdg±3dgt		
Capacitance	Open Circuit Voltage : ≤1.5V			
	4 / 40 / 400nF / 4 / 40 / 200 μF (±2.0%rdg±5dgt)			
Functions	Difference, Range Hold, Display Hold, Auto Power Off, Reset			

Features of KU-2600/KU-2602

Standard hand-held Digital Multimeter

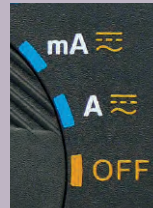
Easy to carry around to any measuring field.



Color-coded Range Switch

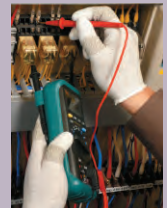
Helps your range selecting with color-coding switches.

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 (x2)  
 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 (x2)  
 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



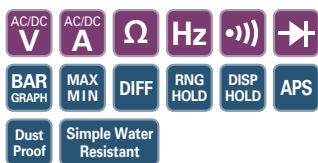
	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	400mV	0.1mV	±0.5%rdg±2dgt	≥100MΩ	
	4V	1mV	±0.5%rdg±1dgt	≈11MΩ	
	40/400/1000V	10m/100m/1V	±0.5%rdg±1dgt	≈10MΩ	
AC Voltage	4V	1mV	±1%rdg±5dgt	≈11MΩ	
	40/400/750V	10m/100m/1V	±1%rdg±1dgt	≈10MΩ	
	Frequency	5Hz to 20kHz	0.01 to 10Hz	±0.2%rdg±2dgt	
Duty Cycle	10 to 90%	0.1%	±2%rdg±2dgt		
DC Current	400μ/4000μA*	0.1 μ/1 μA	±1%rdg±1dgt	0.11mV/μA	
	40m/400mA	0.01m/0.1mA	±1%rdg±1dgt	2mV/mA	
	4A	1mA	±1.5%rdg±2dgt	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		
	Resistance	400Ω	0.1Ω	±0.8%rdg±3dgt	≤0.3mA
		4kΩ	1Ω		≤40μA
40kΩ		10Ω	±0.8%rdg±2dgt	≤4μA	
400kΩ		100Ω		≤0.4μA	
4MΩ		1kΩ	±2%rdg±3dgt	≤40nA	
40MΩ	10kΩ	±3%rdg±3dgt			
Open Circuit Voltage	Voltage : Approx. 0.44V				
Continuity Test	400Ω (Buzzer Sound : Approx. 60Ω or less)				
Diode Test	1V (Open Circuit Voltage : ≤1.7V)				
Capacitance	50 / 500nF / 5 / 50 / 100 μF (±5.0%rdg±10dgt)				
Functions	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 | 940 Alligator Clips       |
| 100-41 Test Lead Kit      | 948 Alligator Clips       |
| 100-62 Test Lead Set      | 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 (x2)  
 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 (x2)

#### OPTIONAL ACCESSORIES

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

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



Automotive Testers

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multimeters

Other Testers

Accessories

Improved probe tester with enhanced functions



### SK-6597



#### FEATURES

- Current measurement up to AC / DC 400mA.
- Penlight and backlight LCD.

#### SPECIFICATIONS

Display : 4000 count LCD  
 Sampling Rate : 3 times / sec.  
 Range Selection : Auto 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)

#### OPTIONAL ACCESSORIES

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

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV		≥100MΩ
	4V	1mV	±0.5%rdg±3dgt	≈11MΩ
	40V	10mV		
	400V	100mV	±1.0%rdg±3dgt	≈10MΩ
	600V	1V		
			50Hz to 500Hz	
AC Voltage	4V	1mV		≈11MΩ
	40V	10mV		
	400V	100mV	±1.5%rdg±5dgt	≈10MΩ
	600V	1V		
Frequency	1Hz to 100kHz	0.001 to 100Hz	±0.2%rdg±2dgt	
Duty Cycle	0.0% to 99.9%	0.1%	±0.5%rdg±5dgt	
DC Current	Range	Resolution	Accuracy	Burden Voltage
	40mA	10 μA	±1.0%rdg±2dgt	<0.1V
	400mA	100 μA		<0.6V
	40mA	10 μA	±1.5%rdg±7dgt	<0.1V
	400mA	100 μA		<0.6V
AC Current	Range	Resolution	Accuracy	Test Current
	40mA	10 μA	±0.2%rdg±2dgt	
	400mA	100 μA		
	40mA	10 μA	±1.5%rdg±7dgt	≤0.2mA
	400mA	100 μA		≤50 μA
Resistance	Range	Resolution	Accuracy	Test Current
	400Ω	0.1 Ω	±1.5%rdg±4dgt	≤50 μA
	4kΩ	1 Ω		≤5 μA
	40kΩ	10 Ω	±1.0%rdg±3dgt	≤5 μA
	400kΩ	100 Ω		≤5 μA
4MΩ	1k Ω	±5.0%rdg±3dgt	≤50nA	
40MΩ	10k Ω	±7.0%rdg±3dgt		
	Open Circuit Voltage : ≈0.44V			
Continuity Test	400Ω (Buzzer Sound : Approx. 50Ω or less)			
Diode Test	1V		±5.0%rdg±3dgt	≤0.7mA
	Open Circuit Voltage : ≤1.7V			
Capacitance	50 / 500nF / 5 / 50 / 100 μF		±5.0%rdg±10dgt	
Functions	MAX / MIN, Display Hold, Difference, Auto Power Off, Penlight and Backlight			

#### Advantages of SK-6597

##### Easy-to-use pen-type tester

Handheld tester like an industrial tool.



##### Current measurement

Can measure up to 400mA AC/DC.

##### Penlight and backlight LCD

Brightly illuminate test points and display even in the dark place.



##### Easy-to-read large LCD (compared to the existing model)

##### Clear buzzer sound

Easy-to-hear buzzer sound even in noisy conditions.

##### Replaceable Test Pin and Test Lead

Easy replacement without any tools.

- Screw-in type Test Pin
- Plug-in type Test Lead



##### Easy-to-use large Test Lead

##### Gold-plated Test Pin and Test Lead Tip

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



	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	400mV	100 μV		≥100MΩ	
	4.0V	1mV	±0.5%rdg±3dgt	≈11MΩ	
	40V	10mV			
	400V/600V	100mV/1V	±1.0%rdg±3dgt	≈10MΩ	
	4.0V	1mV		≈11MΩ	
AC Voltage	40V/400V	10mV/100mV	±1.5%rdg±5dgt	≈10MΩ	
	600V	1V			
	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	0.1 Ω	±1.5%rdg±4dgt	≤0.2mA	
	4.0kΩ	1 Ω		≤50 μA	
	40kΩ	10 Ω	±1.0%rdg±3dgt	≤5 μA	
	400kΩ	100 Ω		≤0.5 μA	
4.0MΩ	1k Ω	±5.0%rdg±3dgt	≤50nA		
40MΩ	10k Ω	±7.0%rdg±3dgt			
	Open Circuit Voltage : ≈0.44V				
Continuity Test	400Ω (Buzzer Sound : Approx. 60Ω or less)				
Diode Test	1V		±5.0%rdg±3dgt	≤0.7mA	
	Open Circuit Voltage : ≤1.7V				
Capacitance	50 / 500nF / 5 / 50 / 100 μF		±5.0%rdg±10dgt		
Functions	MAX / MIN, Difference, Display Hold, Auto Power Off				



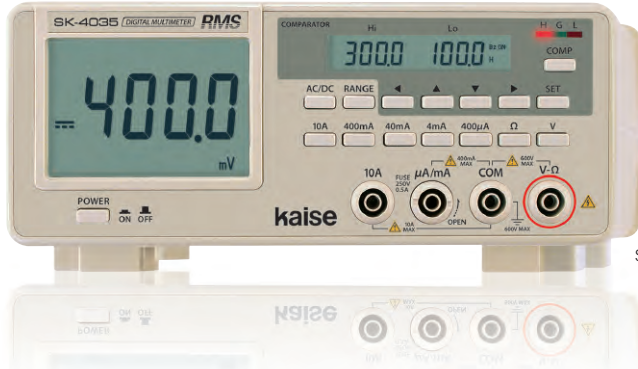
Bench-Type DMM with Output Terminals



SK-4033/SK-4035 TRUE RMS



Output Terminals



SK-4035

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

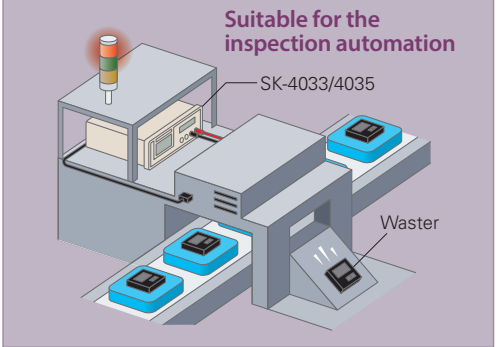
OPTIONAL ACCESSORIES

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

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

Functions: Comparator, Range Hold

Output Terminals



Suitable for the inspection automation

SK-4033/4035

Waster

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	100 μV		≥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		≈10MΩ
	40V/400V	10mV/100mV/600V	±1.5%rdg±5dgt	
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		≤50 μA
	40kΩ	10Ω	±1.0%rdg±3dgt	≤5 μA
	400kΩ	100Ω		≤0.5 μA
	4.0MΩ	1kΩ	±3.0%rdg±3dgt	
40MΩ	10kΩ	±7.0%rdg±3dgt	≤50nA	
Open Circuit Voltage	: ≈0.44V			
Continuity Test	400Ω (Buzzer Sound : Approx. 60Ω or less)			
Diode Test	1V		±5.0%rdg±3dgt	≤0.7mA
Open Circuit Voltage	: ≤1.7V			
Capacitance	50 / 500nF / 5 / 50 / 100 μF (±5.0%rdg±10dgt)			
Functions	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save			

Auto Measurement for DC / AC Voltage & Resistance



**KU-1199**



**FEATURES**

- Auto-SCAN Measurement. No need for selecting DC/AC Voltages and Resistance ranges.
- Only 11 mm 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

	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	400mV	100 μV	±0.5%rdg±3dgt	≅5MΩ	
	4V	1mV			
	40V	10mV			
	400V	100mV			
	500V	1V			
AC Voltage	400mV	100 μV	±1.0%rdg±8dgt (100mV~)	≅5MΩ	
	4V	1mV			
	40V	10mV			
	400V	100mV			
	500V	1V			
Resistance	Range	Resolution	Accuracy		
	400Ω	0.1Ω	±1.0%rdg±5dgt		
	4kΩ	1Ω			
	40kΩ	10Ω			
	400kΩ	100Ω		±1.0%rdg±3dgt	
	4MΩ	1kΩ			
	40MΩ	10kΩ			
Open Circuit Voltage : ≦0.25V					
Continuity Test	400Ω (Buzzer Sound : 12Ω to 70Ω)				
Diode Test	2V	±5.0%rdg±3dgt		1±0.6mA	
	Open Circuit Voltage : ≦2.9V				
Functions	Auto Power Off				

**OPTIONAL ACCESSORY**

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

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 Ω) and start the measurement. Read the test result on LCD.

DC Voltage

Example : Battery



AC Voltage

Example : Wall outlet



Resistance

Example : 5Ω 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

**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



Advantages of SK-6500

Ultraslim 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.



	Range	Resolution	Accuracy	Test Current	
DC Voltage	200mV	100 μV	±1.3%rdg±5dgt	≧100MΩ	
	2V	1mV		≧12MΩ	
	20V	10mV		±1.3%rdg±3dgt	≧10MΩ
	200V	100mV			
	600V	1V			
AC Voltage	2V	1mV	±2.0%rdg±8dgt	≧12MΩ	
	20V	10mV		±10MΩ	
	200V	100mV			
	600V	1V			
	Resistance	Range			Resolution
200Ω		0.1Ω	±2.0%rdg±4dgt	≧1mA	
2kΩ		1Ω		≧0.3mA	
20kΩ		10Ω		≧40 μA	
200kΩ		100Ω		≧4 μA	
2MΩ		1kΩ		≧0.4 μA	
20MΩ		10kΩ		±5.0%rdg±4dgt	≧0.04 μA
Open Circuit Voltage : ≦0.45V					
Continuity Test	200Ω (Buzzer Sound : Approx. 50Ω or less)				
Diode Test	2V	±5.0%rdg±4dgt		≧0.7mA	
	Open Circuit Voltage : ≦1.7V				
Functions	Display Hold, Auto Power Off				

## 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)x90(W)x30(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	60 μ / 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)x90(W)x30(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

	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	60 μ / 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)		

#### OPTIONAL ACCESSORIES

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

## 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)

#### 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.

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

## Digital Sound Level Meter

For Sound Level Check of Living Environment



### 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	Very noisy
90dB	Noisy factory	
80dB	Subway inside (open-window), Piano	Loud
70dB	Vacuum cleaner, Noisy office	
60dB	Normal conversation, TV sound	Moderate
50dB	Quiet office	
40dB	Library	Quiet
30dB	Whispering voice	
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



### 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),

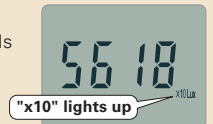
#### OPTIONAL ACCESSORIES

1026 Carrying Case

#### 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

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



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	

## Test Leads

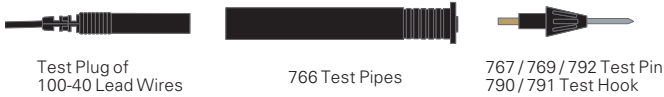
### 100-41 Test Lead Kit



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

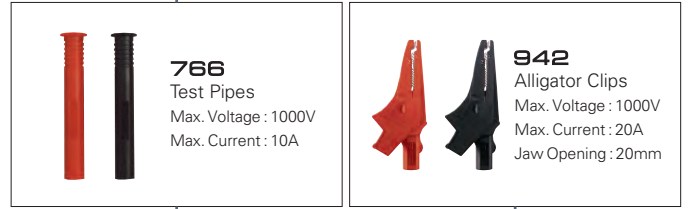
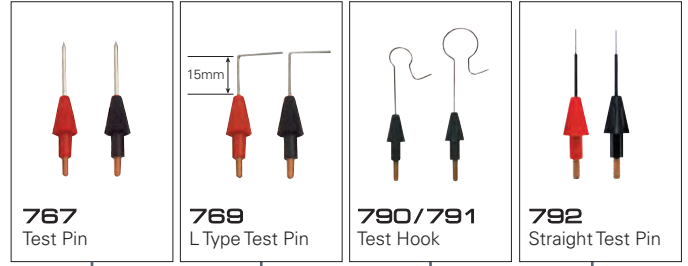
\*Red and black parts are contained except for 790 and 791.

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-2500/7682/7718/7719/7720/7722/7708/7615/7625/6161/6163/6150/4033/4035/6166	
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



### 100-62 Test Lead Set

Combination of useful components from 100-41.



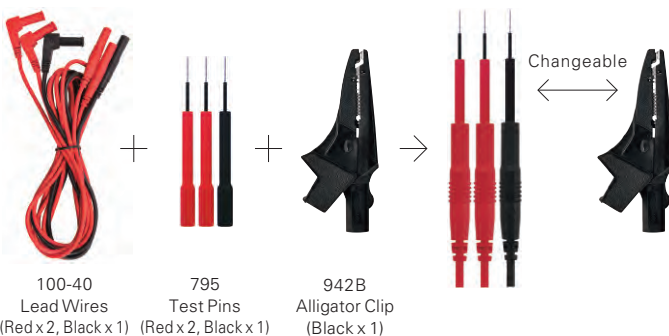
Models	Test Lead Set
100-40	Lead Wires
766R	Red Test Pipe
792R	Red Straight Test Pin
942B	Black Alligator Clip

Applicable Models	
Same models 100-41	

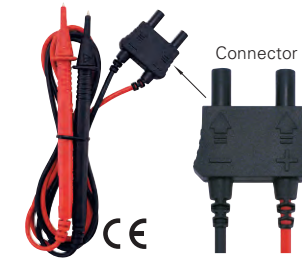
### NEW 100-72 Oscilloscope Test Lead Set

Narrow test pins that can insert wire harness.  
Included 2 sets of red test leads / test pins allows 2-channels measurement.  
Use black alligator clip for grounding.

Applicable Models	
SK-2500	



### 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-7660/7661/7602/7603/7820/7825	

### 100-57 Test Leads



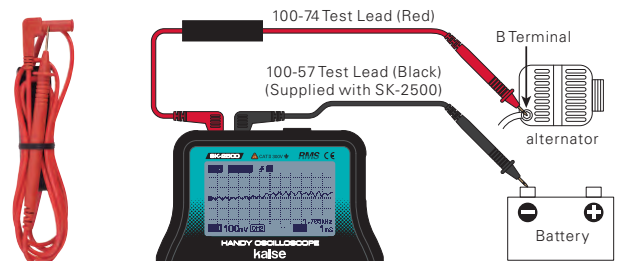
Major test lead for our products.  
Gold-plated pins assures long-lasting contact.

Applicable Models	
SK-7682/7718/7719/7720/7722/7708/7615/7625/6161/6163/6150/4033/4035/6166	

### NEW 100-74 Ripple Voltage Test Lead

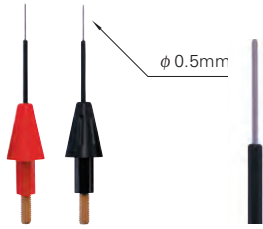
Can view the Ripple Voltage waveform of the alternator by removing DC elements from the measuring voltage.

Applicable Models	
SK-2500	



## Test Pins

### 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.

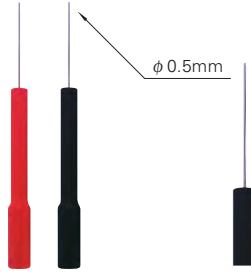
Max. Current : 1A Max. Voltage : 50V

#### Applicable Models

SK-6592/6597/100-41

\*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 :

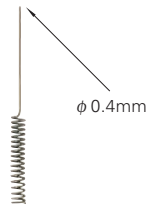
795 can connect to 100-40 directly without 766 test pipes.

Max. Current : 1A Max. Voltage : 50V

#### Applicable Models

SK-8402/100-40/100-72

### 793 Coil-Type Contact Pin



Max. Current : 1A  
Max. Voltage : 50V

#### Applicable Models

SK-7660/7661/7682/7718/7719/7720  
7722/7708/7602/7603/7615/7625  
7820/7825/6161/6163/6150/6597  
6592/4033/4035/6555/6500/6166  
KU-2600/2602/1199 KF-32/20  
KT-2021

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

### 944 Test Pin



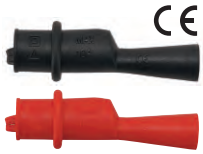
This test pin is suitable for narrow point measurement. That can measure with inserting the pin to the backside of insulation coupler of the car.

#### Applicable Models

SK-2500/7661/7682/7718/7720/7722  
6166/6597/6594  
KT-2021

## Clips

### 948 Alligator Clips



#### Applicable Models

SK-7660/7661/7682/7718/7719/7720/7722/7708  
7602/7603/7615/7625/7820/7825/3500\*/3502\*  
6161/6163/6150/6597/6592/4033/4035/6555  
6500/6166  
KU-2600/2602/1199 KF-32/20

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

### 940 Alligator Clips



#### Applicable Models

SK-7660/7661/7718/7719/7720/7722/7708/7602  
7603/7615/7625/7820/7825/3500\*/3502\*/6161  
6163/6150/6597/6592/4033/4035/6555/6500  
KU-2600/2602/1199 KF-32/20

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

## Temperature Probe

Applied for the testers that have temperature measurement function.

### 818-02 Temperature Probe



Measurement	Applicable Models
-50°C to 100°C	SK-2500/7720/7722 KU-2602 KT-2021

### 819 Temperature Probe



Measurement	Applicable Models
-50°C to 700°C	SK-2500/7720/7722 KU-2602 KT-2021

### 817-03/17/19/25 Temperature Probe [TYPE K (CA)]

Unit : mm

MODEL	Tip Form	Dimensions
817-03	Liquid Temp.	
817-17	Internal Temp.	
817-19	Internal Temp.	
817-25	Air Temp.	

Measurement	Applicable Models
817-03 : -50°C to 1150°C	SK-7720/7722
817-17 : -50°C to 600°C	KU-2602/KT-2021
817-19 : -50°C to 750°C	
817-25 : 0 to 200°C	

## Clamp Adapter

### 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

## Battery Cable

### NEW 800 Battery Cable



Replaceable battery cable by one screwdriver.

#### Applicable Models

SK-8550

\*Can not use for SK-8530/SK-8535.

## Printer Paper

### 851 Printer Paper



Optional printer paper for SK-8530 / 8535 / 8550 Battery Checkers.





















Quantity	10 rolls/set
Width	Approx. 57mm
Length	Approx. 5.8m

#### Applicable Models























SK-8530/8535/8550

## Mark Descriptions

### Measurement Items

 <b>AC Current</b> AC Current measurement is possible.	 <b>Diode Test</b> Diode test is possible measuring its forward and reverse side.	 <b>Dwell Angle</b> Electricity time for automobile engine is measurable converting into an angle.
 <b>DC Current</b> DC Current measurement is possible.	 <b>Temperature</b> Temperature is measurable using the temperature probes.	 <b>Revolutions Per Minute</b> RPM of automobile engine is measurable.
 <b>AC Voltage</b> AC Voltage measurement is possible.	 <b>Capacitance</b> Capacity of electronic capacitor (electrostatic capacity) is measurable in F (farad) unit.	 <b>Low Resistance</b> Low Resistance measurement is possible.
 <b>DC Voltage</b> DC Voltage measurement is possible.	 <b>Duty Cycle</b> The duty cycle of repeating waveform is measurable and indicated in a percentage basis(%).	 <b>Sound Level</b> Noise level measurement is possible.
 <b>Resistance</b> Resistance measurement is possible.	 <b>Decibel (low-frequency output)</b> Low frequency output like audio amplifier is measurable in dB (decibel) unit.	 <b>Illuminance</b> Illuminance measurement is possible.
 <b>Continuity Test</b> The buzzer sounds when the measuring object is electrically conducting.	 <b>Pulse Width</b> Waveform pulse width for logic or switching controls are measurable in ms (milli-second) unit.	 <b>Magnetic Field</b> Magnetic Field measurement is possible.
 <b>Frequency</b> Frequency measurement is possible.	 <b>Battery Test</b> Battery voltage and its condition are tested applying a certain current to the tester.	

### Measurement Functions

 <b>True RMS (True root-mean-square value)</b> True RMS value. AC current and voltage of a non-sine wave can be measured by true RMS values.	 <b>Auto Power Off</b> 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.	 <b>Drop Proof</b> Anti-shock structure enables to protect the tester from the strong shock by the 1-meter-dropping-off.
 <b>Display Hold</b> Enables to hold the indicating values on LCD. Useful to note down the measurement values.	 <b>Auto Power Save</b> 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.	 <b>Output Terminal</b> An output terminal connectable to the Oscilloscopes or Recorder is available.
 <b>MAX/MIN</b> The minimum and maximum of the measurement values are measurable and indicates on LCD.	 <b>Data Memory</b> Measurement data can be saved in internal memory.	 <b>Dust Proof</b> Dust-proof case is used to protect the tester from dust damage.
 <b>Average</b> The average of the measurements value for a certain period of time is measurable.	 <b>Power-On Initialize</b> Automatic Zero-Adjustment function to adjust LCD indications into $0 \pm 1$ digit when powered on.	 <b>Fireproof Case</b> The fireproof case protects the instrument inside from fire.
 <b>Peak Hold</b> The Peak current value in a certain period of time is measurable and indicates on LCD.	 <b>Low Pass Filter</b> Frequency signals higher than the specified cutting-off frequency are intercepted.	 <b>Simple Water Resistant</b> Water-Resistant case is used to protect the tester from water damage.
 <b>Difference</b> A certain measurement value is stored and converted into zero. The difference between measuring value and stored value is indicated with proceeding measurements.	 <b>Backlight LCD</b> Useful for easy reading even in dark areas.	 <b>Error input warning</b> Safety function to prevent incorrect test lead connection.
 <b>Range Hold</b> Enables to hold the ranges when the Current or Voltage values are unstable and difficult to read.	 <b>Penlight</b> Brightly illuminate test points with LED light. Useful for testing in dark place.	
 <b>Bar Graph</b> Bar Graph is available on LCD. Zoom-up function is available for some models.	 <b>Comparator (Comparing function)</b> Buzzer sounds when the input value is beyond the specified high and low limits.	

# kaise

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