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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.

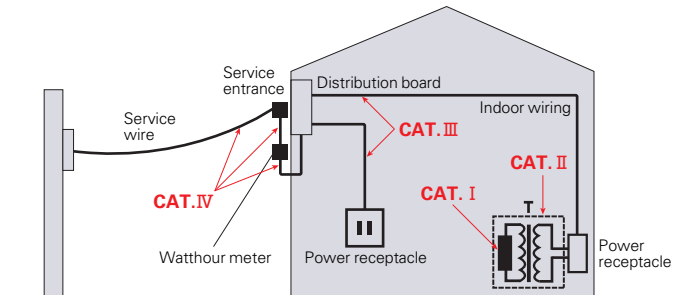
Therefore, to measure High Power Circuits or High Power Line more than 220V, such as Power Supplies for Factory Equipments and Facilities, etc., do NOT use any ordinary multimeters. Use the instruments especially designed for High Power Line. High Power Line sometimes includes Surge Voltage more than 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 I to CAT IV, and called measurement categories. These are defined as follows.

- CAT. I** Secondary electrical circuits connected to an AC electrical outlet through a transformer or similar device.
- 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 I measuring product in CAT II, III, or IV environments. The measurement categories comply with the Overvoltage Categories of the IEC60664 Standards.

ISO 9001 : 2000 (Quality assurance)

ISO (International Organization for Standardization) is a global network that identifies what International Standards are required by business, government and society, develops them in partnership with the sectors that will put them to use, adopts them by transparent procedures based on national input and delivers them to be implemented worldwide.

KAISE CORPORATION has been assessed to comply with the requirements of the following Quality Management System Standard.

ISO 9001 : 2000 JIS Q 9001 : 2000

Design and Development, Manufacture and Servicing of Electric and Electronic Measuring Instruments.

Registration Date : 1st October 2005 Original Registration : 1st October 1999

CE Mark

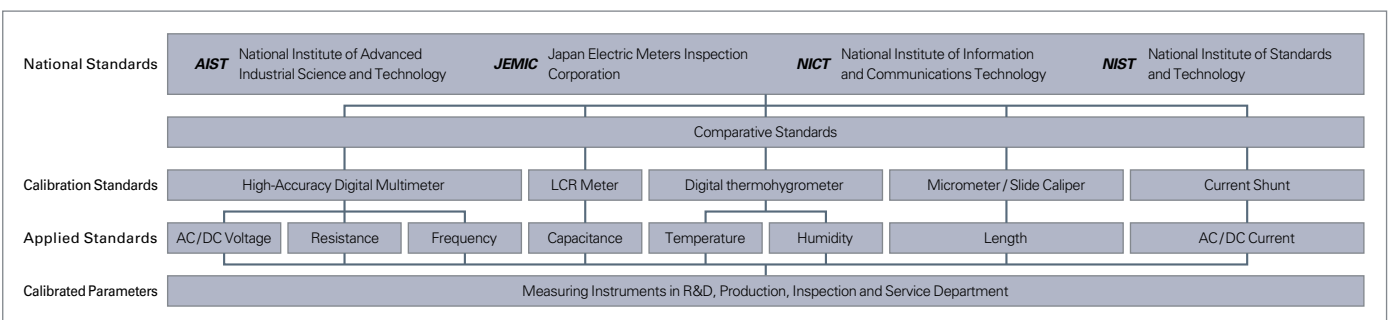


CE marking is a safety mark which can be attached only on a product meeting the safety requirements of the Directive of Council of the European Union (EC Directive).






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.








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

Clamp Meters Index

	AC / DC Digital Clamp Meters				
					
Model	SK-7720	SK-7722	SK-7706	SK-7707	SK-7708
Display Counts	4000	4000	4000	4000	4000
Conductor Diameter	φ 36mm	φ 36mm	φ 55mm	φ 55mm	φ 55mm
DC Current	400A	400A	400A	400A	400A
	1000A	1000A	2000A	2000A	2000A
	—	—	—	—	—
AC Current	400A	400A	400A	400A	400A
	1000A	1000A	2000A	2000A	2000A
	—	—	—	—	—
	—	—	—	—	—
DC Voltage	400V	40V	40V	400mV	400mV
	650V	250V	400V	4V	4V
	—	—	600V	40V	40V
	—	—	—	400V	400V
	—	—	—	600V	600V
AC Voltage	400V	40V	40V	4V	4V
	650V	250V	400V	40V	40V
	—	—	600V	400V	400V
	—	—	—	600V	600V
Resistance	4000Ω	4000Ω	4kΩ	400Ω	400Ω
	20kΩ	20kΩ	40kΩ	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	●*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					
						
Model	SK-7600	SK-7602	SK-7603	SK-7615	SK-7625	SK-7640
Display Counts	4000	4000	4000	2000	2000	4000
Conductor Diameter	φ 27mm	φ 27mm	φ 27mm	φ 26mm	φ 42mm	φ 55mm
DC Current	—	—	—	—	—	—
AC Current	40A 200A	40A 400A	40A 400A	2A 20A 200A 400A	2A 20A 200A 600A	400A 2000A
DC Voltage	—	400mV 4V 40V 400V 600V	400mV 4V 40V 400V 600V	200mV 2V 20V 200V 600V	200mV 2V 20V 200V 600V	400mV 4V 40V 400V 600V
AC Voltage	—	4V 40V 400V 600V	4V 40V 400V 600V	2V 20V 200V 600V	2V 20V 200V 600V	4V 40V 400V 600V
Resistance	—	400Ω 4kΩ 40kΩ 400kΩ 4MΩ 40MΩ	400Ω 4kΩ 40kΩ 400kΩ 4MΩ 40MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 20MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 20MΩ	400Ω 4kΩ 40kΩ 400kΩ 4MΩ 40MΩ
Frequency	—	●	●	—	—	●
Duty Cycle	—	●	●	—	—	●
Pulse Width	—	—	—	—	—	—
Continuity Test	—	●	●	●	●	●
Diode Test	—	●	●	●	●	●
Capacitance	—	●	●	—	—	●
Temperature	—	—	—	—	—	—
True RMS	—	●	—	—	—	●
Auto Ranging	●	●	●	●*2	●*2	●
Manual Ranging	—	—	—	—	—	●
MAX / MIN	—	●	●	—	—	●
Average	—	—	—	—	—	—
Peak Hold	—	—	—	—	—	—
Range Hold	—	—	—	—	—	●
Difference	—	●	●	—	—	●
Display Hold	●	●	●	●	●	●
Power-On Initialize	—	—	—	—	—	—
Comparator	—	—	—	—	—	—
Low Pass Filter	—	—	—	—	—	—
Output Terminal	—	—	—	—	—	—
External Power Supply	—	—	—	—	—	—
Dust Proof & Simple Water Resistant	—	—	—	—	—	●
Auto Power Save (Off)	●	●	●	●	●	●

*2 : Two-ranges auto for ACA.

Clamp Meters Index

	AC Leakage Clamp Meters			
				
Model	SK-7810	SK-7815	SK-7820	SK-7825
Display Counts	3200	3200	4000	4000
Conductor Diameter	φ 30mm	φ 30mm	φ 24mm	φ 40mm
DC Current	—	—	—	—
AC Current	30mA 300mA 60A	30mA 300mA 30A 60A	40mA 400mA 40A 100A	40mA 400mA 40A 100A
DC Voltage	—	—	—	—
AC Voltage	—	300V 600V	400V 600V	400V 600V
Resistance	—	—	—	—
Frequency	—	—	—	—
Duty Cycle	—	—	—	—
Pulse Width	—	—	—	—
Continuity Test	—	—	—	—
Diode Test	—	—	—	—
Capacitance	—	—	—	—
Temperature	—	—	—	—
True RMS	—	—	—	—
Auto Ranging	—	●	●*3	●*3
Manual Ranging	●	—	—	—
MAX / MIN	●	●	—	—
Average	—	—	—	—
Peak Hold	—	—	—	—
Range Hold	—	—	—	—
Difference	—	—	—	—
Display Hold	●	●	●	●
Power-On Initialize	—	—	—	—
Comparator	●	●	●(with Vibration)	●(with Vibration)
Low Pass Filter	●	●	●	●
Output Terminal	●	—	—	—
External Power Supply	—	—	—	—
Dust Proof & Simple Water Resistant	—	—	—	—
Auto Power Save (Off)	●	●	●	●

*3 : mA / A : switch selection

Handy-size Clamps with Efficient Functions

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multitesters

Automotive Testers

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 / **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 : φ 27mm Max.

Power Supply : 1.5V R03 or AAA Batteries (x 2)

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

Dimensions : 170(H) x 58(W) x 27(D)mm

Weight : 160g

Accessories : 100-63 Test Leads (x 1 set)
1015 Carrying Case (x 1)
1.5V R03 Batteries (x 2)

OPTIONAL ACCESSORIES

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

		Range	Accuracy
\bar{A} / \tilde{A} 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 $\pm 4.0\%rdg \pm 3dgt$
		400A*	$\pm 1.5\%rdg \pm 5dgt$ (50/60Hz) 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)
	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)
		400A*	$\pm 1.5\%rdg \pm 5dgt$ (50/60Hz)
\bar{V} / \tilde{V} Hz / %	DC Voltage	400mV	$\pm 0.2\%rdg \pm 2dgt$
		4V	$\pm 1.0\%rdg \pm 3dgt$
		40V 400V 600V	$\pm 1.0\%rdg \pm 2dgt$
	AC Voltage	4V	$\pm 1.5\%rdg \pm 5dgt$ (40 to 400Hz)
		40V 400V 600V	$\pm 1.5\%rdg \pm 5dgt$ (40 to 400Hz)
		Frequency	5Hz to 49.99kHz $\pm 0.2\%rdg \pm 2dgt$
Resistance	Duty Cycle	5% to 95% $\pm 1.0\%rdg \pm 3dgt$	
	400Ω	$\pm 1.5\%rdg \pm 5dgt$	
	4kΩ 40kΩ 400kΩ 4MΩ 40MΩ	$\pm 0.7\%rdg \pm 3dgt$ $\pm 1.2\%rdg \pm 5dgt$ $\pm 3.0\%rdg \pm 5dgt$ $\pm 1.5\%rdg \pm 5dgt$ $\pm 5.0\%rdg \pm 5dgt$	
Other Measurements	Continuity Test, Diode Test, Capacitance		
Functions	Peak Hold (SK-7660), MAX / MIN (SK-7661), Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power OFF		

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

Focused on High-Flexibility



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

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 : φ 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)

		Range	Accuracy
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 $\pm 5.0\%rdg \pm 5dgt$	
DC Voltage	400mV	$\pm 1.0\%rdg \pm 3dgt$	
	4V	$\pm 1.0\%rdg \pm 2dgt$	
	40V 400V 600V	$\pm 1.0\%rdg \pm 2dgt$	
AC Voltage	4V	$\pm 1.5\%rdg \pm 5dgt$	
	40V 400V 600V	$\pm 1.5\%rdg \pm 5dgt$	
	Other Measurements	Frequency, Duty Cycle	
Functions	MAX / MIN, Peak Hold, Difference, Power-on Initialize (for DC Current measurement), Display Hold, Auto Power Off		

OPTIONAL ACCESSORIES

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

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 / 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 : ϕ 35mm Max.
 Power Supply : 9V 6F22 Battery (x 1)
 CE Mark : CAT III 600V and EMC
 Dimensions : 193(H) x 60(W) x 34.5(D) mm
 Weight : 300g
 Accessories : 100-57 Test Leads (x 1 set)
 1012 Carrying Case (x 1)
 9V 6F22 Battery (x 1)

OPTIONAL ACCESSORIES

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

		Range	Accuracy
AC / DC A / A Hz	AC Current	400A	±1.5%rdg±5dgt
		1000A	400 to 600A ±1.5%rdg±5dgt 601 to 1000A ±3.0%rdg±5dgt
	DC Current	400A	±1.5%rdg±3dgt
	1000A	400 to 600A ±1.5%rdg±3dgt 601 to 1000A ±3.0%rdg±3dgt	
	Frequency	1Hz to 1kHz	±0.2%rdg±2dgt
AC / DC V / V Hz · %	AC Voltage	4V	±1.0%rdg±5dgt (40Hz to 400Hz)
		40V	
		400V	
	DC Voltage	400mV	±1.0%rdg±3dgt
		4V	
		40V	
Frequency	1Hz to 49.99kHz	±0.2%rdg±2dgt	
	Duty Cycle	10% to 90%	±2.0%rdg±2dgt
Resistance	400Ω	±1.5%rdg±5dgt	
	4kΩ	±1.0%rdg±3dgt	
	40kΩ		
	400kΩ		
	4MΩ	±4.0%rdg±5dgt	
40MΩ	±6.0%rdg±5dgt		
Other Measurements	Continuity Test, Diode Test, Capacitance		
Functions	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 / SK-7722

FEATURES

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

OPTIONAL ACCESSORIES

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

SPECIFICATIONS

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

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

Multi-Functional Clamp Meter with Quadruple Display

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multitesters

Automotive Testers

Other Testers

Accessories



AC/DC 2000A AC/DC V Ω Hz ()) (→) DUTY % °C PULSE WIDTH

PEAK HOLD AVE RAGE MAX MIN DIFF OUT PUT RING HOLD DISP HOLD APS TRUE RMS Dust Proof Simple Water Resistant

SK-7706

FEATURES

- Relevant Measurement Items are Displayed while Current and Voltage Measurements.
- Connectable to Oscilloscopes or Recorders.
- Dust-proof case is used to protect the tester from dust damage.
- High-speed sampling, 1000 times / sec.

SPECIFICATIONS

Display : 4000 count LCD,
Maximum reading 9999

Sampling Rate : 1000 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)
830 Output Cable
1007 Carrying Case (x 1)
9V 6F22 Battery (x 1)

		Range	Accuracy		
A + V	DC Current	400A	± 1.5%rdg ± 3dgt		
		2000A			
A + V	DC Voltage	40V	± 1.0%rdg ± 3dgt		
		400V			
		600V			
A + Hz	AC Current	400A	± 1.5%rdg ± 3dgt		
		2000A			
		Frequency		10Hz to 25kHz	± 0.2%rdg ± 2dgt
		Duty Cycle		1% to 99%	± 5.0%rdg ± 2dgt
A + Hz	Pulse Width	0.1mS to 100mS	± 5.0%rdg ± 2dgt		
V + Hz	AC Voltage	40V	± 1.5%rdg ± 3dgt		
		400V			
		600V			
		Frequency		10Hz to 25kHz	± 0.2%rdg ± 2dgt
V + Hz	Duty Cycle	1% to 99%	± 5.0%rdg ± 2dgt		
		Pulse Width	0.1mS to 100mS	± 5.0%rdg ± 2dgt	
Resistance		4kΩ	± 1.0%rdg ± 2dgt		
		40kΩ			
Temperature		-25°C to 150°C	± 2°C		
Other Measurements		Continuity Test, Diode Test			
Functions		MAX / MIN, Average, Peak Hold, Difference, Output Terminal, Range Hold, Display Hold, Auto Power Save			

OPTIONAL ACCESSORIES

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

Powerful for Every Measurement



AC/DC 2000A AC/DC V Ω Hz ()) (→) DUTY % (←)

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

SK-7708 for DC Current measurement SK-7708

SK-7707/SK-7708

FEATURES

- "Power-On Initialize" (auto zero adjustment) for DCA.
- Peak Hold (SK-7708), MAX / MIN measurements.
- Dust-proof case is used to protect the tester from dust damage.

OPTIONAL ACCESSORIES

- 880 Line Separator
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 940 Alligator Clips
- 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	
A + V	AC Current	400A	50Hz to 60Hz ± 1.5%rdg ± 5dgt	
		2000A	40Hz to 1kHz ± 3.0%rdg ± 5dgt	
		1001A or more	± 3.0%rdg ± 5dgt	
A + Hz	DC Current	400A	± 1.5%rdg ± 5dgt	
		2000A		
		Frequency	1Hz to 4.999kHz	± 0.2%rdg ± 2dgt
V + V	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	
		Frequency	1Hz to 100kHz	± 0.2%rdg ± 2dgt
		Duty Cycle	0.1% to 99.9%	± 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	
Other Measurements		Continuity Test, Diode Test, Capacitance		
Functions		MAX / MIN, Peak Hold (SK-7708), Difference, Power-on Initialize (for DC Current measurement), Range Hold, Display Hold, Auto Power Save		

Pocket-sized Clamp Meter



AC 200A DISP HOLD APO

SK-7600

FEATURES

- One-touch operation.
- Strong and beaked Clamp Head against twists.
- AUTO POWER OFF : turns off automatically after 10 minutes.
- Full Auto Ranging up to 200A AC.
- DISPLAY HOLD Function.
- With Carrying Case and spare Battery.

OPTIONAL ACCESSORY

880 Line Separator

SPECIFICATIONS

Display : 4000 count LCD,
Maximum reading 4301
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 20(D)mm
Weight : 110g
Accessories : 1004 Carrying Case (x 1)
3V CR2032 Battery (x 1 & spare)

	Range	Accuracy
AC Current	40A	$\pm 1.8\%rdg \pm 5dgt$
	200A	
Functions	Display Hold, Auto Power OFF	

Multi-functional Handy Clamp with Long Battery Life



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

SK-7602 / 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	
\sim / Hz	AC Current	$\pm 1.5\%rdg \pm 5dgt$ (50Hz/60Hz)	
	Frequency	$\pm 3.0\%rdg \pm 5dgt$ (40Hz to 400Hz)	
$\bar{\sim}$ / \sim / Hz / %	DC Voltage	$\pm 1.0\%rdg \pm 2dgt$	
	AC Voltage	400mV	$\pm 1.0\%rdg \pm 3dgt$
		4V	$\pm 1.5\%rdg \pm 5dgt$ (40Hz to 400Hz)
		40V	
Frequency	$\pm 0.2\%rdg \pm 2dgt$		
Resistance	Duty Cycle	$\pm 2.0\%rdg \pm 3dgt$	
	400 Ω	$\pm 1.5\%rdg \pm 5dgt$	
	4k Ω	$\pm 0.7\%rdg \pm 3dgt$	
	40k Ω		
400k Ω	$\pm 1.2\%rdg \pm 5dgt$		
4M Ω			
40M Ω	$\pm 3.0\%rdg \pm 5dgt$		
Other Measurements	Continuity Test, Diode Test, Capacitance		
Functions	MAX / MIN, Difference, Display Hold, Auto Power OFF		

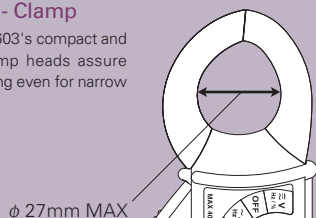
OPTIONAL ACCESSORIES

880 Line Separator
940 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.



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

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multitesters

Automotive Testers

Other Testers

Accessories



Conductor Diameter
φ26mm

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

OPTIONAL ACCESSORIES

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

High Quality Clamp Meter that contains DMM functions



Conductor Diameter
φ42mm

AC 600A AC/DC V Ω Hz DISP HOLD APO

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

OPTIONAL ACCESSORIES

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

High-Valued Clamp Meter



Conductor Diameter
φ55mm

AC 2000A AC/DC V Ω Hz % DISP HOLD APO MAX MIN DIFF RING HOLD TRUE RMS Dust Proof Simple Water Resistant

SK-7640

FEATURES

- Auto ranging with Range Hold Function.
- Easy to Clamp by Beaked Clamp Head.
- Dust-proof case is used to protect the tester from dust damage.

SPECIFICATIONS

Display : 4000 count LCD, Maximum reading 4999
 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 : 470g
 Accessories : 100-57 Test Leads (x 1 set)
 1007 Carrying Case (x 1)
 9V 6F22 Battery (x 1)

	Range	Accuracy
AC Current ~ A Hz %	400A	0 to 600A ±1.5%rdg±5dgt (50Hz/60Hz) ±3%rdg±5dgt (40Hz to 1kHz)
	2000A	0 to 1000A ±1.5%rdg±5dgt (50Hz/60Hz) ±3%rdg±5dgt (40Hz to 1kHz)
	1001A or more	±3%rdg±5dgt (50Hz/60Hz)
AC Voltage ~ V / ~ V Hz %	4V	±1.5%rdg±5dgt ±3%rdg±5dgt (40Hz to 400Hz) (401Hz to 1kHz)
	40V	
	400V	
	600V	
DC Voltage	400mV	±1.2%rdg±3dgt
	4V	
	40V	
	400V	
Resistance	400Ω	±1.5%rdg±5dgt
	4kΩ	
	40kΩ	
	400kΩ	
Other Measurements	4MΩ	±3.0%rdg±4dgt
	40MΩ	±5.0%rdg±7dgt
	Frequency, Duty Cycle, Continuity Test, Diode Test, Capacitance	
Functions	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save	

OPTIONAL ACCESSORIES

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

Leakage Clamp with Comparator



AC 60A
 MAX MIN COMP LPF DISP HOLD APO OUT PUT
 SK-7810

SK-7810/SK-7815

FEATURES

- Easy to read LCD.
- Comparator : 1mA to 20mA setting. Buzzer sounds when measured value exceeds the set point.
- Max / Min Measurement.
- Analog output for recorders. (SK-7810)
- Low Pass Filter cuts off frequencies higher than 150Hz.
- Display Hold & Auto Power Save.
- Power Hold enables longer measurements.
- CE Mark is approved, EMC and LVD (IEC-1010-1) passed.

SPECIFICATIONS

Display : 3200 count LCD, Maximum reading 3200
 Sampling Rate : 2 times / sec
 Range Selection : Manual (SK-7810), Auto (SK-7815)
 Conductor Diameter : ϕ 30mm Max.
 Power Supply : 1.5V R6P or AA Batteries (x 2)
 CE Mark : CAT III 300V and EMC
 Dimensions : 212(H) x 42(W) x 30(D) mm
 Weight : 220g
 Accessories : 100-32 Test Leads (x 1 set, for SK-7815)
 1011 Carrying Case (x 1)
 1.5V R6P Batteries (x 2)

OPTIONAL ACCESSORIES

- 880 Line Separator
- 100-41 Test Lead Kit
- 100-62 Test Lead Set
- 940 Alligator Clips
- 793 Coil-Type Contact Pin
- 932 Output Cord for Recorder (SK-7810)

SK-7810		
	Range	Accuracy
AC Current	30mA	$\pm 1.0\%rdg \pm 5dgt$
	300mA	$\pm 1.0\%rdg \pm 5dgt$
	60A	0A to 50A $\pm 1.0\%rdg \pm 5dgt$ 50.01A to 60.0A $\pm 5.0\%rdg \pm 5dgt$
Functions	Output Terminal, MAX / MIN, Comparator (up to 20mA), Low pass filter, Display Hold, Auto Power Save	

SK-7815		
	Range	Accuracy
AC Current	30mA	$\pm 1.0\%rdg \pm 5dgt$
	300mA	$\pm 1.0\%rdg \pm 5dgt$
	30A	$\pm 1.5\%rdg \pm 5dgt$
	60A	0A to 27.0A $\pm 1.5\%rdg \pm 5dgt$ 27.1A to 50.00A $\pm 2.0\%rdg \pm 5dgt$ 50.1A to 60.0A $\pm 5.0\%rdg \pm 5dgt$
AC Voltage	300V / 600V	$\pm 2.0\%rdg \pm 5dgt$
Functions	MAX / MIN, Comparator (up to 20mA), Low pass filter, Display Hold, Auto Power Save	

The World's First Vibration Alert Comparator Installed Clamps

AC 100A AC V
 COMP LPF DISP HOLD APO
 Conductor Diameter ϕ 24mm SK-7820
 Conductor Diameter ϕ 40mm SK-7825

SK-7820/SK-7825

FEATURES

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

OPTIONAL ACCESSORIES

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

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: ϕ 24mm Max., SK-7825: ϕ 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 $\pm 1.0\%rdg \pm 5dgt$	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

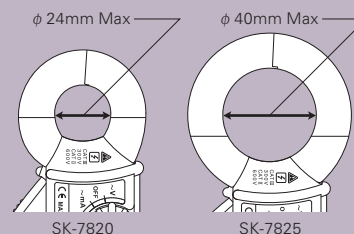
Vibration Alert Comparator

SK-7820 / 7825 incorporate Comparator Function in ~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

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

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

Digital Insulation Testers

Compact, But Powerfull. Versatile 4-Range Insulation Tester



SK-3500		SK-3502				LOW Ω	AC/DC V
50V 200MΩ	125V 200MΩ	250V 2000MΩ	500V 2000MΩ	1000V 2000MΩ			
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 P6P Batteries (x 8)
 Spare Fuse F22 (0.5A / 600V) x 1 (built-in)

OPTIONAL ACCESSORIES

766B Black Test Prod
 (with 767 Test Pin)
 940R 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	Accuracy	±5%rdg±5dgt		±5%rdg±5dgt		±5%rdg±5dgt		±5%rdg±5dgt	
	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	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								

Analog Insulation Testers

Multi-Functional Insulation Testers

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

SK-3000/SK-3002/SK-3003

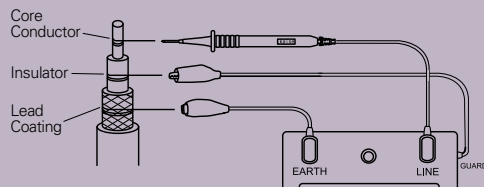
SPECIFICATIONS

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), Test Pin (x 1)
 978 Carrying Case (x 1), 1.5V R6P Batteries (x 8)

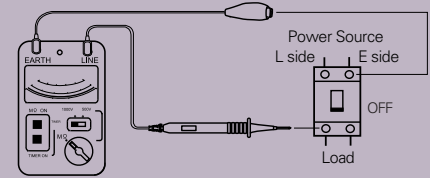
		SK-3000		SK-3002		SK-3003			
		100V	250V	250V	500V	500V	1000V	1000V	
Insulation Resistance	Rated Test Voltage (DC)	100V	250V	250V	500V	500V	1000V	1000V	
	Max. Effective Reading	200MΩ	500MΩ	50MΩ	100MΩ	100MΩ	1000MΩ	2000MΩ	
	Effective range	0.1 to 200MΩ	0.5 to 500MΩ	0.05 to 50MΩ	0.1 to 100MΩ	1 to 1000MΩ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



How to measure Volume Resistance



Insulation Resistance Measurements



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

Analog Insulation Testers

All-in-one Insulation Tester with Safety Functions



SK-3010



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

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

FEATURES

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

OPTIONAL ACCESSORIES

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

SPECIFICATIONS

- Power Supply : 1.5V R6P or AA Batteries (x 6)
- Fuse : F23 (1A / 600V) x 1
- CE Mark : CAT III 600V and EMC
- Dimensions : 169(H) x 148(W) x 50(D) mm
- Weight : 570g
- Accessories : 100-40-2 Test Leads (x 1 set)
- 942B Black Alligator Clip (x 1)
- 766R Red Test Prod (x 1, with 767R Test Pin)
- 1.5V P6P Batteries (x 6)
- Spare Fuse F23 (1A / 600V) x 1

		SK-3010		SK-3012		SK-3013		SK-3016		SK-3320		
Insulation Resistance	Rated Test Voltage (DC)	50V	125V	250V	500V	500V	1000V	500V	1000V	250V	500V	1000V
	Max. Effective Reading	10MΩ	20MΩ	50MΩ	100MΩ	1000MΩ	2000MΩ	100MΩ	200MΩ	50MΩ	100MΩ	2000MΩ
	Effective range	0.005 to 10MΩ	0.01 to 20MΩ	0.01 to 50MΩ	0.05 to 100MΩ	0.5 to 1000MΩ	1 to 2000MΩ	0.05 to 100MΩ	0.1 to 200MΩ	0.01 to 50MΩ	0.05 to 100MΩ	1 to 2000MΩ
	Center Scale	0.2MΩ	0.5MΩ	1MΩ	2MΩ	20MΩ	50MΩ	2MΩ	5MΩ	1MΩ	2MΩ	50MΩ
	Allowable Voltage at no load	less than 1.3 times of Rated Voltage										
Rated Measuring Current	1mA to 1.2mA											
Shorted Current	less than 2mA											
Accuracy	First effective range : ±5% of reading value Second effective range : ±10% of reading value The other area of scale : ±0.7% of scale length											
AC Voltage	Range	0 to 300V		0 to 600V								
	Accuracy	±3% of full scale value										
Low Resistance	Range	—		—		—		2Ω/20Ω (OpenV, ≥5V, M.C.200mA)		—		
	Accuracy	±3% full scale length										
Continuity Test	Continuity Test	—		—		—		—		—		
	Timer	Approx. 3 minutes										
Battery Check	Battery Check	by Battery Scale on BATT. CHECK position										
Functions	Functions	Live wire warning, High voltage warning, Automatic discharge										

Earth Tester

Automatic Earth Tester



SK-3710

FEATURES

- VOLTAGE DROP SYSTEM enables the SK-3710 to measure EARTH RESISTANCE automatically with one press of POWER Switch only.
- Simple Measurements are available by shorting P terminal and C terminal with attached cord.
- Taut Band Meter Movement of Drop-proof and Internal Core Magnet type minimizes outside magnetic influence and assures trouble-free performance.
- CE Mark is approved with EMCD and LVD (IEC 1010-1) passed.

SPECIFICATIONS

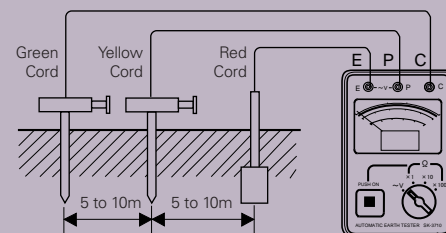
- Power Supply : 1.5V R6P or AA Batteries (x 8)
- Dimensions : 165(H) x 100(W) x 72(D) mm
- Weight : 550g
- Accessories : 770 Measuring Cords (x 1 set)
(5m, 10m, 20m, Single Measuring Cord)
- 775 Auxiliary Earthing Rods (x 1 set)
- 776 Sack for Accessories (x 1)
- 988 Carrying Case (x 1)
- 1.5V R6P Batteries (x 8)

OPTIONAL ACCESSORIES

- 771 Measuring Cord (40m)
- 777 Two Auxiliary Earthing Sheets





Range and Voltage	A. Earth Resistance Range : 10Ω / 100Ω / 1000Ω B. Earth Voltage : 30V
Accuracy (20°C)	A. Earth Resistance : ±5% of full scale value 1. Effect of Earth Voltage : Less than ±5% of reading value when earth voltage is 5V 2. Effect of Auxiliary Earthing Resistance : ±10% of reading value when Auxiliary Earthing Resistance is 5kΩ 3. Other : In accordance with JIS C-1304 B. Earth Voltage : ±3% of full scale value
Measuring System	The deflection method of Voltage Drop System is adopted.
Battery Check	by POWER / BATT LED Lamp

Basic Measurement



Do not fail to confirm that the value of AUXILIARY EARTH RESISTANCE is less than 5kΩ.
If AUXILIARY EARTH RODS cannot be inserted (for example, concrete), use optional AUXILIARY EARTH SHEET.

Digital Multimeters Index

				
Model	KU-2602	SK-6161	SK-6163	SK-6150
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	1000V	1000V	1000V
	—	—	—	—
AC Voltage	400mV	4V	4V	400mV
	4V	40V	40V	4V
	40V	400V	400V	40V
	400V	750V	750V	400V
	600V	—	—	750V
	—	—	—	—
DC Current	400 μ A	40mA	400 μ A	400mA
	4000 μ A	400mA	4000 μ A	20A
	40mA	4A	40mA	—
	400mA	20A	400mA	—
	4A	—	4A	—
	10A	—	20A	—
AC Current	400 μ A	40mA	400 μ A	400mA
	4000 μ A	400mA	4000 μ A	20A
	40mA	4A	40mA	—
	400mA	20A	400mA	—
	4A	—	4A	—
	10A	—	20A	—
Resistance	400 Ω	400 Ω	400 Ω	400 Ω
	4k Ω	4k Ω	4k Ω	4k Ω
	40k Ω	40k Ω	40k Ω	40k Ω
	400k Ω	400k Ω	400k Ω	400k Ω
	4M Ω	4M Ω	4M Ω	4M Ω
	40M Ω	40M Ω	40M Ω	40M Ω
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	—	—	—	●
Auto Power Save (Off)	●	●	●	●

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters






Analog Multimeters

Automotive Testers

Other Testers

Accessories

Digital Multimeters Index

					
Model	SK-6500	SK-6555	SK-6592	SK-4033	SK-4035
Display Counts	2000	4000	4000	4000	4000
Bargraph	—	—	—	—	—
DC Voltage	200mV	400mV	400mV	400mV	400mV
	2V	4.0V	4.0V	4V	4V
	20V	40V	40V	40V	40V
	200V	400V	400V	400V	400V
	600V	600V	600V	600V	600V
	—	—	—	—	—
AC Voltage	2V	4.0V	4.0V	400mV	400mV
	20V	40V	40V	4V	4V
	200V	400V	400V	40V	40V
	600V	600V	600V	400V	400V
	—	—	—	600V	600V
	—	—	—	—	—
DC Current	—	—	—	400 μ A	400 μ A
	—	—	—	4000 μ A	4000 μ A
	—	—	—	40mA	40mA
	—	—	—	400mA	400mA
	—	—	—	10A	10A
	—	—	—	—	—
AC Current	—	—	—	400 μ A	400 μ A
	—	—	—	4000 μ A	4000 μ A
	—	—	—	40mA	40mA
	—	—	—	400mA	400mA
	—	—	—	10A	10A
	—	—	—	—	—
Resistance	200 Ω	400 Ω	400 Ω	400 Ω	400 Ω
	2k Ω	4.0k Ω	4.0k Ω	4k Ω	4k Ω
	20k Ω	40k Ω	40k Ω	40k Ω	40k Ω
	200k Ω	400k Ω	400k Ω	400k Ω	400k Ω
	2M Ω	4.0M Ω	4.0M Ω	4M Ω	4M Ω
	20M Ω	40M Ω	40M Ω	40M Ω	40M Ω
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	—	—	—	—	—
Auto Power Save (Off)	●	●	●	—	—

High Cost Performance, Temperature Measurement



NEW KU-2602



FEATURES

- Temperature Measurement. (Temperature Probe is provided)
- 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)
 CE Mark : CAT II 600V, CAT III 300V compliant
 Fuse : F14 (0.5A / 250V) x 1
 F17 (10A / 250V) x 1
 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)
 1.5V R6P Batteries (x2 & spare)
 Spare Fuses F14 (0.5A/250V),
 F17 (10A/250V), x 1 each

OPTIONAL ACCESSORIES

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

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	±0.5%rdg±5dgt	>100MΩ
	4V	1mV		≒11MΩ
	40V	10mV	±0.8%rdg±5dgt	≒10MΩ
	400V	100mV		
	600V	1V		
AC Voltage	400mV	0.1mV	±1.2%rdg±5dgt	≒11MΩ
	4V	1mV	±0.8%rdg±5dgt	≒10MΩ
	40V	10mV		
	400V	100mV		
	600V	1V		
DC Current	Range	Resolution	Accuracy	Voltage Drop
	400μA/4000μA	0.1μA/1μA	±1.5%rdg±5dgt	40mV/400mV
AC Current	Range	Resolution	Accuracy	Test Current
	400μA/4000μA	0.1μA/1μA	±2.0%rdg±5dgt	≤0.3mA
Resistance	400Ω	0.1Ω	±1.0%rdg±5dgt	≤40μA
	4kΩ	1Ω		≤4μA
	40kΩ	10Ω		≤0.4μA
	400kΩ	100Ω		≤40nA
	4MΩ	1kΩ		
Temperature	Range	Resolution	Accuracy	Sensor
	0°C to 40°C	1°C	±0.75%rdg±3°C	Built-in
Other Measurements	Frequency, Duty Cycle, Current by Clamp Adapter, Continuity Test, Diode Test, Capacitance			External
	Difference, Range Hold, Display Hold, Auto Power Off, Reset			

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



NEW SK-6161 / **NEW** SK-6163



SK-6161



SK-6163

FEATURES

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

SPECIFICATIONS

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

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	±0.5%rdg±2dgt	>100MΩ
	4V	1mV	±0.5%rdg±1dgt	≒11MΩ
	40/400/1000V	10m/100m/1V	±1%rdg±5dgt	≒10MΩ
AC Voltage	4V	1mV	±1%rdg±5dgt	≒11MΩ
	40/400/750V	10m/100m/1V		≒10MΩ
DC Current	Range	Resolution	Accuracy	Voltage Drop
	400μ/4000μA*	0.1 μ / 1 μ A	±1%rdg±1dgt	0.11mV/μA
AC Current	40m/400mA	0.01m/0.1mA	±1%rdg±1dgt	2mV/mA
	4A	1mA	±1.5%rdg±2dgt	30mV/A
DC Current	20A	10mA	0~10.00A ±1.5%rdg±2dgt 10.01~20.00A ±2.5%rdg±4dgt	30mV/A
	400μ/4000μA*	0.1 μ / 1 μ A	±1.5%rdg±5dgt	0.11mV/μA
AC Current	40m/400mA	0.01m/0.1mA	±1.5%rdg±5dgt	2mV/mA
	4A	1mA	±2%rdg±7dgt	30mV/A
DC Current	20A	10mA	0~10.00A ±2%rdg±7dgt 10.01~20.00A ±3%rdg±7dgt	30mV/A
	Range	Resolution	Accuracy	Test Current
Resistance	400Ω	0.1Ω	±0.8%rdg±3dgt	≤0.3mA
	4kΩ	1Ω	±0.8%rdg±2dgt	≤40μA
	40kΩ	10Ω		≤4μA
	400kΩ	100Ω		≤0.4μA
	4MΩ	1kΩ		≤40nA
40MΩ	10kΩ			
Other Measurements	Frequency, Duty Cycle, Current by Clamp Adapter, Continuity Test, Diode Test, Capacitance (SK-6163)			
	Difference (SK-6163), Range Hold, Display Hold (SK-6163), Auto Power Save			

Advantages of SK-6161/ 6163

Easy-to-read large LCD

Colored range switch for easy operation



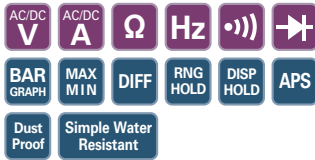
OPTIONAL ACCESSORIES

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

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

Digital Multimeters (Handy Type)

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) 2 times / sec
(Bargraph) 20 times / sec

Range Selection : Auto / Manual Ranging

Power Supply : 1.5V R6P or AA Batteries (x 2)

Fuse : F26 (1A / 600V) x 1, F25 (15A / 600V) x 1

Dimensions : 180(H) x 86(W) x 35(D) mm

Weight : 320g

Accessories : 100-57 Test Leads (x 1 set)
1.5V R6P Batteries (x 2)

OPTIONAL ACCESSORIES

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

	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
	400V	100mV		
	1000V	1V		
AC Voltage	400mV	100 μV	±2.0%rdg±7dgt	≥100MΩ
	4V	1mV		≈11MΩ
	40V	10mV	±1.5%rdg±5dgt	≈10MΩ
	400V	100mV		
	750V	1V		
DC Current	400mA	100 μA	±1.2%rdg±2dgt	Voltage Drop 400mV
	20A	10mA	0 to 10.00A ±2.0%rdg±2dgt 10.01 to 20A ±2.5%rdg±4dgt	350mV (10A)
AC Current	400mA	100 μA	±2.5%rdg±5dgt	400mV
	20A	10mA	0 to 10.00A ±2.5%rdg±5dgt 10.01 to 20A ±3.0%rdg±10dgt	350mV (10A)
Resistance	400Ω	100mΩ	±1.0%rdg±2dgt	≤0.5mA
	4kΩ	1Ω		≤0.2mA
	40kΩ	10Ω	±0.7%rdg±2dgt	≤40 μA
	400kΩ	100Ω		≤4 μA
	4MΩ	1kΩ		≤0.4 μA
	40MΩ	10kΩ	±2.0%rdg±2dgt	≤40nA
Open Circuit Voltage : ≤0.4V				
Other Measurements	Frequency, Continuity Test, Diode Test, Current (400A AC / DC) by Clamp Adapter			
Functions	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save			

Digital Multimeters (Card-Type DMM)

Simple & Easy



SK-6500

FEATURES

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

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), Note-book type Carrying Case

OPTIONAL ACCESSORY

940 Alligator Clips 793 Coil-Type Contact Pin

	Range	Resolution	Accuracy	Input Impedance
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	200Ω	0.1Ω	±2.0%rdg±4dgt	≤1mA
	2kΩ	1Ω		≤0.3mA
	20kΩ	10Ω		≤40 μA
	200kΩ	100Ω	±5.0%rdg±4dgt	≤4 μA
	2MΩ	1kΩ		≤0.4 μA
	20MΩ	10kΩ		≤0.04 μA
	Open Circuit Voltage : ≤0.45V			
Other Measurements	Diode Test, Continuity Test			
Functions	Display Hold, Auto Power Off			

Digital Multimeters (All-in-one DMM)

High-Precision DMM



SK-6555

FEATURES

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

SPECIFICATIONS

Display : 4000 count LCD

Sampling Rate : 3 times / sec

Range Selection : Auto / Manual Ranging

Power Supply : 3V CR2032 Battery (x 1)

CE Mark : CAT III 300V and EMC

Dimensions : 118(H) x 78(W) x 16(D) mm

Weight : 110g

Accessories : 3V CR2032 Battery (x 1)

OPTIONAL ACCESSORY

940 Alligator Clips
793 Coil-Type Contact Pin

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 μV	±0.5%rdg±3dgt	≥100MΩ
	4.0V	1mV		≈11MΩ
	40V	10mV	±1.0%rdg±3dgt	≈10MΩ
	400V/600V	100mV/1V		
	4.0V	1mV		
AC Voltage	40V/400V	10mV/100mV	±1.5%rdg±5dgt	≈11MΩ
	600V	1V		≈10MΩ
Resistance	400Ω	0.1Ω	±1.5%rdg±4dgt	≤0.2mA
	4.0kΩ	1Ω		≤50 μA
	40kΩ	10Ω		≤5 μA
	400kΩ	100Ω	±1.0%rdg±3dgt	≤0.5 μA
	4.0MΩ	1kΩ		≤50nA
	40MΩ	10kΩ		±7.0%rdg±3dgt
	Open Circuit Voltage : ≈0.44V			
Other Measurements	Frequency, Duty Cycle, Continuity Test, Diode Test, Capacitance			
Functions	MAX / MIN, Difference, Range Hold, Display Hold, Auto Power Save			

Digital Multimeters (Probe Tester)

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.

OPTIONAL ACCESSORIES

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

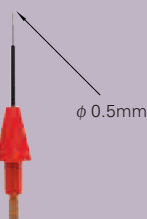
SPECIFICATIONS

- 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)



Extra fine test pin only ϕ 0.5mm dia.

MODEL 792R Red Straight Test Pin (Optional Accessories)



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.

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	100 μ V	$\pm 0.5\%rdg \pm 3dgt$	$\geq 100M\Omega$
	4.0V	1mV		$\approx 11M\Omega$
	40V	10mV		$\approx 10M\Omega$
	400V/600V	100mV/1V		$\pm 1.0\%rdg \pm 3dgt$
AC Voltage	4.0V	1mV	$\pm 1.5\%rdg \pm 5dgt$	$\approx 11M\Omega$
	40V/400V	10mV/100mV		$\approx 10M\Omega$
	600V	1V		
Resistance	Range	Resolution	Accuracy	Test Current
	400 Ω	0.1 Ω	$\pm 1.5\%rdg \pm 4dgt$	$\leq 0.2mA$
	4.0k Ω	1 Ω	$\pm 1.0\%rdg \pm 3dgt$	$\leq 50\mu A$
	40k Ω	10 Ω		$\leq 5\mu A$
	400k Ω	100 Ω		$\leq 0.5\mu A$
	4.0M Ω	1k Ω	$\pm 5.0\%rdg \pm 3dgt$	$\leq 50nA$
	40M Ω	10k Ω	$\pm 7.0\%rdg \pm 3dgt$	
Open Circuit Voltage : $\approx 0.44V$				
Other Measurements	Frequency, Duty Cycle, Continuity Test, Diode Test, Capacitance			
Functions	MAX / MIN, Difference, Display Hold, Auto Power Off			

Digital Multimeters (Bench-Top DMM)

Bench-Type DMM with Output Terminals



NEW SK-4033 / NEW SK-4035



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

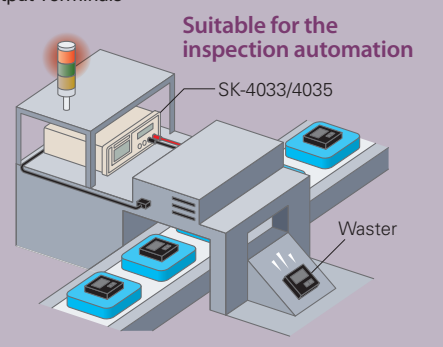
- Display : 4000 count LCD
- Sampling Rate : 10 times / sec
- Range Selection : Auto / Manual Ranging
- Power Supply : AC adapter
- Fuse : F29 (3A/600V) x 1, F30 (10A/600V) x 1
F31 (0.5A/250V) x 2
- Dimensions : 95(H) x 200(W) x 260(D) mm,
- Weight : 1,140g
- Accessories : 100-57 Test Leads (x 1 set),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

OPTIONAL ACCESSORIES


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

	Range	Resolution	Accuracy	Input Impedance
DC Voltage	400mV	0.1mV	$\pm 0.3\%rdg \pm 2dgt$	$\geq 100M\Omega$
	4V	1mV		$\approx 11M\Omega$
	40/400/600V	10mV/100mV/1V		$\approx 10M\Omega$
AC Voltage	400mV	0.1mV	$\pm 1.0\%rdg \pm 5dgt$ (50Hz~500Hz)	$> 100M\Omega$
	4V	1mV		$\approx 11M\Omega$
	40/400/600V	10mV/100mV/1V		$\approx 10M\Omega$
DC Current	Range	Resolution	Accuracy	Voltage Drop
	400 μ A/4000 μ A	0.1 μ A/1 μ A	$\pm 0.75\%rdg \pm 2dgt$	$< 0.05V / < 0.25V$
	40mA	10 μ A		$< 0.1V$
	400mA	100 μ A	$\pm 1.5\%rdg \pm 2dgt$	$< 0.6V$
10A	10mA	$< 0.5V$		
AC Current	Range	Resolution	Accuracy	Voltage Drop
	400 μ A/4000 μ A	0.1 μ A/1 μ A	$\pm 1.5\%rdg \pm 6dgt$ (50Hz~500Hz)	$< 0.05V / < 0.25V$
	40mA	10 μ A		$< 0.1V$
	400mA	100 μ A	$< 0.6V$	
10A	10mA	$< 0.5V$		
Resistance	Range	Resolution	Accuracy	Open Circuit Voltage
	400 Ω	0.1 Ω	$\pm 0.3\%rdg \pm 3dgt$	2.4V
	4k Ω	1 Ω	$\pm 0.3\%rdg \pm 2dgt$	1.2V
	40k Ω	10 Ω		
	400k Ω	100 Ω		
4M Ω	1k Ω	$\pm 1\%rdg \pm 2dgt$		
40M Ω	10k Ω	$\pm 3\%rdg \pm 4dgt$		
Functions	Comparator, Range Hold			

Output Terminals



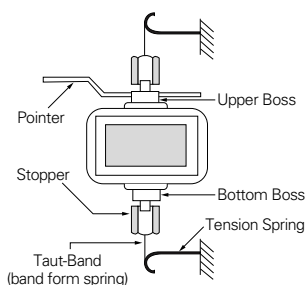
Analog Multitesters Index

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

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

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

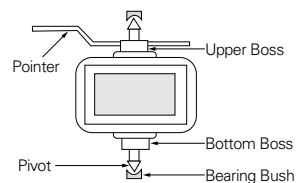
Taut-band Meter



Taut-Band method, suitable for highly sensitive meter, has strong shock resistant and frictionless structure that can keep the meter accuracy always stable.

In this method, moving coil is supported by upper and bottom taut-bands applying high tension from both side. To maintain drop-proof structure, taut-bands are protected by two stoppers from strong mechanical shock.

Pivot Meter



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

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



AC/DC V DC A AC Ω (buzzer) dB °C Drop Proof

SK-355

SPECIFICATIONS

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

OPTIONAL ACCESSORIES

810-02 Temperature Probe 940 Alligator Clips
 100-41 Test Lead Kit 976 Carrying Case
 100-62 Test Lead Set 793 Coil-Type Contact Pin

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

*Optional temperature probe (810-02) is necessary for temperature measurement.

DC 12A measurement



AC/DC V DC A Ω (buzzer) °C

NEW KF-32

FEATURES

- DC 12A measurement.
- Temperature measurement (optional temperature probe is necessary)

SPECIFICATIONS

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

	Range	Internal Resistance	Tolerance
DC Voltage	0.3 / 3 / 12 / 30 / 120 / 300 / 1200V	20kΩ/V	±3% f.s.
AC Voltage	12 / 30 / 120 / 300 / 1200V	10kΩ/V	±4% f.s.
DC Current	60 μ / 3m / 30m / 600m / 12A		±3% f.s.
Resistance	5k / 500k / 5MΩ (×1 / ×100 / ×1k)		±3% f.s. length
Other Measurements	Temperature : -50°C to +250°C 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 temperature probe (810-02) is necessary for temperature measurement.

OPTIONAL ACCESSORIES

810-02 Temperature Probe 940 Alligator Clips
 100-41 Test Lead Kit 793 Coil-Type Contact Pin
 100-62 Test Lead Set

Advantages of KF-32

Temperature measurement
 Temperature can be measured by using optional temperature probe.



MODEL 810-02

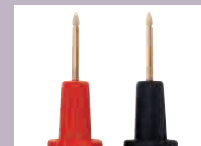
DC12A Ranges
 Big current can be measured in DC 12A range.

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



AC/DC V DC A Ω °C BATT. TEST

KF-20

SPECIFICATIONS

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




OPTIONAL ACCESSORIES

810-02 Temperature Probe 940 Alligator Clips
 100-41 Test Lead Kit 793 Coil-Type Contact Pin
 100-62 Test Lead Set

	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
Other Measurements	Battery Test : 1.5V (R20P / R14P / R6P) 1.5V 250mA (Hi Range) 1.5V 50mA (Low Range) Temperature : -50°C to +250°C (±3% f.s. length)		

*Optional temperature probe (810-02) is necessary for temperature measurement.

Automotive Testers Index (Digital Multimeters)

			
Model	KT-2020	SK-6166	SK-6167
Display Counts	9999	2000	2000
Bargraph	●	—	—
DC Voltage	999.9mV 9.999V 99.99V 600V —	200mV 2V 20V 200V 300V	2V 20V 200V 300V —
AC Voltage	999.9mV 9.999V 99.99V 600V	2V 20V 200V 300V	2V 20V 200V 300V
DC Current	4000mA 10A	20mA 20A	30A —
AC Current	4000mA 10A	20mA 20A	30A —
Resistance	999.9Ω 9.999kΩ 99.99kΩ 999.9kΩ 4MΩ 40MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 20MΩ	200Ω 2kΩ 20kΩ 200kΩ 2MΩ 20MΩ
Frequency	●	—	—
Duty Cycle	●	—	—
Pulse Width	●	—	—
Continuity Test	●	●	●
Diode Test	●	●	—
Temperature	●	—	●
Revolutions Per Minute	●	●	●
Dwell Angle	●	—	●
Auto Ranging	●	●	●
Manual Ranging	●	●	●
MAX / MIN	●	—	—
Average	●	—	—
Range Hold	●	●	●
Difference	●	—	—
Display Hold	●	●	●
Current by Clamp Adapter	●	●	●
Dust Proof & Simple Water Resistant	●	—	—
Auto Power Save (Off)	●	●	●

Clamp Meters

Insulation Testers / Earth Tester

Digital Multimeters

Analog Multimeters

Automotive Testers

Other Testers

Accessories

Extremely versatile Automotive Digital Multimeter



NEW KT-2020

FEATURES

- Battery voltage measurement / rpm measurement (except for rotary engine, diesel engine, and vehicle equipped with MSD or MDI systems.) / Injection pulse width measurement / Car alternator's charging current measurement (optional clamp adapter is necessary) / Sensor measurement / Air conditioner outlet temperature measurement, etc.
- MAX/MIN and Average Measurements.
- Bar Graph Display.

SPECIFICATIONS

- Display : 9999 count LCD
- Sampling Rate : (Numerical) 4 times / sec
(Bargraph) 20 times / sec
- Range Selection : Auto / Manual Ranging
- Power Supply : 9V 6F22 or NEDA 1604 Battery (x 1)
- Fuse : F17(10A/250V) x 1
- Dimensions : 150(H) x 75(W) x 34(D) mm,
- Weight : 252g
- Accessories : Holster, 100-46 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
9V 6F22 Battery (Installed) x 1
F17 Spare Fuse (10A/250V) x 1

OPTIONAL ACCESSORIES

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



Equipped with an Useful Carrying Case

Easy-to-carry plastic carrying case enables to pack KT-2020 and the all accessories together.



	Range	Resolution	Accuracy	Input Impedance
DC Voltage	999.9mV	100 μV	±0.3%rdg±3dgt	≧16MΩ
	9.999V	1mV		≧10MΩ, 30pF
	99.99V	10mV		
	600V	100mV		
AC Voltage	999.9mV	100 μV	±0.3%rdg±5dgt	≧16MΩ
	9.999V	1mV	±2.5%rdg±5dgt (50Hz to 200Hz)	
	99.99V	10mV	±2.5%rdg±5dgt (50Hz to 500Hz)	
	600V	100mV		
DC Current	4000mA	1mA	±1.2%rdg±6dgt	0.03V/A
	10A	10mA	±0.8%rdg±4dgt	
AC Current	4000mA	1mA	±2.5%rdg±10dgt	0.03V/A
	10A	10mA	±1.2%rdg±3dgt	
Resistance	999.9 Ω	0.1 Ω	±0.5%rdg±6dgt	Open Circuit Voltage 2.7V DC
	9.999kΩ	1 Ω		
	99.99kΩ	10 Ω	±0.8%rdg±3dgt	1.3V DC
	999.9kΩ	100 Ω		
	4MΩ	1kΩ		
40MΩ	10kΩ	±1.5%rdg±5dgt		
Other Measurements	Frequency, Duty Cycle, Pulse Width, Dwell Angle, RPM, Temperature, Continuity Test, Diode Test			
Functions	MAX / MIN, Difference, Average, Range Hold, Display Hold, Auto Power Off			

Accessories, Optional Accessories

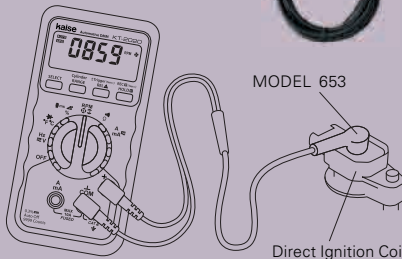
MODEL 660 AC / DC Clamp Adapter (Optional Accessories)

The charge current of alternator can be measured just clamping.



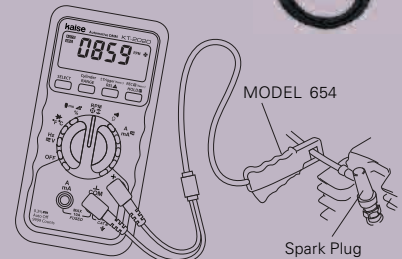
MODEL 653 RPM Sensor (Accessories)

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



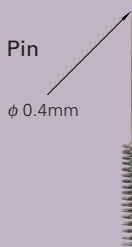
MODEL 654 RPM Sensor (Accessories)

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



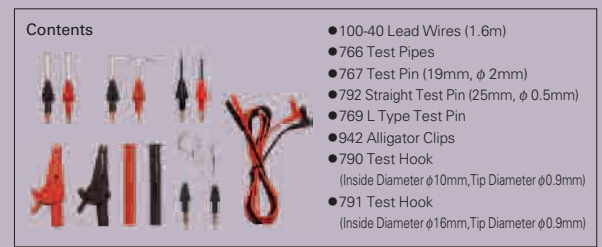
MODEL 793 Coil-Type Contact Pin (Optional Accessories)

Extra fine test pin only 0.4mm diameter. It is suitable for coupler voltage measurement because it takes care not to scratch the object by spring structure.



MODEL 100-41 Test Lead Kit (Optional Accessories)

Various measurement is possible by changing test pins.



Automotive Digital Multimeters

Motorcycle Multimeter



SK-6166

FEATURES

- RPM, 20mA and 20A DC / AC, and Continuity Tests.
- 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 944 Test Pin
 100-41 Test Lead Kit 946 battery Clip
 100-62 Test Lead Set 793 Coil-Type Contact Pin
 940 Alligator Clips



	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	200mV	0.1mV	±1.2%rdg±2dgt	≥100MΩ	
	2V	1mV		≈11MΩ	
	20V	10mV		≈10MΩ	
	200V	100mV			
	300V	1V			
AC Voltage	2V	1mV	±2.3%rdg±7dgt	≈11MΩ	
	20V	10mV		≈10MΩ	
	200V	100mV			
	300V	1V			
	Range	Resolution	Accuracy	Voltage Drop	
DC Current	20mA	10μA	±1.0%rdg±4dgt	≤0.5V	
	20A	10mA	0 to 10.00A	<0.5V	
			±1.5%rdg±2dgt		
			10.01 to 20A		
AC Current	20mA	10μA	±2.0%rdg±8dgt	<0.5V	
	20A	10mA	0 to 10.00A		
			±2.0%rdg±7dgt		
			10.01 to 20A		
			±3.0%rdg±10dgt		
	Range	Resolution	Accuracy	Test Current	
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					
Other Measurements	RPM, Continuity Test, Diode Test, Current by Clamp Adapter,				
Functions	Range Hold, Display Hold, Auto Power Save				

Automotive Multimeter



SK-6167

FEATURES

- RPM, Dwell Angle, Temperature, 30A DC / AC.
- 200A DC / AC 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 : F19 (25A / 250V) x 1
 Dimensions : 160(H) x 75(W) x 34(D) mm
 Weight : 180g
 Accessories : 100-57 Test Leads (x 1 set)
 818-02 Temperature Probe (x 1)
 940 Alligator Clips (x 1 set)
 991 Carrying Case (x 1), 1.5V R6P Batteries (x 2)
 Spare Fuse F19 (25A / 250V) x 1

OPTIONAL ACCESSORIES

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



	Range	Resolution	Accuracy	Input Impedance	
DC Voltage	2V	1mV	±1.2%rdg±2dgt	≈11MΩ	
	20V	10mV		≈10MΩ	
	200V	100mV			
	300V	1V			
AC Voltage	2V	1mV	±2.3%rdg±8dgt	≈11MΩ	
	20V	10mV		≈10MΩ	
	200V	100mV			
	300V	1V			
	Range	Resolution	Accuracy	Voltage Drop	
DC Current	30A	0.1A	±1.5%rdg±4dgt	≤0.5V	
			0 to 10.00A		
			±1.5%rdg±2dgt		
			10.01 to 30A		
AC Current	30A	0.1A	±2.5%rdg±4dgt	≤0.5V	
			0 to 10.00A		
			±1.5%rdg±4dgt		
			10.01 to 30A		
			±2.5%rdg±7dgt		
	Range	Resolution	Accuracy	Test Current	
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					
Other Measurements	RPM, Dwell Angle, Continuity Test, Temperature, Current by Clamp Adapter				
Functions	Range Hold, Display Hold, Auto Power Save				

Digital Tachometer

Focusing on Easy of Use Digital Tachometer.



NEW 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.)

SPECIFICATIONS

Display : Maximum Reading 9999
 Power Supply : 1.5V R6P or AA Batteries (x 2)
 CE Mark : CAT I 1000V and EMC
 Dimensions : 148(H) x 83(W) x 33(D) mm
 Weight : 180g
 Accessories : 652 RPM Sensor (x 1)
 995 Carrying Case (x 1)
 1.5V R6P (AA) batteries x 2

OPTIONAL ACCESSORIES

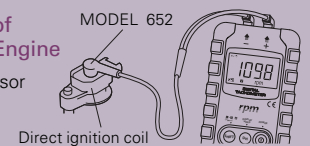
650 RPM Sensor (for High Tension Cord)

	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

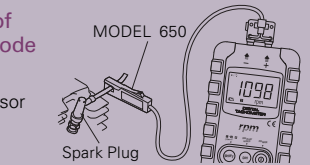
Measurement of Direct Ignition Engine

Use 652 RPM Sensor (provided)



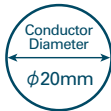
Measurement of High Tension Code Type Engine

Use 650 RPM Sensor (option)



Low Current DC Clamp Meter

Quick and Easy Dark Current Measurement Just Clamping-On



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

SK-7830

FEATURES

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

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

SPECIFICATIONS

Display : 4000 count LCD, Maximum reading 4050
 Sampling Rate : 64 times / sec (Display : 1 time / sec)
 Range Selection : Manual (4000mA), Auto (40A / 200A)
 Conductor Diameter : φ 20mm Max.
 Power Supply : 1.5V R6P or AA Batteries (x 2)
 CE Mark : CAT III 300V, CAT I 600V and EMC
 Dimensions : 203(H) x 61(W) x 30(D) mm
 Weight : 230g
 Accessories : 1011 Carrying Case (x 1)
 1.5V R6P Batteries (x 2)



Car Measurement with SK-7830

Dark Current Measurement

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

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



Car Alternator's Charging Current Measurement

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

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



O2 Sensor Checker

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

DC V DISP HOLD APO

NEW SK-8402 O₂ SENSOR CHECKER

FEATURES

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

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

SPECIFICATIONS

Display : (Numerical) 999 count LCD,
(Bargraph) 13 segments

Sampling Rate : 500 times/second
(LCD : 1 time/second in stand-by mode)

Range Selection : Auto Ranging

Power Supply : 1.5V R6P or AA Batteries (x 2)

Dimensions : 148(H) x 83(W) x 33(D) mm

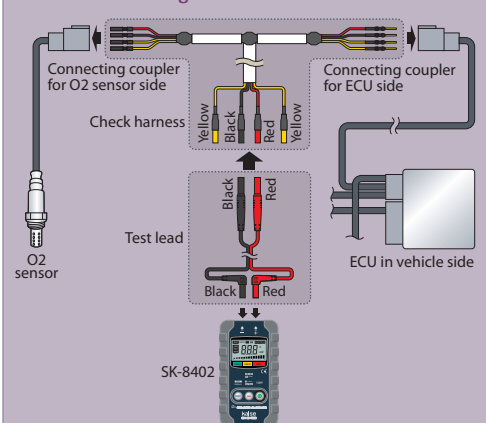
Weight : 220g

Accessories : 100-65 Test Lead (x 1 set)
 911 Check Harness (x 1)
 947B Black Alligator Clip (x 1)
 795 Test Pins: Red & Black (x 1 set)
 1030 Carrying case (x 1)
 1.5V R6P Batteries (x 2)

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

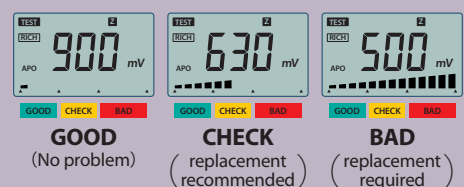


Connection image



Bar-Graph Display

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



Triaxial ELF Magnetic Field Meter

True RMS! High Performance!



NEW 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 : CAT I 600V and EMC
 Dimensions : 148(H) x 83(W) x 33(D) mm,
 Weight : 220g
 Accessories : 1015 Carrying Case
 1.5V R6P Batteries (x 2)

	Range	Resolution	Accuracy	Maximum Input
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			

Advantages of SK-8301

Accurate Measurement by Triaxial Sensor



In the field of multiple electromagnetic sources

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

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

True RMS

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



Digital Thermometer

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



NEW SK-6850 DIGITAL THERMOMETER

FEATURES

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

OPTIONAL ACCESSORIES

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

SPECIFICATIONS

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

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



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

MODEL	Dimensions (Sensor)	Measurement Range	Application
817-01	3.2 φ × 250mm	-50°C to 800°C	For Liquid Temperature Measurement
817-03	5 φ × 500mm	-50°C to 1150°C	For Liquid Temperature Measurement
817-17	1.6 φ × 150mm	-50°C to 600°C	For Internal Temperature Measurement like food or chemical materials and Liquid Temperature Measurement
817-19	3.2 φ × 150mm	-50°C to 750°C	For Internal Temperature Measurement like food
817-24	4.5 φ mm	0 to 600°C	Surface Temperature Measurement
817-25	3.2 φ × 150mm	0 to 200°C	For Air Temperature Measurement like Air Conditioner

Dimensions of Temperature Probes

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

MODEL	Tip Form	Dimensions	MODEL	Tip Form	Dimensions
817-01			817-19		
817-03			817-24		
817-17			817-25		

Unit : mm

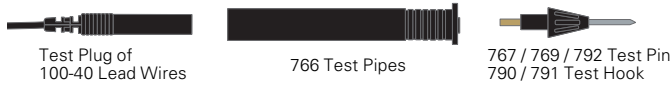
100-41 Test Lead Kit



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

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

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



Applicable Models
SK-7682 / 7718 / 7719 / 7720 / 7722 / 7706 / 7707 / 7708 / 7615 / 7625 / 7640 / 7810 / 7815 / 6161 / 6163 / 6150 / 4033 / 4035 / 355 / 6166 / 6167 / KU-2602 / KF-32 / 20 / KT-2020

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

767
Test Pin

769
L Type Test Pin

790/791
Test Hook

792
Straight Test Pin

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

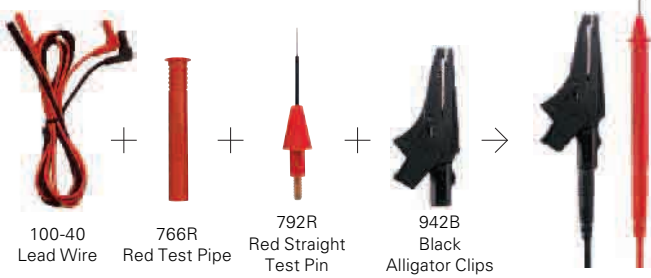
942
Alligator Clips
Max. Voltage : 1000V
Max. Current : 20A
Jaw Opening : 20mm

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

1002
Carrying case

100-62 Test Lead Set

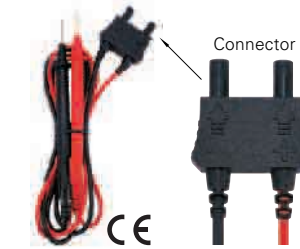
Combination of useful components from 100-41.



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

Applicable Models
Same as the models for 100-41

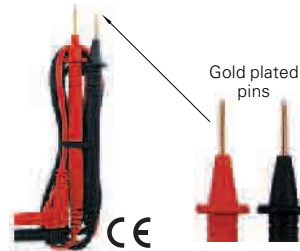
100-63 Test Leads



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

Applicable Models
SK-7660 / 7661 / 7602 / 7603 / 7820 / 7825

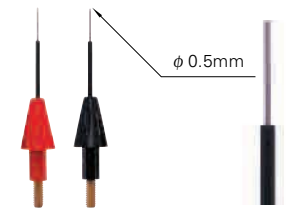
100-57 Test Leads



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

Applicable Models
SK-7682 / 7718 / 7719 / 7720 / 7722 / 7706 / 7707 / 7708 / 7615 / 7625 / 7640 / 6161 / 6163 / 6150 / 4033 / 4035 / 355 / 6166 / 6167

792 Straight Test Pin



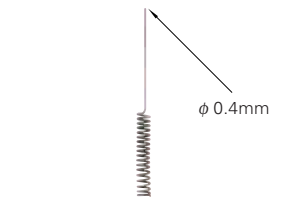
Extra fine and elastic test pin only 0.5mm diameter, that is very suitable for narrow point measurement. Insulation coated bottom to prevent incorrect measurement.

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

Applicable Models
SK-6592 / 100-41

*Only red pin is available for SK-6592.

NEW 793 Coil-Type Contact Pin

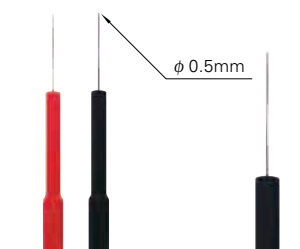


Max. Current : 1A
Max. Voltage : 100V

Applicable Models
SK-7660 / 7661 / 7682 / 7718 / 7719 / 7720 / 7722 / 7706 / 7707 / 7708 / 7602 / 7603 / 7615 / 7625 / 7640 / 7810 / 7815 / 7820 / 7825 / 6161 / 6163 / 6150 / 6500 / 6555 / 4033 / 4035 / 6592 / 355 / 6166 / 6167 / KU-2602 / KF-32 / 20 / KT-2020

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

NEW 795 Test Pin

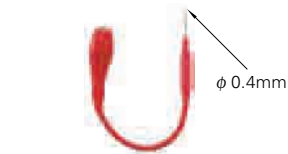


Extra fine test pin only 0.5mm diameter. It is very suitable for narrow point measurement. Use it with connecting to 100-40 test plug.
※Difference from 792 straight test pin :
795 can connect to 100-40 directly without 766 test pipes.

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

Applicable Models
SK-8402 / 100-40

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
KT-2020 / 6166 / 6167

946 Battery Clip



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

Applicable Models
KT-2020 / 6166 / 6167

Alligator Clips

940 Alligator Clips



Applicable Models
SK-7660 / 7661 / 7718 / 7719 / 7720 / 7722 / 7706 / 7707 / 7708 / 7602 / 7603 / 7615 / 7625 / 7640 / 7810 / 7815 / 7820 / 7825 / 3500* / 3502* / 6161 / 6163 / 6150 / 6500 / 6555 / 4033 / 4035 / 6592 / 355 / 6166 / 6167 / KU-2602 / KF-32 / 20

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

Temperature Probe

Applied for the testers that have temperature measurement function.

810-02 Temperature Probe



Measurement	Applicable Models
-50°C to 250°C	SK-355 / KF-32 / 20

818 Temperature Probe



Measurement	Applicable Models
-50°C to 160°C	SK-7720 / 7722 / 7706

818-02 Temperature Probe



Measurement	Applicable Models
-50°C to 100°C	KU-2602 / KT-2020 / SK-6167 / 6850

Line Separator

880 Line Separator



Applicable Models
SK-7660 / 7661 / 7718 / 7719 / 7720 / 7722 / 7706 / 7707 / 7708 / 7600 / 7602 / 7603 / 7615 / 7625 / 7640 / 7810 / 7815 / 7820 / 7825 / 821 Clamp Adapter

Standard Accessories (excerption)

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

Carrying Case	
976	1006
978	1007
983	1011
985	1012
985-02	1013
988	1015
991	1016
995	1020
1000	1022
1004	1024
1005	1030

Alligator Clips	
940	943
942	945B (Black)
942B (Black)	947B (Black)
Fuse	
F12 (0.3A / 250V)	F23 (1A / 600V)
F13 (0.5A / 250V Non-arcing)	F24 (3A / 600V)
F14 (0.5A / 250V)	F25 (15A / 600V)
F15 (0.75A / 250V)	F26 (1A / 600V)
F16 (15A / 250V)	F29 (3A / 600V)
F18 (15A / 250V)	F30 (10A / 600V)
F19 (25A / 250V)	F31 (0.5A / 250V)
F22 (0.5A / 600V)	

Clamp Adapter

NEW 821 AC Clamp Adapter



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

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

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-2602
DC 0 to 400A	SK-6161 / 6163 / 6150 / 4033 / 4035 / 6166 / 6167 / KT-2020

Conversion Adapter

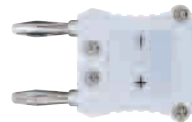
NEW 731 BNC Conversion Adapter



731 can convert BNC connector to banana plug.

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

NEW 732 Miniature Connector Conversion Plug





















732 can convert miniature connector to banana plug.

※K-type temperature sensor only.





















Applicable Models
KU-2602 / SK-6850

Mark Descriptions

Measurement Items

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

Measurement Functions

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

kaise

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