

kaise

NEW DIGITAL INSULATION TESTER

SK-3500

50V/125V/250V/500V
DC

SK-3502

125V/250V/500V/1000V
DC

www.kaise.com



COMPACT, BUT POWERFULL! Versatile 4-Range Insulation Tester

❖ Wide Range of Insulation Measurement with Enhanced Safety

❖ Comparator Function

❖ Data Memory Function (up to 100 data)

❖ Measurable Many Times

Insulation resistance —∞ (ON for 5 seconds, OFF for 25 seconds)

50V (measure 0.05MΩ) : more than 5000 times ※SK-3500

125V (measure 0.125MΩ) : more than 4500 times

250V (measure 0.25MΩ) : more than 4000 times

500V (measure 0.5MΩ) : more than 3500 times

1000V (measure 1MΩ) : more than 2500 times ※SK-3502

(For alkaline cells)



SK-3500



SK-3502

Supplied with a Handy-Carrying Case



❖ **Tough and Protective**

Break-proof hard carrying case to protect the instruments from any damage.

❖ **Functional Design**

Safe and stable hands-free measurement is possible by wearing shoulder strap around your neck with releasing a side snap and compact storage of carrying case cover.

Compact and Functional 4-range Insulation Tester with Enhanced Safety.

High Usability in the Field

Compact

Neatly fit in your hand.(120(H)×130(W)×70(D)mm)

4-Ranges

Wide range of insulation measurement from low to high voltage circuit.

SK-3500	50V / 125V / 250V / 500V
SK-3502	125V / 250V / 500V / 1000V

Low Resistance and AC/DC Voltage

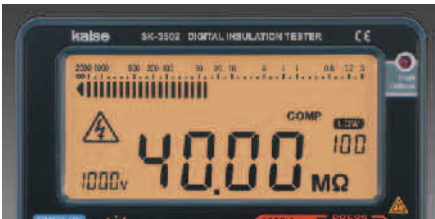
Useful for additional measurements.



Wide Digital Display

Bargraph LCD (with backlight)

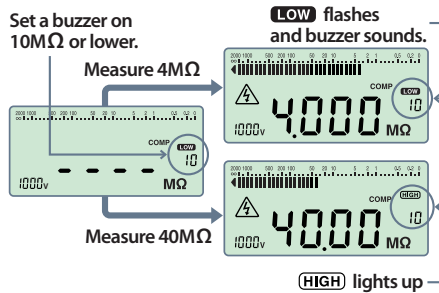
Wide bargraph scale that can confirm measurement values on sight like an analog meter. Backlight is helpful for easy reading even in dark areas.



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)

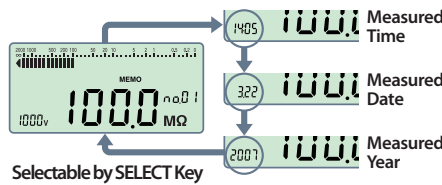
Example) When setting a buzzer on 10MΩ or lower.



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.



Safety Functions

Live Wire Warning

(for Insulation Resistance & Low Resistance)
If connected to live-wired object that has over 10V, Δ and bargraph flashes to prevent dangerous measurement.

Safety Lock

Protect the operator from high voltage accidents when selecting 500V or 1000V ranges.

High Voltage Warning

Red lamp and Δ light up to indicate high voltage generation.

Auto Discharge

Automatically discharge the electricity in the measured object.

Simple Dust-Proof and Water-Resistant Structure

Protect the instrument from dust and water damages.

CE Marking Approved

CATIV600V

Other Functions

Timer

3-minutes continuous measurement is possible.

Display Hold

Hold measurement values for easy data confirmation.

Zero-ohm Adjustment

Cancel resistance of test leads and fuse to display actual resistance of the measured object. (for Low Resistance)

Auto Power Save

Power turns off automatically after approx. 15 minutes of last switch operation to conserve battery life.

accuracy at 23°C ±5°C, <75% RH in non-condensing

Model	SK-3500				SK-3502				
Insulation Resistance Measurement	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 10MΩ			0.200 to 100 MΩ	0.200 to 10MΩ	0.200 to 100 MΩ		
	Accuracy	±3%rdg±4dgt				±3%rdg±4dgt			
	2nd effective range	0 to 0.199 MΩ, 100.1 to 200.0 MΩ		0 to 0.199 MΩ, 100.1 to 200.0 MΩ		0 to 0.199 MΩ, 100.1 to 200.0 MΩ	0 to 0.199 MΩ, 100.1 to 200.0 MΩ		
Accuracy	±5%rdg±5dgt				±5%rdg±5dgt				
Common to SK-3500 / SK-3502									
Low Resistance Measurement	Display Range (Auto-ranging)	20.00Ω				400.0Ω			
	Accuracy (After 0Ω Adjustment)	±3%rdg±5dgt				±3%rdg±5dgt			
	Measurement Current	200mA or more				Approx. 10mA			
	Open Circuit Voltage	6V or more				Approx. 10mA			
AC/DC Voltage Measurement	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, High voltage warning, Safety lock, Automatic discharge, Zero-ohm adjustment, Backlight, Display hold, Auto power save								

Display (LCD)	4000 count, Maximum reading 4000, with bargraph	Maximum Rated Power	4.5VA (rated power in auto power save : 1mVA MAX)
Sampling Rate	2 times / second	Operable Supply Voltage	8.8V to 14.4V ("BAT" indication at 8.8V or less)
Response Time	Insulation resistance (∞→0, ∞→center value), Low resistance : within 5 seconds, Voltage : within 2 seconds	Number of Measurement	① Insulation resistance — ∞ (ON for 5 seconds, OFF for 25 seconds) : 50V : manganese cell : more than 1800 times, alkaline cell : more than 5000 times (measure 0.05M Ω) ※ SK-3500 125V : manganese cell : more than 1600 times, alkaline cell : more than 4500 times (measure 0.125M Ω) 250V : manganese cell : more than 1500 times, alkaline cell : more than 4000 times (measure 0.25M Ω) 500V : manganese cell : more than 1400 times, alkaline cell : more than 3500 times (measure 0.5M Ω) 1000V : manganese cell : more than 900 times, alkaline cell : more than 2500 times (measure 1M Ω) ※ SK-3502 ② Low resistance — 1Ω (ON for 5 seconds, OFF for 25 seconds) : manganese cell : more than 700 times, alkaline cell : more than 2500 times
Operable Temperature & Humidity	0°C to 40°C, 90%RH or lower in non-condensing	Fuse	Fast-acting 0.5A/600V (φ 6.3 × 32mm) × 1
Storage Temperature & Humidity	-20°C to 50°C, 75%RH or lower in non-condensing	Dielectric Strength	6.88kV 50Hz sine wave for 1 minute (between circuit and chassis)
Operable Environment	Indoors, <2000m ASL	Compliant Standard	JIS C 1302:2002 (Insulation resistance)
Temperature Coefficient	0 to 18°C, 28 to 40°C : add ± 5%rdg ± 5dgt to accuracy	Safety Level	CE Marking approved (IEC-61010-1, CAT IV 600V CLASSII and EMC Test passed.)
IP Protection Degree	IP40	Dimensions & Weight	120(H) × 130(W) × 70(D)mm, Approx. 600g (Including batteries)
Power Supply	1.5V R6P or LR6(AA) batteries × 8	Accessories	100-61 Test Lead × 1 set, 945 Alligator Clip (black) × 1, 1016 Carrying Case, 1.5V R6P(AAA) batteries × 8, Spare fuse (0.5A/600V) × 1 (built-in), Instruction Manual
Continuous Operating Time (with manganese cell)	① Insulation resistance — ∞ : Approx. 14 hours in 50V, approx. 14 hours in 125V, approx. 14 hours in 250V, approx. 12 hours in 500V, approx. 10 hours in 1000V (50V:SK-3500, 1000V:SK-3502) ② ACV : Approx. 30 hours ③ Low resistance — ∞ : Approx. 13 hours	Optional Accessories	766 Black Test Prod (with 767 Test Pin), 940 Red Alligator Clip

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