

YVAAASIYC SK-B3

Snakol YVAAASIYC SK-B3 Smart Digital Multimeter Instruction Manual

Model: SK-B3

1. INTRODUCTION

Thank you for choosing the Snakol YVAAASIYC SK-B3 Smart Digital Multimeter. This device is a professional, auto-ranging digital multimeter designed for accurate measurement of AC/DC voltage, AC/DC current, resistance, and capacitance. It also features Non-Contact Voltage (NCV) detection, live wire identification, continuity testing, data hold, backlight, and a flashlight. This manual provides essential information for safe operation, setup, and maintenance of your multimeter.

2. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using this multimeter. Failure to do so may result in injury or damage to the meter or equipment under test.

- Always ensure the test leads are in good condition and properly connected to the correct input terminals for the desired measurement.
- Do not apply voltage or current that exceeds the maximum specified limits for the meter.
- Exercise extreme caution when working with live circuits. Avoid contact with bare wires or terminals.
- Never operate the meter if it appears damaged or if the battery cover is not properly closed.
- Do not use the meter in wet environments or in the presence of explosive gas or dust.
- Always disconnect power to the circuit and discharge all high-voltage capacitors before measuring resistance or capacitance.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.

3. PRODUCT OVERVIEW

The Snakol YVAAASIYC SK-B3 multimeter is designed for ease of use and reliability. It features an automatic recognition function for most measurements, simplifying operation.

SK-B3

5999 Counts



Figure 3.1: Front view of the Snakol SK-B3 Smart Digital Multimeter, highlighting its automatic recognition feature and key specifications like AC/DC Voltage (600V), AC/DC Current (400mA), Resistance (10MΩ), On/Off Buzzer/Backlight, NCV/Flashlight, Data Hold, 5999 Counts, Auto Power Off, Zero Firewire Recognition, and Capacitance (6000uF).

3.1. Components

- **LCD Display:** Shows measurement readings, units, and function indicators.
- **Function Buttons:** NCV/LIVE, SEL (Select), HOLD.
- **Input Jacks:** mA (for current up to 400mA), COM (common negative terminal), VΩ (for voltage, resistance, capacitance, continuity).
- **NCV Sensor:** Located at the top of the meter for non-contact voltage detection.
- **Flashlight:** Integrated for illuminating work areas.

Full-featured Compact upgrade

Intelligent, safe and secure Measurement is a breeze

Function Model	SK-B1	SK-B3
AC Voltage	0.001V~600V	0.001V~600V
DC Voltage	0.001V~600V	0.001V~600V
AC Current	0.1mA~400mA	0.1mA~400mA
DC Current	0.1mA~400mA	0.1mA~400mA
Resistance	1Ω~40MΩ	1Ω~10MΩ
Capacitance		0.01nF~6mF
On/Off Beeping	√	√
Zero Fire Identification		√
NCV	√	√
Display	3999 Counts	5999 Counts
Battery	1.5V*2 AAA	
Weight	About 90g	
Dimension	118*65*29mm	
General functions: backlight, flashlight, data hold, auto power off, auto + manual mode,		

Figure 3.2: The Snakol SK-B3 Multimeter displaying its HD large screen with backlight and indicating the high brightness flashlight feature. The backlight and flashlight can be manually activated, making the device suitable for operation in various complex environments.

4. SETUP

4.1. Battery Installation

The Snakol SK-B3 Multimeter requires two 1.5V AAA batteries (not included). To install or replace batteries:

1. Ensure the multimeter is powered off and disconnect all test leads from the input terminals.
2. Locate the battery compartment on the back of the meter.
3. Use a screwdriver to open the battery compartment cover.
4. Insert two 1.5V AAA batteries, observing the correct polarity (+ and -) as indicated inside the compartment.
5. Replace the battery compartment cover and secure it with the screw.

Note: Remove batteries if the meter is not used for an extended period to prevent leakage.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Press the **SEL** button briefly to power on the multimeter. The meter will automatically enter auto-ranging mode. To power off, press and hold the **SEL** button for approximately 2 seconds.

5.2. Automatic Recognition Mode

In automatic recognition mode, the multimeter intelligently identifies the type of measurement (AC/DC voltage, resistance, continuity) and selects the appropriate range. Simply connect the test leads to the circuit, and the meter will display the reading.

5.3. AC/DC Voltage Measurement

1. Insert the red test lead into the V Ω jack and the black test lead into the COM jack.
2. Connect the test probes in parallel to the circuit or component you wish to measure.
3. The meter will automatically detect and display the AC or DC voltage.

5.4. AC/DC Current Measurement (up to 400mA)

1. Insert the red test lead into the mA jack and the black test lead into the COM jack.
2. Disconnect power to the circuit.
3. Open the circuit where you want to measure current and connect the test probes in series with the circuit.
4. Restore power to the circuit. The meter will automatically detect and display the AC or DC current.
5. After measurement, disconnect power, remove the meter from the circuit, and reconnect the circuit.

5.5. Resistance Measurement

1. Insert the red test lead into the V Ω jack and the black test lead into the COM jack.
2. Ensure the circuit is de-energized and all capacitors are discharged.
3. Connect the test probes across the component to measure resistance.
4. The meter will automatically display the resistance value.

5.6. Capacitance Measurement (SK-B3 Only)

1. Insert the red test lead into the V Ω jack and the black test lead into the COM jack.
2. Ensure the capacitor is fully discharged before connecting the test probes.
3. Connect the test probes across the capacitor terminals.
4. The meter will display the capacitance value.

5.7. NCV (Non-Contact Voltage) Measurement

The NCV function allows for detection of AC voltage without direct contact with wires.

1. Press the **NCV/LIVE** button to activate NCV mode.
2. Move the top of the multimeter (where the NCV sensor is located) close to the conductor being tested.
3. If AC voltage is detected, the meter will emit an audible beep and the NCV indicator on the display will illuminate. The intensity of the beeping and indicator will increase with stronger voltage.



HD large screen High brightness flashlight

Backlight and flashlight can be turned on manually,
suitable for operating in a variety of complex environments;

Figure 5.1: The Snakol SK-B3 Multimeter demonstrating its NCV (Non-Contact Voltage) measurement capability. This feature allows for safe insulation measurement by detecting AC voltage without direct contact, enhancing user safety.

5.8. Zero Fire Identification (Live Wire Detection)

This function helps identify live wires.

1. Press the **NCV/LIVE** button repeatedly until 'LIVE' is indicated on the display.
2. Insert the red test lead into the VΩ jack.
3. Touch the red probe to the wire or terminal you suspect is live.
4. If a live wire is detected, the meter will beep and the display will show 'LIVE'.

5.9. Continuity Test (On/Off Beeping)

This function checks for continuity in a circuit.

1. Insert the red test lead into the VΩ jack and the black test lead into the COM jack.
2. Ensure the circuit is de-energized.
3. Connect the test probes across the circuit or component.

4. If continuity exists (low resistance), the meter will emit an audible beep.

5.10. Data Hold

Press the **HOLD** button briefly to freeze the current reading on the display. Press it again to release the hold function and resume live measurements.

5.11. Backlight and Flashlight

Press and hold the **HOLD** button for approximately 2 seconds to turn on or off the display backlight and flashlight. This feature is useful in dimly lit environments.

5.12. Auto Power Off

The multimeter features an auto power off function to conserve battery life. If no operation is performed for approximately 15 minutes, the meter will automatically power off. To disable this feature temporarily, refer to the advanced settings section in the full manual (if available).

6. MAINTENANCE

6.1. Cleaning

Wipe the meter's casing with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is completely dry before use.

6.2. Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1. Prompt battery replacement ensures accurate measurements and proper operation.

7. TROUBLESHOOTING

- **Meter does not power on:** Check battery installation and ensure batteries are not depleted.
- **No reading or unstable reading:** Ensure test leads are properly connected and making good contact with the circuit. Verify the circuit is powered (if applicable).
- **Incorrect readings:** Check battery level. Ensure the correct measurement function is selected (though auto-ranging handles most). Verify the component or circuit is within the meter's measurement range.
- **Continuity buzzer not working:** Ensure the meter is in continuity mode and the circuit is de-energized.

8. SPECIFICATIONS

Feature	Specification (SK-B3)
Operating Mode	Auto range
Display Type	Digital Display
Display Counts	5999 Counts
AC Voltage Range	0.001V - 600V
DC Voltage Range	0.001V - 600V
AC Current Range	0.1mA - 400mA
DC Current Range	0.1mA - 400mA
Measuring Resistance Range	1Ω - 10MΩ
Measuring Capacitance Range	0.01nF - 6mF
Operating Temperature	0 - 40 °C
Dimensions	118 x 65 x 29 mm
Product Weight	About 90g
Battery	1.5V * 2 AAA (not included)
On/Off Beeping (Continuity)	Yes
Zero Fire Identification (Live)	Yes
NCV (Non-Contact Voltage)	Yes
Backlight	Yes
Flashlight	Yes
Data Hold	Yes
Auto Power Off	Yes

9. WARRANTY AND SUPPORT

This product is manufactured under strict quality control standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Snakol website. Please retain your proof of purchase for warranty claims.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question