

Sriya S20 (Sriyazx08kiopgt)

User Manual for Sriya S20 Intelligent Multimeter

Model: S20 (Sriyazx08kiopgt)

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your Sriya S20 Intelligent Multimeter. This device is a multifunctional voltage tester designed for accurate measurements in various electrical applications. It features an intelligent identification system, a large color LCD, and a rechargeable battery for convenience.

Please read this manual thoroughly before using the multimeter and keep it for future reference.

2. SAFETY WARNINGS

Failure to follow these safety instructions may result in electric shock, fire, or damage to the meter.

- When measuring high voltage, exercise extreme caution to avoid electric shock.
- Do not input AC and DC voltage higher than 620V, as this may damage the meter.
- Before measuring capacitance, ensure the capacitor is fully discharged.
- Always inspect the test leads for damage before use.
- Do not operate the meter if it appears damaged or is not functioning properly.
- Keep the device away from water and excessive moisture.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Sriya S20 Multimeter
- 2 x Test Pens (Test Leads)
- 1 x Charging Cable
- 1 x User Manual (this document)
- 1 x Storage Bag



Figure 3.1: Sriya S20 Multimeter with test leads and charging cable.

This image shows the main multimeter unit alongside its essential accessories: red and black test leads, and a USB charging cable, all neatly arranged.

4. PRODUCT OVERVIEW

The Sriya S20 is an advanced multimeter designed for ease of use and accuracy. Key features include:

- **Automatic Identification:** The multimeter can automatically identify AC voltage, DC voltage, and resistance, simplifying measurements.
- **High Resolution Color LCD:** Displays up to 9999 digits, showing voltage, frequency, and analog bars simultaneously. The black background with colorful numbers ensures clear readability.
- **Smart Standby:** To conserve battery, the screen brightness automatically reduces after approximately 10 seconds of no input.
- **Rechargeable Battery:** Equipped with a built-in 700mAh lithium battery, rechargeable via the included USB cable.



Figure 4.1: Front view of the Sriya S20 Multimeter.

This image provides a clear view of the multimeter's large color LCD screen, showing the "AUTO" mode indicator and current temperature reading, highlighting its intelligent display capabilities.



Figure 4.2: Input Jacks and Safety Markings.

A detailed close-up of the multimeter's input terminals, labeled "COM" and "INPUT", along with safety certifications like CE and CAT ratings (CAT II 600V, CAT III 300V), indicating its compliance with safety standards.

5. SETUP

5.1 Initial Charging

Before first use, ensure the multimeter is fully charged. Connect the included charging cable to the multimeter's charging port and a suitable USB power source (e.g., computer USB port, USB wall adapter).

- The battery indicator on the display will show charging status.
- A full charge typically takes a few hours.

5.2 Connecting Test Leads

To perform measurements, connect the test leads to the appropriate input jacks:

- Insert the black test lead into the "COM" (Common) jack.
- Insert the red test lead into the "INPUT" jack for most measurements (voltage, resistance, etc.).

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press and hold the power button (usually marked with a power symbol) to turn the multimeter on or off.

6.2 Automatic Measurement Mode

The Sriya S20 features an intelligent auto mode that simplifies measurements:

- Upon powering on, the meter defaults to "AUTO" mode.
- In "AUTO" mode, the multimeter automatically identifies the type of measurement (AC voltage, DC voltage, resistance) and selects the appropriate range.
- Simply connect the test leads to the circuit or component you wish to measure.

6.3 Reading the Display

The color LCD provides comprehensive information:

- The main large digits show the primary measurement value.
- Smaller digits may display secondary information like frequency.
- An analog bar graph provides a quick visual representation of the measured value.
- Polarity indication: A "-" symbol indicates negative polarity.
- "OL" or "-OL" indicates an overrange condition.



Figure 6.1: Detailed view of the Multimeter Display.

This image captures the multimeter's display from a top-down perspective, clearly showing the digital readings, the circular analog bar graph, and temperature display, demonstrating the clarity and comprehensiveness of the screen.

6.4 Function Buttons

The multimeter may include function buttons (e.g., "FUNC", "HF") on its side to switch between specific measurement modes or activate additional features if available. Refer to the on-screen indicators for current mode.



Figure 6.2: Side Function Buttons.

A close-up shot of the side of the multimeter, highlighting the "FUNC" and "HF" buttons, which are used to select different measurement functions or activate specific features.

7. MAINTENANCE

7.1 Cleaning

Wipe the multimeter's casing with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is off and disconnected from any power source before cleaning.

7.2 Battery Care

- Recharge the battery when the low battery indicator appears on the display.
- For long-term storage, charge the battery to approximately 50% and store the device in a cool, dry place.
- Avoid fully discharging the battery for extended periods.

7.3 Storage

When not in use, store the multimeter and its accessories in the provided storage bag to protect it from dust and physical damage. Store in a dry environment away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Multimeter does not power on.	Low or depleted battery.	Charge the multimeter using the provided USB cable.
Display shows "OL" or "-OL".	Measurement value exceeds the meter's range.	Ensure the measured value is within the specified limits (e.g., max 620V).
Inaccurate readings.	Damaged test leads; improper connection; external interference.	Check test leads for damage and ensure they are securely connected. Move away from strong electromagnetic fields.
Screen brightness reduces automatically.	Smart standby feature activated.	This is normal behavior to save battery. Any input or measurement will restore full brightness.

9. SPECIFICATIONS

Parameter	Value
Item Type	Multimeter
Material	Plastic
Auto Mode	Automatic identification of AC voltage, DC voltage, Resistance
Display	Color LCD
Maximum Display Value	9999 digits
Polarity Indication	Automatic indication, "-" for negative polarity
Overrange Display	"OL" or "-OL"
Sampling Rate	Approx. 3 times/second
Automatic Shutdown Time	5 minutes (after no operation)
Low Battery Indication	LCD display symbol
Standby	Screen brightness reduced after approx. 10 seconds of no measurement input
Working Temperature and Humidity	0-40°C, 0-80%RH
Storage Temperature and Humidity	-10-60°C, 0-70%RH
Power Supply	Built-in 700mAh lithium battery
Working Height	Up to 2000 meters

Parameter	Value
Input Impedance	10MΩ
Maximum Input Voltage	620V
Package Dimensions	6.69 x 3.94 x 1.97 inches
Item Weight	10.86 ounces
Model Number	Srliyazx08kiopgt

10. WARRANTY AND SUPPORT

This product is manufactured by Sriya. For any questions regarding product operation, troubleshooting, or warranty claims, please refer to the contact information provided by your retailer or visit the official Sriya support website. Please retain your purchase receipt as proof of purchase for warranty purposes.

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