flexman flexmanuzqym80oa7

FLEXMAN Digital Multimeter User Manual

Model: flexmanuzqym80oa7

1. Introduction

Thank you for choosing the FLEXMAN Digital Multimeter. This device is a portable, auto-ranging instrument designed for accurate measurement of various electrical parameters. It is an essential tool for electricians, hobbyists, and anyone needing to perform electrical tests in homes, vehicles, or for scientific projects. This manual provides detailed instructions for safe and effective use of your multimeter.

Image: The FLEXMAN Digital Multimeter shown with its test leads, USB cable, and carrying cloth bag.

2. Safety Information

WARNING: To avoid possible electric shock, fire, or personal injury, please read all safety information before you use the product.

- Always ensure the multimeter is in the correct measurement mode before connecting test leads to a circuit.
- Do not exceed the maximum input values for any range.
- Inspect test leads for damage before each use. Do not use if insulation is damaged or bare metal is exposed.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Do not operate the multimeter if it appears damaged or if it is not operating properly.
- Always disconnect power to the circuit and discharge all high-voltage capacitors before performing resistance, continuity, or diode tests.
- Do not use the multimeter in wet environments or explosive atmospheres.

3. Package Contents

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

- 1 x FLEXMAN Digital Multimeter
- 2 x Test Pens (Red and Black Test Leads)
- 1 x Instruction Manual (this document)
- 1 x Cloth Bag
- 1 x USB Cable (for charging)
- 1 x Accessory (likely a temperature probe, based on common multimeter accessories and temperature measurement capability)

Image: All components included in the FLEXMAN Digital Multimeter package: the multimeter, test leads, USB charging cable, and cloth carrying bag.

4. Product Overview

The FLEXMAN Digital Multimeter features a large backlit screen and intuitive controls for various measurements.

4.1. Front Panel and Display

- **Large Backlit Screen:** Displays measurement readings, units, and function indicators.
- **Function Buttons:** Buttons for selecting measurement modes (e.g., H/L NCV, SEL, LIVE, HOLD).
- **Input Jacks:** Ports for connecting test leads (COM, VΩHz, 10A).

Image: A close-up view of the bottom of the FLEXMAN Digital Multimeter, showing the input jacks for test leads.

4.2. Side and Rear Features

- **Power Button:** Located on the side for turning the device on/off.
- **Flashlight:** Integrated rear flashlight for illuminating dark work areas.
- **USB Charging Port:** For recharging the built-in lithium battery.

5. Setup

5.1. Initial Charging

The multimeter comes with a built-in 1000mAh lithium battery. Before first use, it is recommended to fully charge the device.

1. Connect the provided USB cable to the multimeter's charging port.
2. Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer USB port.
3. The charging indicator on the display will show the charging status. Charge until the battery icon indicates full charge.

5.2. Connecting Test Leads

Proper connection of test leads is crucial for accurate and safe measurements.

1. Insert the **black** test lead into the **COM** (Common) input jack.
2. For most voltage, resistance, continuity, capacitance, frequency, and diode measurements, insert the **red** test lead into the **VΩHz** input jack.
3. For high current measurements (up to 10A), insert the **red** test lead into the **10A** input jack.

CAUTION: Always ensure test leads are connected to the correct input jacks for the desired measurement to prevent damage to the meter or personal injury.

6. Operating Instructions

6.1. Power On/Off and Auto Ranging

- To power on the multimeter, press the power button on the side.
- The multimeter features **Auto Ranging**, which automatically selects the appropriate measurement range for the input signal. This simplifies operation.
- The device also has an **Automatic Shutdown** feature to conserve battery life. It will power off after a period of inactivity.
- To power off, press and hold the power button.

6.2. Measurement Functions

Use the function buttons (e.g., SEL) to cycle through different measurement modes if the auto-ranging doesn't select the desired one immediately, or for specific sub-functions.

6.2.1. Voltage Measurement (AC/DC)

1. Connect the red test lead to the VΩHz jack and the black test lead to the COM jack.
2. Turn on the multimeter. It will typically default to auto-ranging voltage measurement.
3. Touch the test probes to the points in the circuit where you want to measure voltage.
4. The display will show the voltage reading and indicate AC (~) or DC (---) voltage.

Image: The FLEXMAN Digital Multimeter being used to measure the voltage of a car battery.

6.2.2. Resistance Measurement (Ω)

1. Ensure the circuit is de-energized before measuring resistance.
2. Connect test leads as for voltage (VΩHz and COM).
3. Select the resistance mode (Ω) if not automatically detected.
4. Touch the test probes across the component or circuit path to measure resistance.

6.2.3. Continuity Test (♫)

1. Ensure the circuit is de-energized.
2. Connect test leads as for voltage (VΩHz and COM).
3. Select the continuity mode.
4. Touch the test probes to the two points you want to check for continuity. A continuous beep indicates a complete circuit (low resistance).

Image: The FLEXMAN Digital Multimeter being used to check electrical wiring, likely for continuity or voltage.

6.2.4. Capacitance, Frequency, Diode, and Temperature

The multimeter supports these measurements. Refer to the on-screen icons and use the **SEL** button to cycle through these functions when in the appropriate mode (e.g., VΩHz input). For temperature, use the included accessory probe.

6.3. Special Features

- **Data Hold (HOLD button):** Press the HOLD button to freeze the current reading on the display. Press again to release.
- **Backlight:** The large screen has a backlight for easy reading in low-light conditions. This feature is typically activated automatically or via a dedicated button.
- **Non-Contact Voltage (NCV):** Use the NCV function to detect AC voltage without direct contact with wires. Hold the top of the multimeter near a live wire; the device will indicate the presence of voltage.
- **LIVE Function:** This function helps identify live wires.
- **Max/Min Data:** The multimeter may support recording maximum or minimum readings during a measurement

session. Consult the display icons and button functions for activation.

7. Maintenance

7.1. Cleaning

To clean the multimeter, wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the device is powered off and disconnected from any circuits before cleaning.

7.2. Storage

When not in use, store the multimeter in its cloth bag in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.

7.3. Battery Care

The built-in lithium battery is designed for long life. Avoid fully discharging the battery frequently. Recharge the battery when the low battery indicator appears on the display.

8. Troubleshooting

Problem	Possible Cause	Solution
Multimeter does not power on.	Battery is fully discharged.	Connect the USB cable and charge the multimeter.
No reading or "OL" (Overload) displayed.	Incorrect range selected (if manual ranging) or input value exceeds maximum range. Open circuit.	Ensure auto-ranging is active or select a higher range. Check test lead connections and circuit integrity.
Inaccurate readings.	Poor test lead connection, low battery, or incorrect measurement mode.	Ensure test leads are firmly connected. Recharge battery. Verify correct measurement mode.
Backlight not working.	Battery too low or backlight function not activated.	Charge the battery. Press the backlight button (if available) or check settings.

9. Specifications

Parameter	Value
Item Type	Digital Multimeter
Model Number	flexmanuzqym80oa7
Size (LxWxH)	Approx. 16.2 x 4.8 x 2.8 cm / 6.4 x 1.9 x 1.1 in
Power Supply	USB
Battery	1000mAh, Lithium battery (built-in)
True RMS	0-1KHz

Parameter	Value
Resistance Range	0-100MΩ
Ambient Temperature Range	0-60°C
Maximum Count	9999
Measurement Mode	Automatic, Manual
Material	ABS
Country of Origin	China

Size: Approx. 16.2 x 4.8 x 2.8cm / 6.4 x 1.9 x 1.1in(LxWxH)

Image: The FLEXMAN Digital Multimeter with an overlay indicating its approximate dimensions.

10. Warranty and Support

For warranty information and technical support, please refer to the contact details provided by your retailer or visit

the official FLEXMAN website. Keep your purchase receipt as proof of purchase for warranty claims.
Manufacturer: flexman