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- › [Gardner Bender](#) /
- › [Gardner Bender GUSB-3450 USB Multimeter Instruction Manual](#)

### Gardner Bender GUSB-3450

# Gardner Bender GUSB-3450 USB Multimeter Instruction Manual

Model: GUSB-3450

## PRODUCT OVERVIEW

The Gardner Bender GUSB-3450 USB Multimeter is designed to confirm USB port voltage and current, and to check the functionality of chargers, cables, and USB ports. This device features a durable, high-impact housing and includes a convenient pocket clip for portability. It is capable of measuring current draw, assessing the performance of solar USB chargers, and testing for proper wiring and polarity. The integrated display alternates between showing voltage and amperage readings for easy interpretation.



Image: The Gardner Bender GUSB-3450 USB Multimeter, a compact red device with a digital display and a standard USB-A connector.

## KEY FEATURES

- Checks voltage and current of USB ports.
- Tests charging cables for proper function.
- Measures current draw from connected devices.
- Tests for proper wiring and polarity in USB connections.

- Features a durable, high-impact housing for longevity.
- Easy-to-understand digital display that alternates between volts and amps.
- Includes a pocket clip for convenient carrying.

## SETUP

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1. **Identify USB Port:** Locate a standard USB-A port on your power source (e.g., computer, wall charger, power bank).
2. **Insert Multimeter:** Plug the Gardner Bender GUSB-3450 USB Multimeter directly into the USB-A port of your power source. Ensure a firm connection.
3. **Connect Device:** Plug the USB charging cable of the device you wish to test (e.g., smartphone, tablet) into the USB-A output port of the GUSB-3450 Multimeter.
4. **Power On:** Once connected, the multimeter's display will automatically activate and begin showing readings. No external power or batteries are required for the multimeter itself.



Image: The GUSB-3450 Multimeter connected to a laptop's USB port, with a charging cable extending to a smartphone, illustrating a typical setup.



Image: A close-up view of the GUSB-3450 Multimeter plugged into a laptop's USB port, showing the compact design and direct connection.

## OPERATING INSTRUCTIONS

The GUSB-3450 Multimeter provides real-time readings of voltage and current. The display automatically alternates between these two measurements.

### Reading Voltage (V)

When the display shows a 'V' symbol next to the numerical value, it indicates the voltage being supplied by the USB port. Standard USB 2.0/3.0 ports typically supply 5V. Deviations from this value can indicate an issue with the power source or cable.



Image: The GUSB-3450 Multimeter's digital display showing a voltage reading of '5.01 V', indicating the measured voltage.

### Reading Current (A)

When the display shows an 'A' symbol next to the numerical value, it indicates the current (amperage) being

drawn by the connected device. This reading is useful for determining if a device is charging at its expected rate or if a cable/charger is underperforming. For example, a smartphone might draw 1A or 2A depending on its charging capabilities and the charger's output.



Image: The GUSB-3450 Multimeter's digital display showing a current reading of '0.86 A', indicating the measured amperage.

## Testing Polarity and Wiring

The multimeter can help identify issues with wiring and polarity by displaying unexpected voltage or current readings. If a USB port or cable is incorrectly wired, the device may not function, or the multimeter may show no reading or an unstable reading. Always ensure connections are secure and the device is properly inserted.

## MAINTENANCE

- **Cleaning:** To clean the multimeter, gently wipe the surface with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** The device features a high-impact housing, but avoid dropping it or subjecting it to excessive force to prevent damage to internal components or the display.

## TROUBLESHOOTING

- **No Display:**
  - Ensure the multimeter is fully inserted into a functioning USB port.

- Verify the USB port itself is active and supplying power. Try a different USB port or power source.
- **Unstable Readings:**
  - Check all connections (multimeter to source, cable to multimeter, device to cable) for looseness.
  - The connected device might be drawing fluctuating current, which is normal during certain charging phases.
  - Test with a different USB cable or device to isolate the issue.
- **Incorrect Readings:**
  - Compare readings with another known good USB tester if available.
  - Ensure the power source is providing stable power.

## SPECIFICATIONS

Specification	Value
Brand	Gardner Bender
Model Number	GUSB-3450
Measurement Type	Multimeter (Voltage, Current)
Display Style	Digital
Color	Red
Material	ABS
Item Weight	22.68 g (0.8 ounces)
Product Dimensions (L x W x H)	1 x 0.5 x 2.56 inches
Power Source	USB Powered (No Batteries Required)
Usage	Current Measurement, USB Port Function and Cable Tester, Voltage Measurement
UPC	032076937621

## WARRANTY AND SUPPORT

### Warranty Information


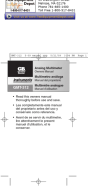

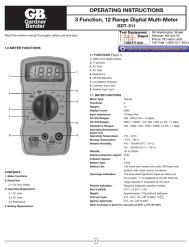
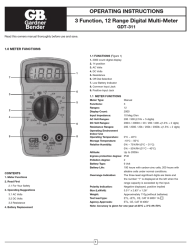
The Gardner Bender GUSB-3450 USB Multimeter comes with a **One Year Limited Warranty**. Please retain your proof of purchase for warranty claims. This warranty covers defects in materials and workmanship under normal use.

### Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Gardner Bender website or contact their customer service department. You can find contact information and additional resources on their website: [www.gardnerbender.com](http://www.gardnerbender.com)



Related Documents - GUSB-3450

	<p><a href="#">Gardner Bender COV-3200 Screwdriver Voltage-Continuity Tester Operating Instructions</a></p> <p>Operating instructions and specifications for the Gardner Bender COV-3200 Screwdriver Voltage-Continuity Tester. Learn about its features, operating range, and safety precautions.</p>
	<p><a href="#">Gardner Bender GMT-312 Analog Multimeter User Manual</a></p> <p>Comprehensive user manual for the Gardner Bender GMT-312 Analog Multimeter, covering specifications, operating instructions, safety precautions, and troubleshooting.</p>
 <p>BAG DIMENSIONS: 70mm x 130mm PRINT AREA: 60mm x 97mm</p>	<p><a href="#">Gardner Bender Digital Battery Tester Operating Instructions</a></p> <p>User guide for the Gardner Bender Digital Battery Tester, covering operation for various battery types including AA, AAA, C, D, N, 9V, and 1.5V button cells. Includes safety warnings and links to download full instructions.</p>
	<p><a href="#">Gardner Bender GDT-311 Digital Multi-Meter Operating Instructions</a></p> <p>Comprehensive operating instructions for the Gardner Bender GDT-311, a 3-function, 12-range digital multi-meter. Covers meter functions, safety information, operating procedures for AC Volts, DC Volts, and Resistance, as well as battery replacement.</p>
	<p><a href="#">Gardner Bender GDT-311 3 Function, 12 Range Digital Multi-Meter Operating Instructions</a></p> <p>Operating instructions for the Gardner Bender GDT-311 3 Function, 12 Range Digital Multi-Meter. Covers meter functions, safety information, operating procedures for AC volts, DC volts, and resistance, and battery replacement.</p>