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Musksulod 6L2 AC 300mA Direct

6L2 AC Milliamp Ammeter User Manual

Model: AC 300mA Direct (6L2 Series)
Brand: Musksulod

1. Introduction

This user manual provides essential information for the safe and effective operation, installation, and maintenance of your Musksulod 6L2 AC Milliamp Ammeter. This precision instrument is designed for measuring alternating current (AC) in milliampere (mA) units, providing clear and accurate readings via its pointer display. Please read this manual thoroughly before use to ensure optimal performance and longevity of the device.

2. Product Features

- Designed for measuring AC milliampere current.
- Available in various ranges: 50mA, 100mA, 300mA, 500mA.
- Clear pointer display for easy reading.
- Compact 80x80mm square design for panel mounting.
- Durable construction suitable for various applications.

3. Setup and Installation

Proper installation is crucial for the accurate and safe operation of the ammeter. Ensure power is disconnected before beginning installation.

3.1. Unpacking

Carefully remove the ammeter from its packaging. Inspect the device for any signs of damage during transit. If any damage is observed, do not proceed with installation and contact customer support.

3.2. Mounting

The 6L2 ammeter is designed for panel mounting. The instrument size is 80x80mm, and it requires an opening of 76x76mm for proper fit.



Figure 3.2.1: Ammeter dimensions for panel mounting. The instrument measures 80x80mm, and the required panel opening is 76x76mm.



Figure 3.2.2: Detailed view of the 6L2 ammeter, highlighting its 80x80mm size and internal components such as the copper coil and dust-proof back cover.

1. Cut a square opening of 76x76mm in the desired panel.

2. Insert the ammeter into the opening from the front.
3. Secure the ammeter using the provided mounting brackets or screws from the rear of the panel. Ensure it is firmly seated.

3.3. Wiring

The ammeter must be wired in series with the load whose current is to be measured. Ensure the circuit voltage and current do not exceed the ammeter's rated specifications.

1. Identify the input and output terminals on the back of the ammeter.
2. Disconnect power to the circuit.
3. Connect the circuit's live wire to one terminal of the ammeter.
4. Connect the other terminal of the ammeter to the load, completing the series circuit.
5. Double-check all connections for tightness and correct polarity (if applicable, though AC ammeters are generally not polarity sensitive for basic current measurement).

Warning: Incorrect wiring can damage the ammeter or the circuit, and poses a risk of electric shock. If unsure, consult a qualified electrician.

4. Operating Instructions

Once installed and wired correctly, the ammeter is ready for operation.



Figure 4.1.1: Front view of the 6L2 AC Milliamp Ammeter, showing the scale and pointer.

1. Ensure the ammeter's rated current range matches or exceeds the expected current in the circuit.
2. Apply power to the circuit.
3. Observe the pointer on the ammeter. The pointer will move along the scale to indicate the measured AC current in milliamperes (mA).
4. Read the value directly from the scale where the pointer rests. For the AC 300mA Direct model, the scale will typically range from 0 to 300mA.

Note: The ammeter is designed for AC current measurement only. Do not use it to measure DC current unless explicitly stated otherwise for a specific model.

5. Maintenance

The 6L2 AC Milliamp Ammeter requires minimal maintenance to ensure accurate and reliable performance.

- **Cleaning:** Keep the ammeter's display and casing clean. Use a soft, dry cloth to wipe away dust and dirt. For

stubborn marks, a slightly damp cloth can be used, but ensure no moisture enters the device. Do not use abrasive cleaners or solvents.

- **Environmental Conditions:** Operate and store the ammeter in a dry environment, away from direct sunlight, extreme temperatures, and corrosive gases.
- **Inspection:** Periodically inspect the wiring connections to ensure they remain secure. Check the ammeter's casing for any signs of physical damage.
- **Calibration:** This ammeter is factory-calibrated. If you suspect inaccurate readings, it may require professional recalibration. Do not attempt to open the device or adjust internal components yourself.

6. Troubleshooting

If you encounter issues with your ammeter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No reading / Pointer does not move	◦ No current in the circuit. ◦ Incorrect wiring (not in series). ◦ Ammeter is damaged.	◦ Verify the circuit is live and current is flowing. ◦ Check wiring connections; ensure the ammeter is correctly installed in series. ◦ If all else fails, the ammeter may be faulty.
Inaccurate reading	◦ Ammeter range is too high or too low for the measured current. ◦ External magnetic fields interfering. ◦ Ammeter requires recalibration.	◦ Ensure the ammeter's range is appropriate for the expected current. ◦ Relocate the ammeter away from strong magnetic sources. ◦ Contact customer support for recalibration services.
Pointer stuck or erratic	◦ Physical damage to the pointer mechanism. ◦ Internal component failure.	◦ Do not attempt to repair. Contact customer support for replacement or repair options.

If the problem persists after attempting these solutions, please contact Musksulod customer support for further assistance.

7. Specifications

Attribute	Value
Model	6L2 Series (e.g., AC 300mA Direct)
Measurement Type	AC Milliampere (mA)
Display Type	Analog Pointer
Instrument Size	80 x 80 mm (3.15 x 3.15 inches)
Panel Opening Size	76 x 76 mm (2.99 x 2.99 inches)

Attribute	Value
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Manufacturer	Musksulod
Country of Origin	China
Number of Pieces	1

8. Warranty and Support

Specific warranty information for the Musksulod 6L2 AC Milliamp Ammeter is not provided in this manual. Please refer to the product packaging or the seller's website for detailed warranty terms and conditions.
For technical support, troubleshooting assistance beyond what is covered in this manual, or inquiries regarding parts and service, please contact your point of purchase or the manufacturer, Musksulod, directly through their official channels.
Manufacturer: Musksulod

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