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SLMLSGB DH-670

SLMLSGB DH-670 Analog DC Current Panel Meter User Manual

Model: DH-670

Introduction

This manual provides essential information for the safe and effective use of your SLMLSGB DH-670 Analog DC Current Panel Meter. Please read these instructions carefully before installation and operation to ensure proper functionality and longevity of the device.

Product Overview

The SLMLSGB DH-670 is an analog panel ammeter designed for measuring direct current (DC) in various electrical systems. It features a clear, easy-to-read scale and a fine-tuning button for precise adjustments. This meter is suitable for monitoring battery and general electrical system current.



Figure 1: Front view of the SLMLSGB DH-670 Analog DC Current Panel Meter, showing the scale and needle.

Specifications

Model	DH-670
Measurement Type	DC Current (Ampere)
Accuracy	Class 2.5
Face Size (L x W)	7 x 6 cm (2.8 x 2.4 inches)
Net Weight	80g (2.8 oz)
Material	Plastic
Package Dimensions	1.18 x 0.79 x 0.39 inches

Assembly Required	No

Setup and Installation

Proper installation is crucial for accurate readings and safe operation. It is recommended that installation be performed by a qualified technician.

1. **Mounting:** Select a suitable panel location for the meter. Ensure there is enough space behind the panel for wiring connections. Cut an appropriate opening in the panel for the meter body, ensuring a snug fit.
2. **Wiring Connections:**
   - Connect the positive (+) terminal of the meter to the positive side of the circuit where current is to be measured.
   - Connect the negative (-) terminal of the meter to the negative side of the circuit.
   - **Important Note for High Current Applications:** For current measurements of 15A and above, a current shunt must be used in conjunction with the DH-670 ammeter. The ammeter should be connected across the shunt terminals. Failure to use a shunt for currents 15A and above will damage the meter.
3. **Secure Installation:** Once wired, secure the meter firmly in the panel using the provided mounting hardware (if applicable).



Figure 2: Rear view of the DH-670 ammeter, illustrating the connection terminals for wiring into a DC circuit.



Figure 3: Diagram showing the dimensions of the DH-670 ammeter for panel cutout and mounting.

Operating Instructions

The DH-670 ammeter is designed for straightforward operation.

1. **Power On:** Once correctly installed and wired, apply power to the circuit. The meter's needle will move to indicate the current flowing through the circuit.
2. **Reading the Scale:** Read the current value directly from the scale indicated by the needle. Ensure you are reading the correct range if your meter has multiple scales or if a shunt is used.
3. **Zero Adjustment:** If the needle does not rest precisely at zero when no current is flowing, use the fine-tuning button (typically a small screw on the front face) to adjust it. Gently turn the screw with a small screwdriver until the needle aligns with the zero mark.



Figure 4: Close-up view of the DH-670 ammeter's scale, highlighting the zero adjustment screw at the bottom center.

Maintenance

The DH-670 ammeter requires minimal maintenance to ensure continued accuracy and performance.

- **Cleaning:** Keep the meter's face clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections to ensure they are secure and free from corrosion. Check the meter's housing for any signs of damage.
- **Environmental Conditions:** Ensure the meter is operated within its specified environmental conditions (temperature, humidity) to prevent damage.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No reading / Needle not moving	• No current in the circuit. • Incorrect wiring. • Loose connections. • Meter damage.	• Verify current flow with another device. • Check wiring against installation instructions. • Tighten all connections. • Replace meter if damaged.
Incorrect reading	• Zero adjustment needed. • Incorrect shunt used (for high current). • Meter damage.	• Perform zero adjustment. • Ensure correct shunt is used for currents 15A and above. • Replace meter if damaged.
Needle stuck or erratic	• Physical obstruction. • Internal damage.	• Inspect for foreign objects. • Contact support or replace meter.

Warranty and Support

For warranty information, technical support, or service inquiries, please contact the manufacturer, SLMLSGB, directly through their official channels. Keep your purchase receipt as proof of purchase.

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