

## Midzoparts DC 200V 0-10A

# Midzoparts DC 200V 0-10A Voltmeter Ammeter Instruction Manual

## 1. INTRODUCTION

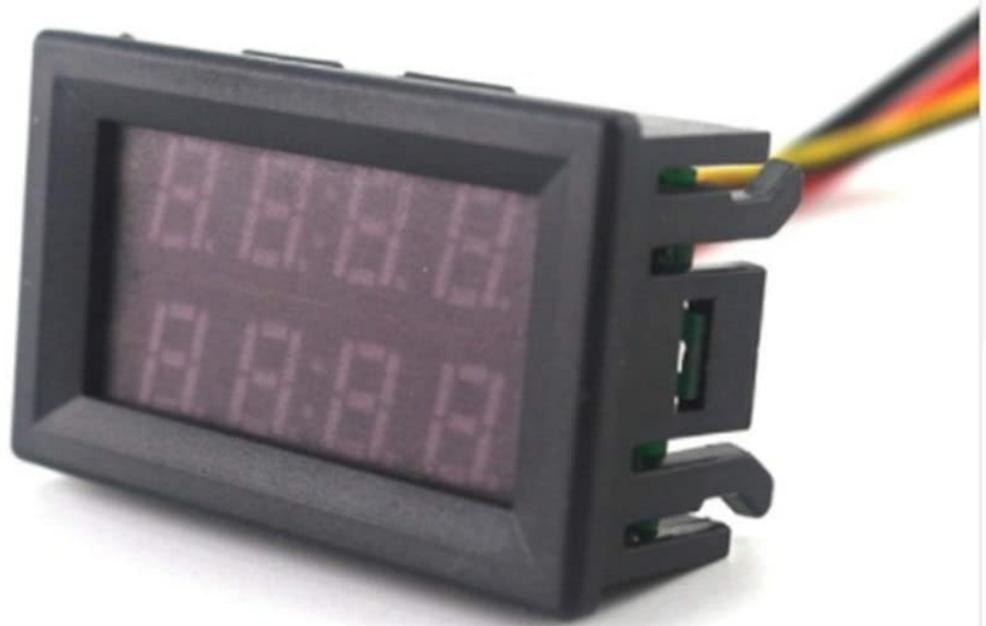
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This manual provides detailed instructions for the installation, operation, and maintenance of your Midzoparts DC 200V 0-10A Voltmeter Ammeter. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

## 2. PRODUCT OVERVIEW

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The Midzoparts DC 200V 0-10A Voltmeter Ammeter is a high-precision digital instrument designed to simultaneously measure DC voltage and current. It features a dual-color LED display for clear readability and is suitable for various applications requiring accurate voltage and current monitoring.



**Figure 2.1:** Front view of the Midzooparts DC 200V 0-10A Voltmeter Ammeter. This image displays the device from the front, highlighting its dual digital display for voltage and current readings.

### 3. SPECIFICATIONS

Parameter	Value
Working Voltage	DC 4V - 28V
Working Current	< 20mA
Display Type	0.28" Dual Color (Blue and Red) LED
Measuring Range (Voltage)	DC 0V - 200V
Measuring Range (Current)	DC 0A - 10A (Built-in Shunt)
Refresh Rate	Approximately 1 second / 3 times
Voltage Measurement Accuracy	Range x 0.08% + Two digits
Current Measurement Accuracy	Range x 0.08% + Two digits

Operating Temperature	-10°C to 65°C
Working Pressure	80 to 106 kPa
Dimensions	48mm × 29mm × 20mm

## 4. SETUP AND INSTALLATION

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Careful wiring is essential for the correct operation of the voltmeter ammeter. Refer to the wiring diagram and descriptions below.

### 4.1 Wiring Instructions

- **Thin Red Line:** Connect to the positive (+) terminal of the power supply for the meter itself.
- **Thick Red Line (IN+):** Connect to the positive (+) terminal of the current input. This is typically connected in series with the load you wish to measure current for.
- **Thick Yellow Line (PW+):** Connect to the positive (+) terminal of the voltage measurement point. This is typically connected in parallel across the voltage source you wish to measure.
- **Thick Black Line (COM):** This is the common ground for both current and voltage measurement, and also for the meter's power supply. Connect to the negative (-) terminal of the power supply and the negative (-) side of the circuit being measured.

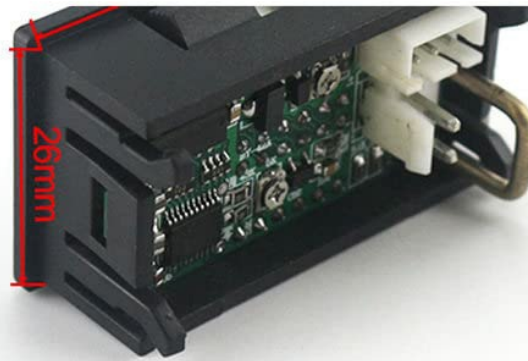


**Figure 4.1:** Rear view of the meter showing the wiring terminals. This image illustrates the connection points for the power supply, current input, and voltage measurement.

## 4.2 Mounting Dimensions

Ensure adequate space for mounting the device. The panel size is 48mm x 29mm, and the mounting depth is 20mm.

Mounting size



Panel size



**Figure 4.2:** Dimensions of the voltmeter ammeter. This image provides the physical measurements for both the panel and the mounting size of the device.

## 5. OPERATING INSTRUCTIONS

Once properly wired and powered, the device will automatically display the measured DC voltage and current on its dual LED screen. The upper display typically shows voltage (red), and the lower display shows current (blue).

- **Voltage Reading:** The upper display will show the DC voltage in Volts (V).
- **Current Reading:** The lower display will show the DC current in Amperes (A).
- The device continuously updates readings at a refresh rate of approximately 3 times per second.

## 6. MAINTENANCE

To ensure the longevity and accuracy of your voltmeter ammeter, follow these general maintenance guidelines:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, high humidity, or corrosive environments.

- Do not attempt to open the casing or modify the internal circuitry, as this may void any potential warranty and could damage the device.

## 7. TROUBLESHOOTING

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If you encounter issues with your device, consider the following basic troubleshooting steps:

- **No Display:** Check the power supply connections (thin red and thick black wires) to ensure they are correctly connected and receiving power within the specified DC 4V-28V range.
- **Incorrect Voltage Reading:** Verify that the thick yellow wire (PW+) and thick black wire (COM) are correctly connected across the voltage source. Ensure the voltage being measured is within the 0-200V DC range.
- **Incorrect Current Reading:** Confirm that the thick red wire (IN+) and thick black wire (COM) are correctly wired in series with the load. Ensure the current being measured is within the 0-10A DC range.
- **Flickering Display:** This could indicate an unstable power supply or interference. Ensure stable power and proper shielding if necessary.

If problems persist after performing these checks, contact the manufacturer or supplier for further assistance.

## 8. WARRANTY AND SUPPORT

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Specific warranty information for this product is not provided in the available documentation. For details regarding warranty coverage, technical support, or service, please refer to the product packaging or contact your retailer or the manufacturer directly.