

D-SUN DSN-VC288 Dual Display DC Voltmeter & Ammeter Instruction Manual



Model: DSN-VC288 | **Brand:** D-SUN | **Certification:** CE Mark

1. Technical Parameters

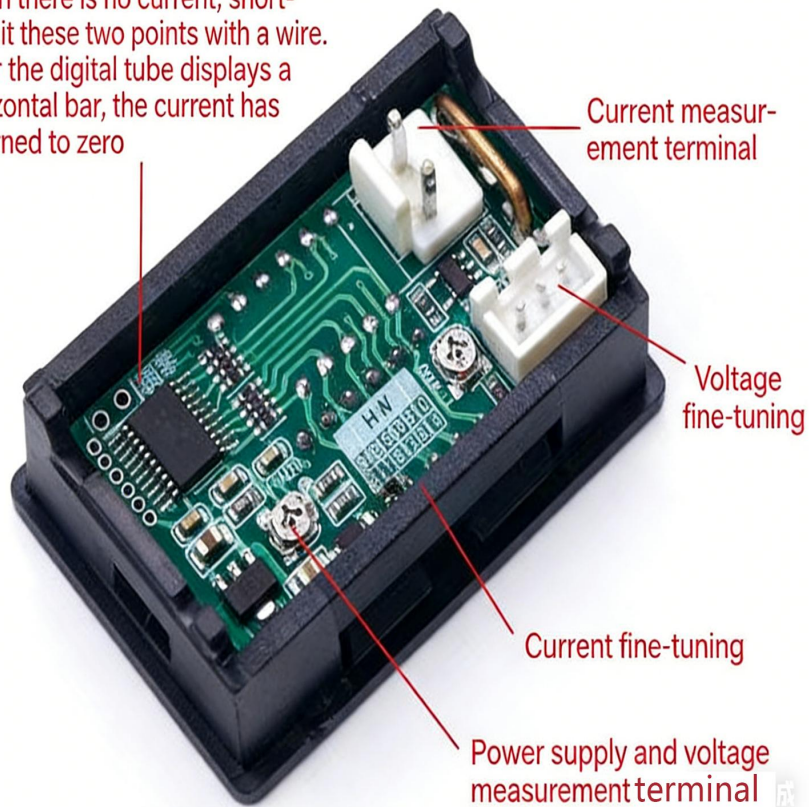
- Voltage Measurement Range: 0.0V - 100V
- Current Measurement Range: 0-10A (Note: 50A/100A rated meters must use a shunt for current measurement, regardless of measured current; otherwise, the meter may burn out.)
- Power Supply Range: DC 4.0V - 30.0V (Overvoltage causes burnout)
- Voltage Accuracy: $\pm 0.1\%$
- Current Accuracy: $\pm 1\%$
- Working Current: $< 20\text{mA}$
- Refresh Rate: $\sim 300\text{ms}$
- Display: Dual 3-digit 0.28-inch LED
- Display Color: Red+Red / Red+Blue (Optional)
- Wire Length: 15cm
- Dimensions: 48×29×22mm (L×W×H)
- Mounting Hole Size: 46×27mm
- Operating Temperature: $-10^{\circ}\text{C} \sim 65^{\circ}\text{C}$

2. Product Usage Instructions

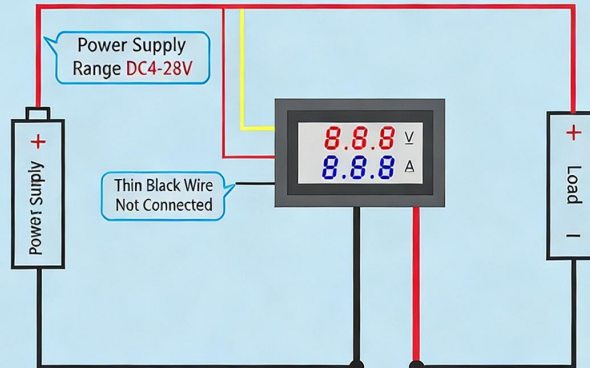
2.1 Wiring Instructions

10A Range: No shunt required. Connect voltage terminals in parallel with the load and current terminals in series with the load; ensure correct polarity (+/-).

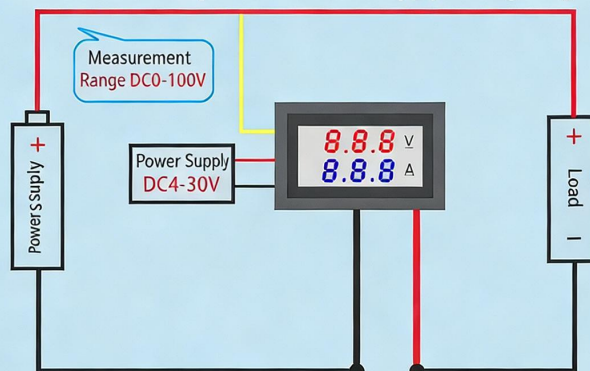
When there is no current, short-circuit these two points with a wire.
After the digital tube displays a horizontal bar, the current has returned to zero



1. 10A Meter Direct Power Supply Wiring Diagram



2. 10A Meter Independent Power Supply Wiring Diagram



2.2 Power Supply

Only DC 4.0V-30.0V. Overvoltage and reverse connection cause permanent damage.

2.3 Measurement Limits

Do not measure voltage exceeding 100V (irreversible damage will occur).

2.4 Installation & Operation

Install according to dimensions. Use within $-10^{\circ}\text{C}\sim 65^{\circ}\text{C}$, avoid high temperature, humidity and corrosion.

3. Usage Restrictions & Warnings

3.1 Usage Restrictions

- Power supply: DC 4.0V-30.0V (no overvoltage).
- Voltage measurement: $\leq 100\text{V}$ (no over-range).
- Disconnect power before wiring, confirm polarity to avoid failure or electric shock.
- Operating temperature: $-10^{\circ}\text{C}\sim 65^{\circ}\text{C}$ (no harsh environment).
- Confirm compatibility before purchase. Non-professionals shall not disassemble or modify the meter. 50A/100A meters must use a shunt (otherwise, the meter will burn out).

3.2 Warnings

- Overvoltage ($> 30.0\text{V}$) burns internal circuit (product scrapped, warranty invalid).
- Over-range voltage measurement ($> 100\text{V}$) damages components (no warranty).
- Incorrect polarity causes meter failure and may damage peripherals. Double-check polarity first.
- Use outside $-10^{\circ}\text{C}\sim 65^{\circ}\text{C}$ or in harsh environment shortens service life and causes safety hazards.
- Unauthorized disassembly/modification leads to failure and safety risks (user assumes responsibility).

4. Applicable Regulations & Standards

EU Standards

EN 61010-1:2010; RoHS 2.0 (2011/65/EU)

Chinese Standards

GB 4793.1-2007; GB/T 26572-2011