DC 0–100V 10A Digital Voltmeter & Ammeter – Dual Display

The **DC 0–100V 10A Digital Voltmeter and Ammeter with Dual Display** is a versatile and precise measurement tool designed for monitoring **voltage and current simultaneously** in DC circuits. This compact device is widely used in **battery management, power supply monitoring, solar energy systems, electric vehicles, and DIY electronics projects**. Featuring **clear digital displays for both voltage and current**, it allows users to monitor circuit parameters in real time, ensuring safety and efficiency.

Its dual display design provides **instant visual feedback** without the need for multiple instruments. Whether you are a **hobbyist, professional engineer, or student**, this device is an essential tool for **measuring DC voltage and current accurately in various applications**.

Key Features of DC 0–100V 10A Digital Voltmeter & Ammeter

- **Voltage Range**: Measures DC voltage from 0 to 100V.
- **Current Range**: Measures DC current up to 10A.
- **Dual Digital Display**: Simultaneously shows voltage (V) and current (A) readings.
- **High Accuracy**: Provides precise measurements for reliable monitoring.
- **Wide Applications**: Ideal for battery systems, solar panels, electric vehicles, and lab setups.
- **Easy to Install**: Compact panel-mount design with simple wiring.
- **LED Backlit Display**: Clear, easy-to-read display for indoor and low-light environments.
- **Low Power Consumption**: Efficient design suitable for continuous operation.
- **Durable Build**: High-quality components for long-term reliability.

Technical Specifications

- **Measurement Voltage Range**: 0–100V DC

- **Measurement Current Range**: 0–10A DC
- **Display Type**: Dual LED display for voltage and current
- **Resolution**: 0.1V / 0.01A
- **Power Supply**: Powered by the measured circuit or separate 5–30V DC supply
- **Accuracy**: ±1%
- **Operating Temperature**: -10°C to 60°C
- **Dimensions**: Compact panel-mount module, easy to integrate into projects
- **Protection Features**: Reverse polarity protection and over-current indication

Why Choose This Digital Voltmeter & Ammeter?

1. **Simultaneous Voltage and Current Measurement** – Dual display ensures **real-time monitoring** without additional instruments.
2. **High Precision and Reliability** – Provides accurate readings for **DC systems up to 100V and 10A**.
3. **Versatile Applications** – Ideal for **battery packs, power supplies, solar energy systems, electric vehicles, and DIY electronics**.
4. **Easy to Install and Use** – Compact panel design and straightforward wiring allow quick integration into any project.
5. **Enhanced Safety** – Monitors current and voltage to prevent overloads and potential damage to electronics.

Applications of DC 0–100V 10A Digital Voltmeter & Ammeter

- **Battery Monitoring**: Track voltage and current in rechargeable battery packs.
- **Solar Energy Systems**: Monitor photovoltaic panel output for voltage and current efficiency.
- **Electric Vehicles**: Keep track of battery performance and motor current.
- **Power Supply Testing**: Measure output voltage and current of DC power supplies.
- **DIY Electronics Projects**: Use in Arduino, Raspberry Pi, or microcontroller-based setups for real-time monitoring.
- **Industrial Equipment**: Ensure safe and precise operation of DC-powered machines.

How to Use the DC 0–100V 10A Digital Voltmeter & Ammeter

1. **Connect the Device** – Wire the voltmeter and ammeter in parallel for voltage measurement and in series for current measurement with the DC load.
2. **Power the Device** – Use the supplied voltage from the circuit or an external 5–30V DC source.
3. **Read Measurements** – Observe the **dual LED display** to monitor voltage and current in real time.
4. **Integrate Into Projects** – Combine with battery packs, solar panels, or DC motors for precise monitoring.
5. **Ensure Safety** – Verify wiring and polarity to prevent damage or inaccurate readings.

This simple process allows **hobbyists, engineers, and educators** to monitor DC circuits efficiently and safely.

Package Includes

- 1 × **DC 0–100V 10A Digital Voltmeter & Ammeter – Dual Display**

Conclusion

The **DC 0–100V 10A Digital Voltmeter and Ammeter with Dual Display** is a versatile, reliable, and precise tool for anyone working with **DC circuits**. Its **dual display, wide measurement range, and high accuracy** make it ideal for **battery management, solar power monitoring, electric vehicles, and electronics projects**.

Whether you are a **professional engineer, student, or electronics hobbyist**, this module ensures safe, real-time monitoring of voltage and current, helping to protect devices and optimize system performance.