

Voltmeter Module with 7-Segment 0.28 inch 0-100V (3 Wires) – Product Description

Introduction

The **Voltmeter Module with 7-Segment 0.28 inch display (0–100V, 3 Wires)** is a compact, accurate, and easy-to-use voltage measurement tool designed for electronics projects, DIY applications, and monitoring DC power systems. With its bright **7-segment LED display**, this voltmeter provides a clear and precise voltage reading, making it an essential component for engineers, students, and hobbyists.

Unlike bulky traditional voltmeters, this **mini digital voltmeter module** is designed for easy panel mounting and simple wiring. It offers wide voltage measurement capability (0–100V DC) and is ideal for real-time monitoring of battery levels, power supplies, and other DC circuits.



Key Features

- **Wide Measurement Range:** Accurately measures DC voltages from **0V to 100V**.

- **Compact Display Size:** Features a small **0.28 inch 7-segment LED display** for clear readings even in low-light conditions.
- **Three-Wire Design:** Separate power and measurement leads for more accurate readings.
- **High Precision:** Provides accurate digital readings with minimal error.
- **Easy to Install:** Simple wiring and compact PCB design suitable for integration into panels or DIY enclosures.
- **Low Power Consumption:** Efficient operation without draining power sources.
- **Bright LED Display:** Available in multiple colors (commonly red, green, or blue) for better visibility.
- **Durable Build:** Made with quality components for long-term use in electronics projects.

Technical Specifications

- **Module Type:** Digital DC Voltmeter
- **Display Type:** 7-segment LED
- **Display Size:** 0.28 inch
- **Measurement Range:** 0V – 100V DC
- **Input Type:** 3-wire system (VCC, GND, Voltage Measurement Input)
- **Operating Voltage:** Typically DC 4.5V – 30V (for powering the display)
- **Accuracy:** $\pm 0.1V$ (varies slightly with input voltage)
- **Refresh Speed:** About 200 ms/time
- **Working Current:** $\leq 20mA$
- **Module Size:** Compact, easy to embed in projects



Photo by ElectroMax

Applications

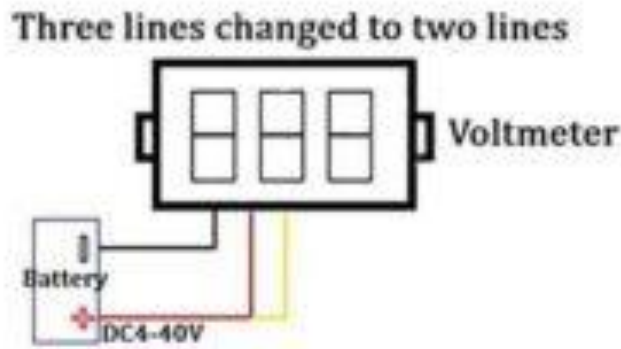
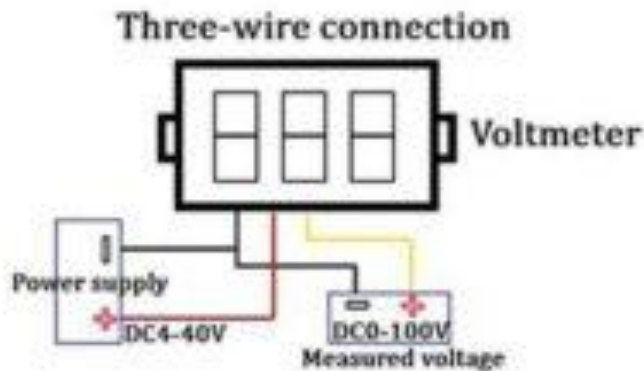
The **Voltmeter Module with 0.28 inch LED display** is versatile and can be used in various projects and applications, such as:

1. **Battery Voltage Monitoring** – Keep track of battery levels in DIY electronics, solar systems, or portable power supplies.
2. **Power Supply Measurement** – Measure DC voltage output from regulated or unregulated power supplies.
3. **DIY Electronics Projects** – A perfect fit for hobby projects requiring real-time voltage monitoring.
4. **Automotive Applications** – Monitor car or motorcycle battery voltage with ease.
5. **Solar and Renewable Energy Systems** – Useful for monitoring solar panel outputs and battery storage systems.
6. **Embedded Systems** – Integrate into enclosures, dashboards, or control panels for professional-grade monitoring.



Advantages of This Voltmeter Module

- **Compact & Lightweight:** Small display size makes it suitable for portable projects.
- **Clear Visibility:** Bright LED 7-segment display ensures easy reading even in low-light environments.
- **Easy Wiring:** Simple three-wire design allows quick installation.
- **Wide Voltage Range:** Suitable for multiple DC measurement needs (0–100V).
- **Reliable & Durable:** Built with high-quality components for consistent performance.



Why Choose This Module?

Unlike analog voltmeters or larger digital multimeters, the **0.28 inch 3-Wire Voltmeter Module** is designed specifically for **embedded electronics and DIY applications**. It provides a perfect balance of **accuracy, convenience, and size**. Whether you're a student working on a school project, a hobbyist creating DIY circuits, or a professional building control systems, this module saves time and effort by giving you instant voltage readings.

It is also highly affordable, making it one of the most cost-effective solutions for continuous voltage monitoring.

Conclusion

The **Voltmeter Module with 7-Segment 0.28 inch Display (0–100V, 3 Wires)** is a compact, reliable, and precise digital voltmeter for monitoring DC voltage in a wide range of applications.

Its easy installation, bright display, and accurate measurement capabilities make it an essential tool for anyone working with electronics, batteries, or power systems.

☞ **Order your Voltmeter Module today and upgrade your electronics projects with accurate, real-time voltage monitoring.**