

Video-12

Making a Digital Voltmeter using Arduino UNO

This project is a **digital voltmeter** built using an **Arduino Uno**, a **16x2 LCD display**, and a **voltage divider circuit** with resistors ($R1 = 90.9k\Omega$ and $R2 = 10k\Omega$). The Arduino reads the input voltage through **analog pin A0**, scales it using the voltage divider formula, and then calculates the actual voltage value. The measured voltage is displayed both on the **serial monitor** and the **LCD screen** in real-time. This project demonstrates how to safely measure voltages higher than 5V using a voltage divider and Arduino.