

# Core Electronics User Guide

Mini Digital Display DC Voltmeter 3-30V Blue

SKU: 018-05-VM-30V-BL-MINI



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## 1. Introduction

This is a 30V DC Voltmeter that operates over a wide voltage range of input voltage (from 3 to 30V). Only two wires are needed to interface this device with the target circuit and the same DC voltage is used for powering the meter from the target circuit.

The PCB assembly has two mounting holes which facilitates users to mount the meter on a panel or another surface.

Applications include project power supply monitoring up to 30V while construction of DIY power supply project using along with Digital Display DC Ammeter (a separate device), monitor battery voltage of a car, motorcycle, truck or bus which have 12v /24v batteries. In addition, monitor UPS, Home Inverter Batteries of 12V/24V or Solar Panel voltage.



### Technical Specification:

- Measuring Range: 3-30V DC
- Error: 1%
- Display: Three digit 0.36" Blue LED Segment Display
- Refresh Rate: 500mS
- Power Supply: 3.0-30V
- Operating Temperature: -10°C to 65°C
- Dimensions: 23x15x10mm (without mounting tabs)
- Panel mounting Hole Size: 24x15mm
- Lead Length: 15cm

### Wiring Details:

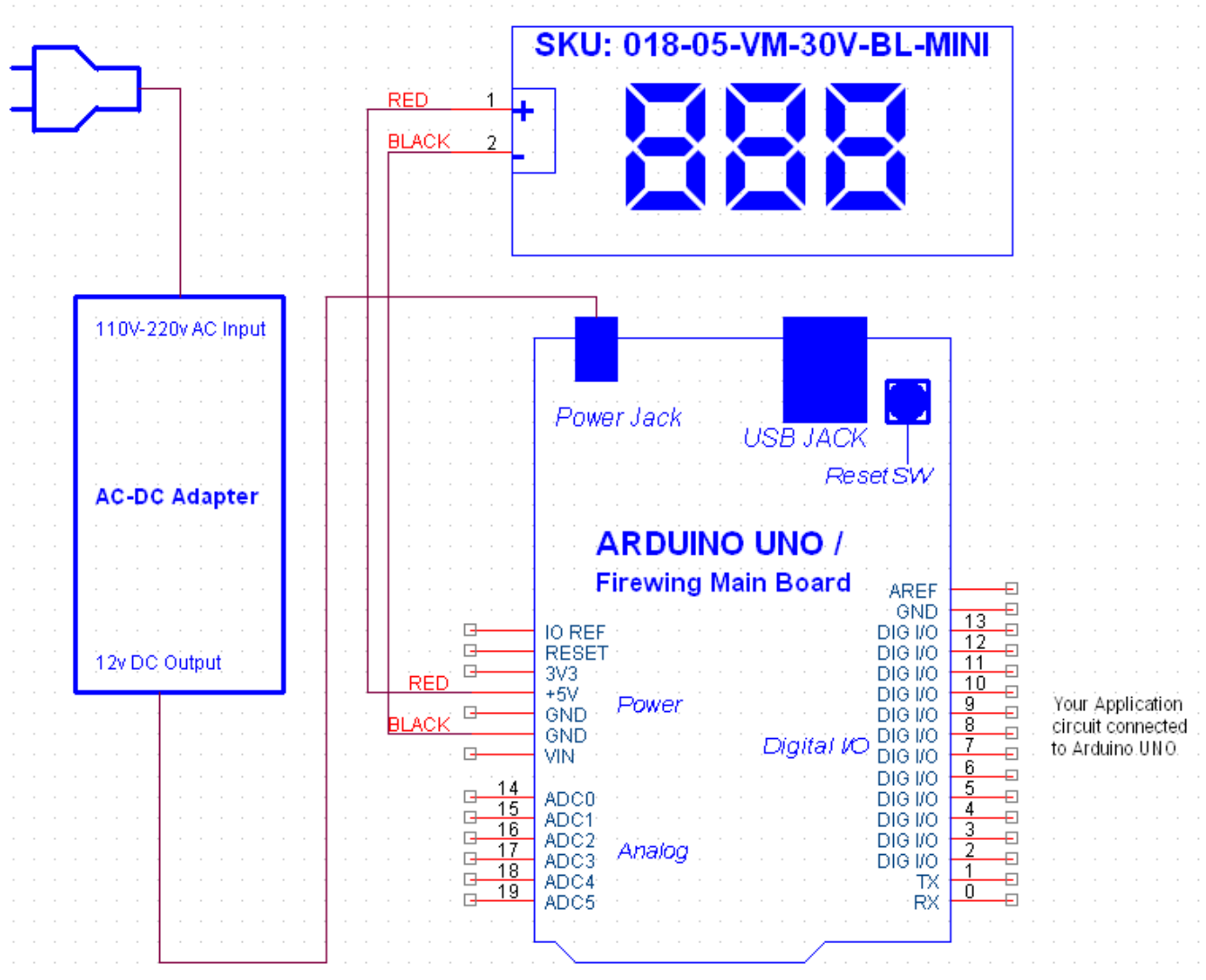
- Red: Power Supply V+, Measure +
- Black: Power Supply V-(GND), Measure –

## 2. Application Circuit

Below is a circuit for monitoring the supply using the digital voltmeter for a Arduino UNO project. The supply voltage and measure voltage for the module are connected in this example; which can be handy for detecting brownouts and the like. The measurement voltage is connected to the RED wire. The ground is connected to the BLACK wire.

## Mini Digital Display DC Voltmeter 0-30V Blue (SKU: 018-05-VM-30V-BL-MINI)

Note - The DC supply voltage should not reduce less than 3 volts and should not be greater than 30V (these are the min/max values of the display).



### **3. Reader Feedback**

Have a suggestion or discovered an error? Let us know and we will fix it! Please contact us via [manuals@core-electronics.com.au](mailto:manuals@core-electronics.com.au) and mention the product SKU and your feedback in the message.

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