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Welcome!

Thank you for purchasing our *AZ-Delivery DSN-VC288 Voltmeter Ammeter Module*. On the following pages, you will be introduced to how to use and set-up this handy device.

Have fun!





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Introduction

The DSN-VC288 Voltmeter Ammeter Module is a device that can measure voltage and current. It is a self-contained module that can measure current up to 10A and voltages up to 100V.

The module can monitor both voltage and current in applications such as solar cells and in many other applications where monitoring the voltage and current is required.

The meter comes with two sets of wires that plug into connectors on the back of the module. One set (thicker wires) is used to connect the module between the power source and load to measure the current, and the second set for powering the module and for measuring the voltage.

Depending on the voltage of power source the module can be connected in few ways. Two distinctive ways can be used. The module can be connected on separate power supply if the maximum voltage does not exceed the 30V; then the power supply wires can be connected to the same source as load. If the power supply voltage exceeds maximum module rating of 30V, then the separate power supply for the module has to be used.

Specifications

Voltage measurement range	0 to 100V max.
Current test range	0-999mA, 0-10A, 0-50A,0-100A
Power supply range	4,5-24V
Operating current	<20mA
Voltage measurement error	±0.1%
Current measurement error	±1%
External shunt specification	75mV
Display method	2 by 3, 0.28in 7 Segment LED
Mounting holes	46x27mm
Operating temperature range	-10°C -65°C
Dimensions	48x29x22mm (1.8x1.1x0.8in)

The module shows measuring values in two colors. The Ammeter part of the display shows values in blue color, and the Voltmeter in red.

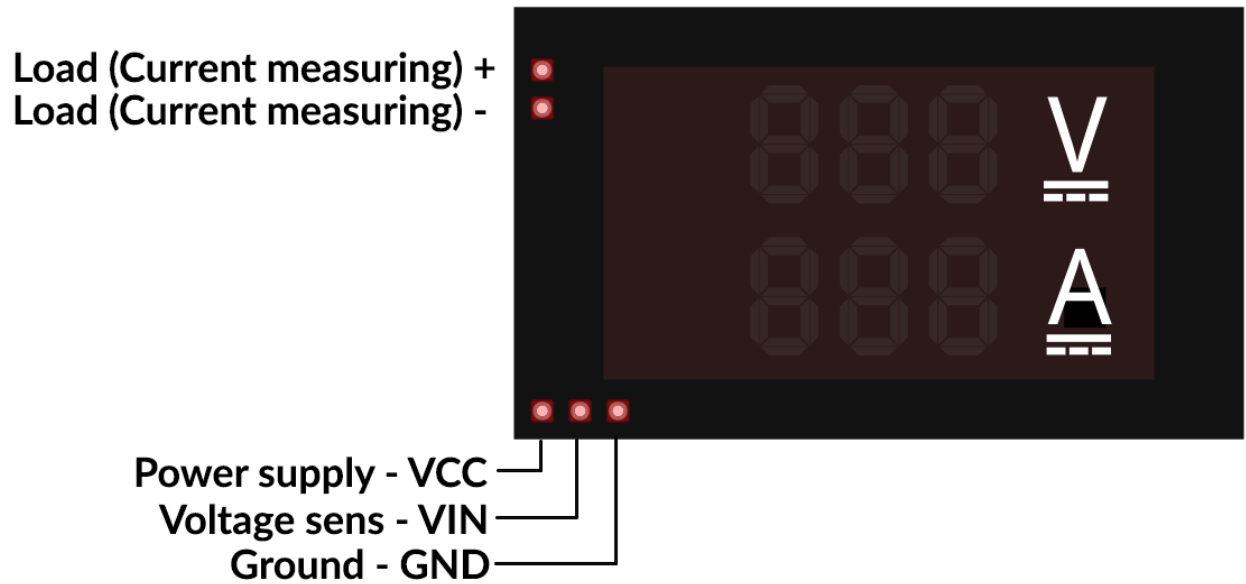
Module has a built-in shunt which can withstand up to 10A of current.

NOTE: The current can be measured in the positive direction only. If the display is not showing the current reading, ensure that the large black and red wires are not connected backwards.

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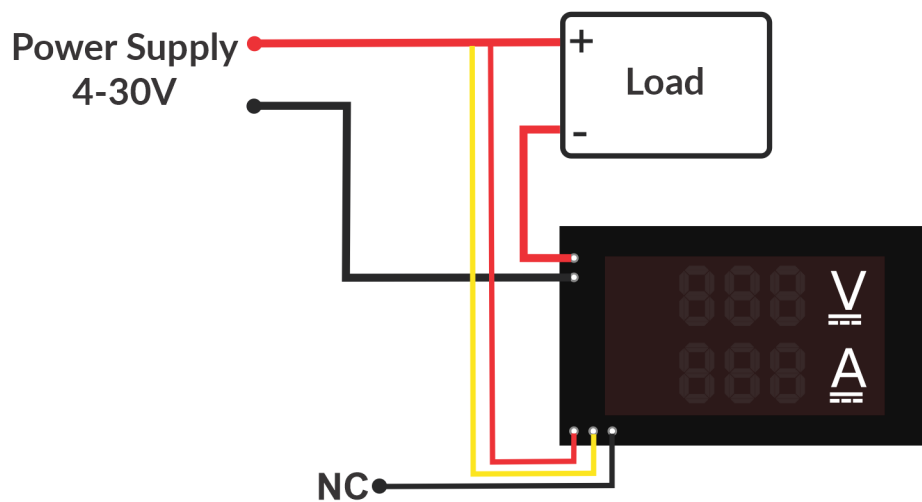
The pinout

The module has five wires. The pinout is shown on the following image:



Connection examples

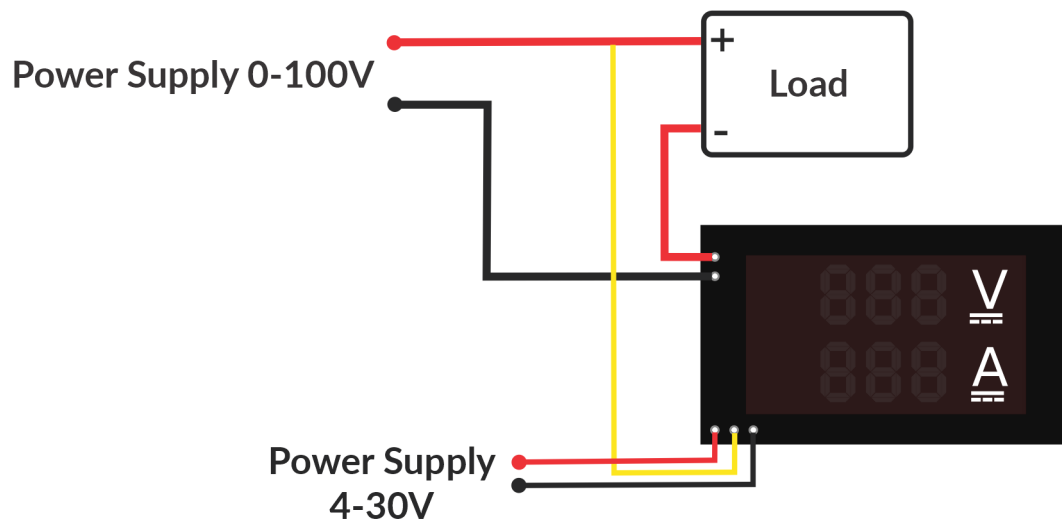
The following images is an example how to connect the module on same power supply as the load:



This is the typical application where module is connected on the same power supply as the load. The maximum voltage should not exceed 30V.

External power supply

The following images is an example how to connect the module with separate power supply:



This type of wiring is used when power supply voltage is more than 30V and up to 100V. In that case, external power supply for the module is required.

WARNING: Connecting the module wires on power supply that has voltage greater than 30V will destroy the module.

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Now it is the time to learn and make your own projects. You can do that with the help of many example scripts and other tutorials, which can be found on the Internet.

If you are looking for the high quality products for Arduino and Raspberry Pi, AZ-Delivery Vertriebs GmbH is the right company to get them from. You will be provided with numerous application examples, full installation guides, eBooks, libraries and assistance from our technical experts.

<https://az-delivery.de>

Have Fun!

Impressum

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