

EXPERIMENT 2

CALIBRATION OF AMMETER AND VOLTMETER

AIM:

To calibrate the given Ammeter and Voltmeter using Ohm's Law.

PRINCIPLE:

Calibration of both Ammeter and Voltmeter is done based on the principle of Ohm's Law. Ohm's law states that the current through a conductor between two points is directly proportional to the voltage across the two points.

$$V = IR \text{ or } I = V/R$$

APPARATUS REQUIRED:

DC Power Supply, Ammeter (0-30mA), Voltmeter (0-30V), Resistor (1K Ω), Bread board and connecting wires.

THEORY:

- Calibration is the act of comparing a device under test of an unknown value with a reference standard of a known value
- It is performed to determine the error or verify the accuracy of the device under test's unknown value.
- A voltmeter is an instrument used for measuring electric potential difference between two points in an electric circuit. Calibration is performed on the voltmeter in order that it gives accurate readings.
- Similarly an Ammeter is a measuring instrument used to measure the current in a circuit. This also has to be calibrated in order for it to work properly

CIRCUIT DIAGRAM:

Calibration of Voltmeter:



Lab Manual Calibration Of Voltmeter

Mr. Rohit Manglik



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Physics Laboratory Manual Daniel Leslie Rich,1923 *Laboratory Manual of Applied Electrochemistry* Cornelius Sherman Grove,George Hamilton Montillon,1939 *A Laboratory Manual of Experiments in Physics* Leonard Rose Ingersoll,1925 **Dynamo Laboratory Manual** William Suddards Franklin,1919

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