

Ohm's Law

Lab-report in Physics
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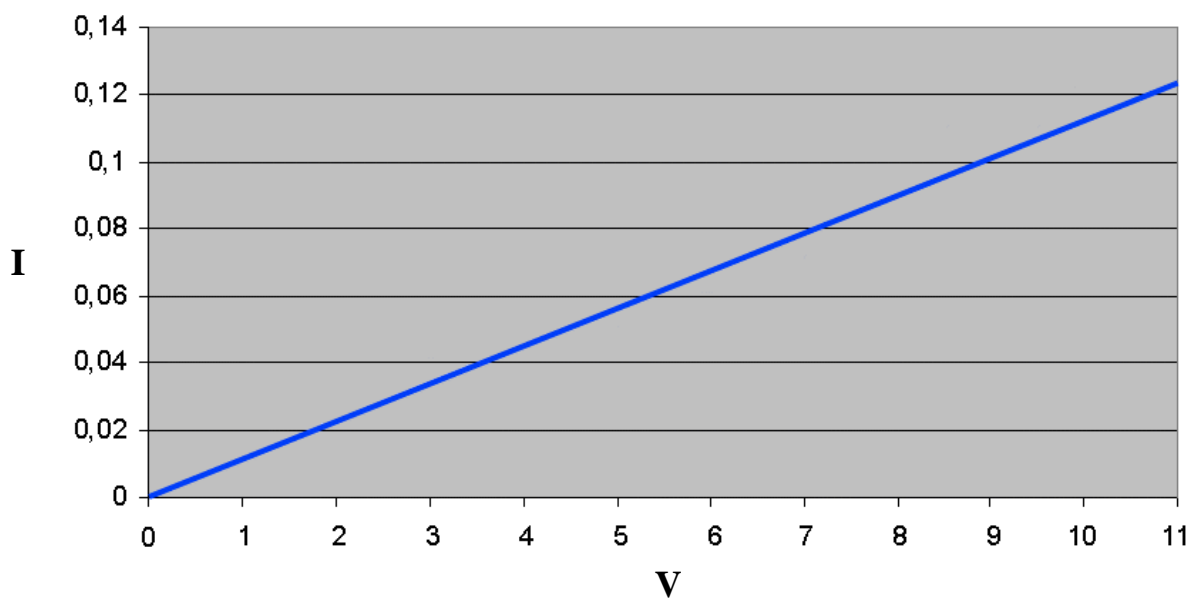
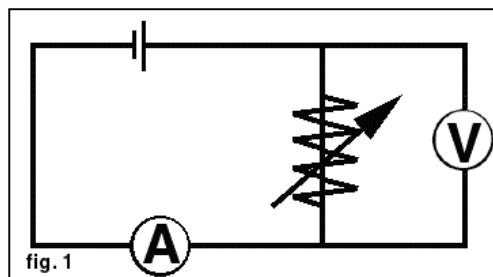
The aim of this experiment is to verify Ohm's law; $V = IR$. And this is done quite easy with use of:

- one potentiometer
- one voltmeter
- one ammeter
- and a battery

We simply connected the components as shown in the diagram below (fig 1).

Then we started to measure, and changed the potentiometer so that both the voltmeter and the ammeter changed. Here is a table of the results:

V	I
3.51	0.038
3.63	0.039
3.77	0.040
3.95	0.042
4.23	0.045
4.99	0.053
5.77	0.062
6.94	0.074
8.84	0.095
11.63	0.125



As you can see, it works perfectly. It is a straight line as the equation tells us.