



## Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Electromagnetism. The Oersted experiment and electromagnetism. The right-hand rule for a straight conductor, which relates the orientation of the magnetic induction lines to the direction of the electric current flowing in the conductor. Observing the electromagnetic effect around straight conductors carried by an electric current. The direction of the magnetic induction field vector at a point above the rectilinear conductor, as a function of the direction of the electric current flowing through it. The direction of the magnetic induction field vector at a point below the rectilinear conductor, as a function of the direction of the electric current flowing through it. Knowledge from the Oersted experiment, applied to a loop. What is meant by ideal loop in electromagnetism. The direction of the magnetic induction field vector at a point inside a conducting loop as a function of the direction of the electric current flowing through it. The right-hand rule that relates the direction of electric current to the direction of the magnetic induction vector around the conducting wire of a loop. Faradays law, Faraday-Lenz law, Faraday-Lenz-Neumann law, electromagnetic induction, electromagnetic phenomena. Electromagnetic induction. Magnetic flux. Faradays law of electromagnetic induction. The direction of the induced electric current depends on the direction of variation of the source magnetic flux on the conductor, in this case, the turns of the coil. Lenzs law of electromagnetic induction. The right-hand rule, which relates the direction of the electric current in the turns (coil) with the direction of

the magnetic field induced by it. The Faraday-Lenz-Neumann law for electromagnetic induction, etc.  
Note: Batteries are not included. It also allows its use with other DC sources.

## Knowledge areas

Physics - Compact Kits

## Level

Graduation - High school

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