

Magnet Field Demonstrator

Straight Conductor



EM2067-010

Description:

This Magnetic Field Demonstrator consists of a rectangular coil passing through a transparent base plate to provide two vertical conductors to carry current so the field shape around a straight conductor can be demonstrated. Can be used on an overhead projector.

By using plotting compasses on the base plate, the magnetic field formed around conductor can easily be seen and studied. Iron filings respond slightly but compasses are better.

Instructions:

Place the demonstrator on a table or on an overhead projector. Plotting compasses are used to show the magnetic field and iron filings respond gradually by tapping the base. Connect to a DC power source. **DO NOT EXCEED 2V.DC. Maximum current through the coil is 5 amps. DO NOT OVERHEAT THE COIL.**

The coil has 10 turns of copper wire and about 3 or 4 amps should be enough to provide a magnetic field to provide a good demonstration. When projected to the wall or to a screen, large sharp images will enhance the demonstration for the whole classroom.

Length: 140mm	Width: 96mm	Height: 83mm	Weight: 100g
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Designed and manufactured in Australia