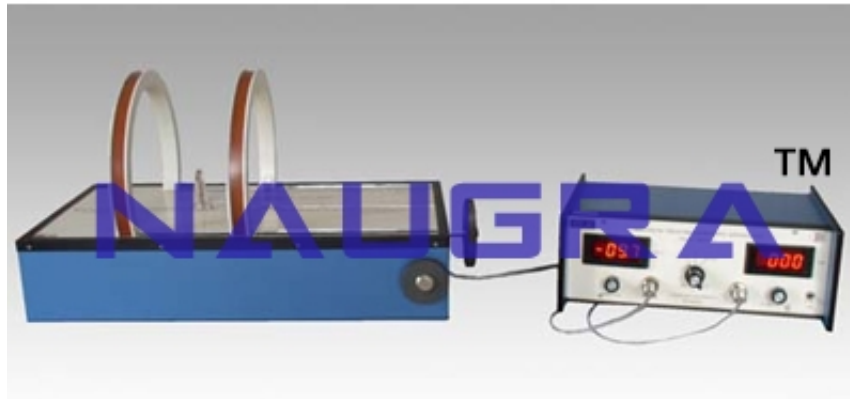


Product Name :
Magnetic Field Measurement Apparatus for Physics Lab for High School
Science Kits Lab

Product Code :
HS-LAB0001



Description :

Magnetic Field Measurement Apparatus for Physics Lab - The experiment consists of two coils, Constant Current Power Supply and Gaussmeter. The Gaussmeter probe is mounted on a rail with a scale. It can move smoothly and precisely for measurement of magnetic field along the centre of the coils.

The following studies can be carried out with the set-up:

1. Study of magnetic field due to one coil and calculation of its diameter.
2. Study of principal of super-imposition of magnetic field due to 2 coils by keeping the distance between the coils at a, greater than a and less than a, where a is the radius of the coil.

Legend:

Line 1 Magnetic Profile when the distance between the coils is greater than a

Line 2 Magnetic Profile when the distance between coils is equal to a

Line 3 Magnetic Profile when the distance between coils is less than a – Superimposition overlaps completely

Apparatus consists of the following:

1. Digital Gaussmeter

Range: 0-200

Resolution: 0.1G

Accuracy: 0.5%

Display: 3½ digit 7 segment LED with autopolarity.

2. Two Coil

Diameter: 200mm

Number of turn: 1000

3. Constant Current Power Supply

Current: 0-0.5A Smoothly adjustable

Line Regulator: 0.2%for 10% mains variation.

Load Regulator: 0.2 % for 0 to full load.

Display: 3½ digit 7 Segment LED Display.

Protection: Against overload/ short current.

The 2 coils are mounted on platform one coil is fixed and other coil move smoothly on a rail along with the axis of the coils.

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