



THE LAB EQUIPMENT

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Product Name :

A.C. Generator

Product Code :

SLE/EAM/38



Description :

As the field through the coil changes a current is induced in the coil and this is brought out to two 4mm sockets.

A permanent magnet rotates inside a coil of wire.

This apparatus is designed to enable students to investigate the properties of an a.c. generator as used in a bicycle dynamo.

The output can be displayed on a centre-zero moving coil voltmeter or oscilloscope.

The unit is transparent to show all the inner workings and is a convenient hand held device with a direct drive (no gearing) to the rotating magnet.

Because of the geometry of the mechanism the output is not a simple sine wave and if a PC oscilloscope is used to store the trace, the waveform can be studied in more detail.

The output swings from + to – each revolution and is about 0.5V peak to peak. With the magnitude varying with speed.

Weight: 120g

Dimensions: L x W x H: 150 x 55 x 55

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