

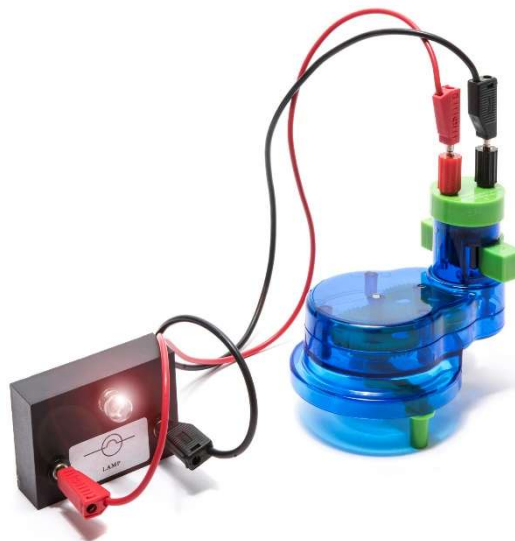


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IPC Irwin Hand Electricity Generator

Part Number: IRHDR

User Instructions



INTRODUCTION.

The IPC Irwin Hand Generator, often called a Hand-Cranked Generator or Hand-Powered Dynamo, can be used for various interesting experiments to demonstrate the principles of electromagnetism, energy conversion, and physics. Essentially the Hand Generator is a simple and ideal way of teaching children & students how to generate electricity.

DESCRIPTION.

This lightweight yet sturdy 1 to 3VDC Hand Generator is great for demonstrating the conversion of mechanical energy into electrical energy. Ideal to use in experiments that explain the mechanism of generating power in a very easy and entertaining way. The clear plastic casing allows the internal mechanism to be seen operating while in use.

A dual colour LED, located between the connectors, demonstrates the direction of the current when turning the handle, in addition the ability to reverse the magnet on the generator also allows the ability to change the current flow.

The simple design allows a range of items to be connected to the Hand Generator via the Red and Black 4mm socket, such as Incandescent Bulbs, Small Motors, LEDs etc. not to mention DC Voltmeters and DC Milliammeters.

IPC Irwin

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INSTRUCTIONS.

Simply rotate the handle in either direction to generate electricity, changing the direction of rotation changes the direction of the current flow, as shown by the LED incorporated on the Generator. By changing the speed of rotation, the level of Voltage and therefore amount of Current can be demonstrated, i.e. more energy in - more energy out.

The Generator's removable magnet can also be reversed to demonstrate that the North and South poles of a magnet control the direction of the current flow.

SPECIFICATIONS.

Generated Voltage	= 1 to 3VDC (depending on the speed the handle is rotated).
Connections	= Red & Black 4mm Sockets.
Dimensions	= 110mm x 80mm x 120mm
Mass	= 0.15kg
Current Indication	= Forward Flow (LED Green) & Reverse Flow (LED Red).

Please Note: This Equipment is for Education, Training, or research Purposes Only.

Thank you for choosing this IPC Irwin product, which has specifically been designed for education, and we know it will bring you good service long into the future. This is just one product of a wide range of UK designed and manufactured products to enhance a STEM education. Please see www.ipcirwin.com website for more details on the products and service we provide to support teaching and learning in science and technology.

IPC Irwin also provide Portable Appliance Testers and a Calibration service, for more details please go to www.ipcirwin.com or call our sales and technical support line on 015395 58555.



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