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Product Name :

Lost Volts

Product Code :

SLE/EAM/19



Description :

Lost Volts (Product Code: SLE/EAM/19) is a self-contained apparatus for finding the EMF and internal resistance of a cell by experiment. Seven appropriately rated resistors and a push switch are housed in one unit, so students connect a single source, a voltmeter and an ammeter instead of wiring up a row of loose resistors. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for school and college laboratories that want a quicker, tidier version of this classic piece of physics practical equipment for CBSE and similar syllabuses.

Specifications

Parameter	Detail
Purpose	Experimental determination of the EMF and internal resistance of a cell
Load resistors	Seven appropriately rated resistors housed in the unit
Switch	Push switch, reducing unnecessary battery drain and excessive heat in the resistors
Source required	6V DC source of EMF
Meters required	One voltmeter and one ammeter
Design advantage	Removes the complications of wiring separate resistors

Typical Use

The name comes from the idea behind the experiment: when a cell drives current through a load, part of its EMF is “lost” across its own internal resistance, so the terminal voltage falls as the current rises. With the 6V DC source connected, the ammeter placed in series and the voltmeter across the source terminals, students press the push switch and record a voltage and current pair with each built-in resistor in circuit. Plotting terminal voltage against current gives a straight line whose intercept on the voltage axis is the EMF and whose gradient gives the internal resistance.

Because the switch only passes current while it is held down, the cell is not left discharging between readings and the resistors do not warm up, which keeps successive readings consistent through a practical period. It is a useful addition to any school physics lab equipment in India where the internal-resistance practical is run by several groups at once. Tip: take each reading promptly after pressing the switch, then release it before changing the load.

Manufacturer

Lost Volts is built by **Jain Scientific Equipments Private Limited**, a company in Ambala, Haryana that sells its teaching apparatus under the ScienceLab name to schools, colleges and distributors. More about the business and its electricity and magnetism range is on our company profile page.

Related Electricity and Magnetism Equipment

Items