Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Ballistic Galvanometer

Product Code :

SLE/CH/90



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Description :

The **Ballistic Galvanometer** (Product Code: SLE/CH/90) is a sensitive moving-coil instrument built to measure the total electric charge carried by a short pulse of current, rather than a steady current. Its heavy, slowly swinging coil receives the whole pulse before it starts to move, so the size of its first swing, or throw, indicates the charge that has passed. Physics departments in colleges and senior schools use it for capacitor and electromagnetic induction experiments, and it belongs among the physics lab instruments in India that make these classic practicals possible. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Key Details

Parameter	Detail
Type	Ballistic galvanometer (moving-coil instrument)
Purpose	Measuring the charge passed in a brief current pulse
Suitable for	Capacitor discharge, comparison of capacitances, flux measurement with a search coil
Users	College and senior-school physics laboratories
Range, sensitivity and dimensions	Confirmed on enquiry

Typical Use

A typical practical charges a capacitor from a known voltage and then discharges it through the galvanometer: the throw is proportional to the stored charge, so repeating the test with a second capacitor lets students compare the two capacitances. With a search coil connected, the galvanometer records the charge induced when the coil is pulled out of a magnetic field, giving a measure of the magnetic flux. Other undergraduate experiments use it to study mutual inductance and to find very high resistances by the leakage method.

Set the galvanometer on a firm, level bench away from vibration and magnets, and let the coil come to rest before each reading. Record the first throw only, then use a short-circuit or damping key to stop the coil before the next test. Keep the coil clamped, or the terminals shorted, whenever the instrument is moved, as this protects the delicate suspension.

Manufacturer

This instrument is built by **Jain Scientific Equipments Private Limited**, which markets its range as **ScienceLab** from Ambala, Haryana, India. For company background, see the company profile.

Related Laboratory Equipment

Items commonly used in ballistic galvanometer experiments:

- Capacitor (Charging and Discharging) — the circuit whose discharge the galvanometer