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Product Name :

Galvanometer, Centre Zero Universal Meter

Product Code :

SLE/PHY/182



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Description :

Galvanometer, Centre Zero Universal Meter (Product Code: SLE/PHY/182) is a sensitive moving coil galvanometer reading 50 µA-0-50 µA, used to detect very small currents and their direction in school and college physics practicals. Also called a universal galvanometer, it is electrically identical to the universal meter, with a 1000 ohm movement and diode protection against overload up to 12 V DC. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its range of physics lab equipment in India.

Specifications

Parameter	Detail
Type	Centre zero universal meter (universal galvanometer)
Range	50 µA-0-50 µA
Movement	Moving coil, 1000 ohm
Overload protection	Diode protection up to 12 V DC
AC use	Suitable as an indicator in slow AC
Electrical design	Identical to the universal meter
Product code	SLE/PHY/182
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Centre Zero Universal Galvanometer Used For?

A 50 microamp range makes this meter respond to the tiny currents produced in induction experiments, and the centre zero shows at a glance which way each current flows. Because it works as an indicator in slow AC, it can follow a current that reverses slowly — for example a coil with a magnet swinging back and forth in front of it, where the needle moves left and right with every reversal.

The stated 1000 ohm movement and 50 microamp range also give students the two values they need to calculate a shunt for an ammeter or a series resistance for a voltmeter, a standard exercise in physics practical equipment CBSE syllabuses. The diode protection helps the meter survive wiring mistakes, but a high series resistance should still be used for first trials.

What to Specify When Ordering

- Number of meters, for example one per practical group.
- Whether you need this sensitive 50 µA centre-zero meter or a less sensitive 50-0-50 galvanometer.
- Any leads, coils or resistances to include for induction or meter-conversion practicals.

Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, which manu
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intern

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