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Product Name :

Micro Voltmeter

Product Code :

SLE/PHY/245



Description :

Micro Voltmeter (Product Code: SLE/PHY/245) is a battery-powered, high-sensitivity voltmeter used to measure very small potential differences in school and college physics laboratories, as an effective and robust replacement for a spot galvanometer. It offers nine ranges starting at 100 µV, a large moving coil meter with push-button auto-zero, and 4 mm or UHF inputs. It is supplied to laboratories by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

Specifications

Parameter	Detail
Instrument type	Microvoltmeter with a large moving coil meter
Measurement ranges	9 ranges, starting at 100 µV (ask us for the complete range list)
Zeroing	Auto-zero by membrane button switch
Input impedance	10 M? per volt, maximum 30 M?
Inputs	4 mm sockets, or UHF socket for very low voltages where a shielded lead is preferred; 4 mm socket for the negative input
Power	PP3 9 V battery
Dimensions	208 x 155 x 115 mm (W x H x D); height including handle 187 mm
Replaces	Spot galvanometer
Product code	SLE/PHY/245
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Micro Voltmeter Used For?

The Micro Voltmeter measures potential differences far too small for an ordinary school voltmeter, such as the output of a thermocouple, the voltage across a low resistance or the small emf induced when a magnet moves near a coil. Its input resistance is considerably better than that of a spot galvanometer, so it draws very little current from the circuit and disturbs the experiment less.

Where schools in India once relied on a galvanometer, the meter also serves as a sensitive null detector for Wheatstone bridge and potentiometer experiments. Press the membrane button to auto-zero before each set of readings, begin on a less sensitive range and step down, and use the UHF socket with a shielded lead at the lowest voltages to reduce pick-up. Remove the PP3 battery if the meter is to be stored for a long time.

What to Specify When Ordering

- The number of meters needed for demonstration or student benches.
- Whether 4 mm leads or a shielded lead for the UHF socket should be quoted, as leads are
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