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Product Name :

Digital Voltmeter

Product Code :

SLE/EAM/05



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Description :

Digital Voltmeter (Product Code: SLE/EAM/05) is a battery-powered bench meter that reads DC potential difference from 0 to ±20 V with 0.01 V resolution, giving students a clear numerical display for circuit practicals. It sits alongside the other digital measuring instruments in a school or college electricity lab and is housed in a robust ABS and PVC case built for daily handling. The meter is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Range	0 to ±20 V DC
Resolution	0.01 V
Accuracy	±2%
Input impedance	10 M? approx.
Power	9 V PP3 battery
Battery saving	Auto-off after approximately 50 minutes
Battery indicator	LED prompts when the battery needs changing
Case	Robust ABS and PVC housing
Materials	PVC, ABS, acrylic
Dimensions	110 x 100 x 70 mm
Weight	250 g

Typical Use

Connected in parallel across a resistor, lamp or cell, the voltmeter supplies the potential-difference half of every Ohm's law experiment, series-and-parallel circuit investigation and cell EMF measurement in the syllabus. Its high input impedance means the meter draws almost no current, so the reading reflects the circuit rather than the instrument, and the 0.01 V resolution lets students see the small drop in terminal voltage when a cell starts supplying current. Because the range covers both polarities, a reversed connection simply shows a negative value, which turns a common wiring slip into a lesson about polarity instead of a damaged meter.

For a class set, the auto-off feature matters: a meter left on at the end of a lesson switches itself off after roughly 50 minutes instead of draining its PP3 overnight, and the LED warning tells the technician which units need a fresh battery before the next practical. The compact 250 g case sits easily on a crowded bench next to a power supply and an ammeter.

Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited (CIN U293
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