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Product Name :

Digital Ammeter

Product Code :

SLE/EAM/09



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Description :

Digital Ammeter (Product Code: SLE/EAM/09) measures direct current from 0 to ±10 A and shows it to 0.01 A, so one meter covers both small lamp circuits and the heavy currents used in electromagnetism demonstrations. Running from a 9 V PP3 battery, it needs no mains connection on the bench, which makes it a practical addition to the physics lab instruments used in school and college practicals. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, among its school physics lab equipment in India.

Specifications

Parameter	Detail
Range	0 to ±10 A DC
Resolution	0.01 A
Accuracy	±2%
Input impedance	0.01 ? approx.
Power	9 V PP3 battery

Typical Use

The meter is wired in series with the component being studied, and its very low input impedance means it adds almost nothing to the resistance of the circuit, so the current it shows is the current that would flow without it. Together with a voltmeter it forms the familiar ammeter-voltmeter pair for Ohm's law, resistivity and power experiments, and the bipolar range shows a minus sign rather than a damaged movement if a student connects it the wrong way round.

The upper end of the range is where this meter earns its place. Demonstrations such as the magnetic field around a vertical wire or the force on a current-carrying conductor need several amperes, well beyond many general-purpose classroom meters, and this ammeter lets the class read the actual current rather than guess it. One rule is worth repeating before every practical: an ammeter must never be connected directly across a power supply or cell, because its low impedance would effectively short-circuit the source.

Manufacturer

Jain Scientific Equipments Private Limited, operating under the ScienceLab trade name in Ambala, Haryana, produces this ammeter as part of its range of meters and circuit apparatus for schools, colleges and technical institutes. Company background is available on the ScienceLab profile.

Related Electricity and Magnetism Equipment

The following items are used in the same circuits and demonstrations as this ammeter:

- Digital Voltmeter — the partner meter for potential difference in the same practical.
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