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Product Name :

Decade Resistance Box

Product Code :

SLE/EAM/35



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Description :

The **Decade Resistance Box** (Product Code: SLE/EAM/35) lets students dial in any whole-ohm resistance from 1? to 9999?, using four decades of 1% tolerance resistors. Physics teachers useit wherever a circuit needs a known, adjustable resistance — Ohm's law, bridge circuits, potential dividers and meter-range work. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, and is a practical resistance box for India lab benches in schools,colleges and technical institutes.

Specifications

Parameter	Detail
Type	Four-decade resistance box
Range	1? to 9999?
Step size	1?
Resistor tolerance	1%
Power rating	1W continuous
Maximum current	0.35A
Connections	4mm sockets, which also allow use as a potential divider

Typical Use

In an Ohm's law experiment kit the box replaces a drawer full of loose resistors: students set a value, record current and voltage, change one decade and repeat, so the relationship between resistance and current emerges from a single tidy circuit. It also serves as the known arm of a Wheatstone or meter bridge, where the fine 1? steps let a class balance the bridge closely, and as a series resistor when extending the range of a meter. Wired through its 4mm sockets as a potential divider, it provides a chosen fraction of a supply voltage for sensor or component tests.

Before switching on, check that the current through the selected setting will stay below the 0.35A maximum and that dissipation stays within the 1W continuous rating — at low resistance settings even a modest supply voltage can exceed these limits. Setting all decades to a high value first and working downwards is a simple habit that protects the resistors.

Manufacturer

Jain Scientific Equipments Private Limited builds this decade box in Ambala, Haryana, and markets it to teaching laboratories under its ScienceLab brand. The company's range covers physics, chemistry, biology and engineering teaching apparatus; our company profile gives an overview of the business.

Related Electricity and Magnetism Equipment

Appa

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