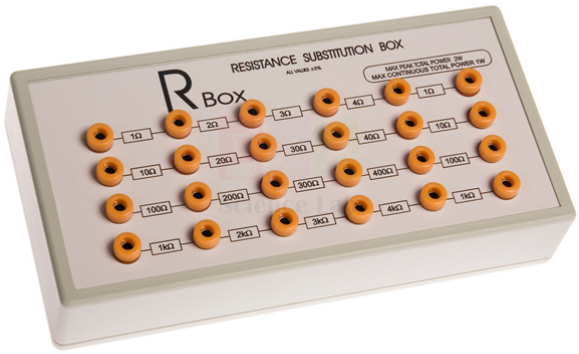
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Resistance Substitution Box

Product Code :

SLE/EAM/07



Description :

Resistance Substitution Box (Product Code: SLE/EAM/07) is a robust resistance box for the physics lab that lets students build any value from 1 to 12,221 ? by linking its internal resistors in series through 4 mm sockets. A printed connection diagram on the panel shows exactly which sockets to join, so the box works equally well as a known resistor, a variable load or a stand-in for an unknown component. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, an OEM maker and physics instruments supplier in India.

Specifications

Parameter	Detail
Resistance range	1 to 12,221 ?
Selection method	Resistors selected with 4 mm sockets and arranged in series
Power rating	2 W
Panel	Clear connection diagram on the main panel
Construction	Robust box design

Typical Use

The name describes its classic job: the substitution method. Students measure the current through an unknown resistor, swap the box into its place and adjust the selected value until the meter shows the same reading; the box setting then equals the unknown resistance. The same box serves as the known arm when balancing Wheatstone bridge experiments, as a stepped load for plotting current against voltage, and as a series resistor when a lamp or LED needs its current limiting.

Because every resistance is made by joining sockets rather than turning a dial, the circuit on the panel matches the circuit diagram in the notebook, which helps students connect the idea of resistors adding in series with a real measurement. Keep an eye on the 2 W rating: at low resistance settings, a higher supply voltage can push the dissipated power up quickly, so check the expected current before switching on and start at a modest voltage.

Manufacturer

This box is built by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana, and is a registered MSME manufacturer (Udyam UDYAM-HR-01-0003714); export consignments are shipped under Importer-Exporter Code AAECJ8618A issued by the DGFT. Visit the company profile to learn more about ScienceLab.

Related Electricity and Magnetism Equipment

To wire the box into a measuring circuit, buyers commonly add:

- Stackable Leads — 4 mm leads for linking the sockets and connecting the box to the circuit.
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