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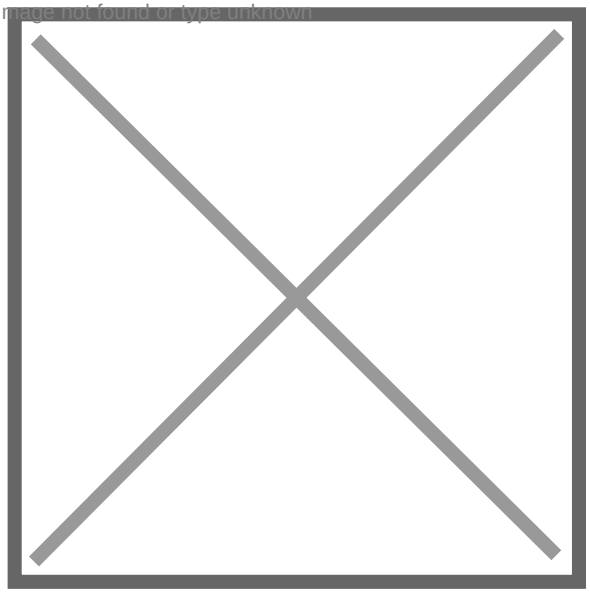
Product Name :

Meter Bridge

Product Code :

SCL-341/069

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Description :

Meter Bridge (Product Code: SCL-341/069) is a one-metre slide-wire bridge used to determine unknown resistance and the resistivity of a wire in school and college physics laboratories. A single 1 m length of 24 SWG bare constantan wire runs along a rule divided in centimetres and millimetres on a powder-coated aluminium extrusion, and a jockey is supplied. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of physics lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Wire	Single bare constantan wire, 24 SWG, 1 m long
Scale	Metre rule sub-divided in centimetres and millimetres
Mounting	Powder-coated aluminium extrusion
End clamps	Brass plates; the clamping makes contact at the exact ends of the scale, leaving virtually no margin for end errors
Terminals	Heavy-duty 4 mm socket terminals on the terminating strips
Supplied with	Jockey
Product code	SCL-341/069
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Meter Bridge Used For?

The meter bridge works on the Wheatstone bridge principle: with a known resistance on one side and the unknown on the other, the jockey is tapped along the wire until a galvanometer reads zero, and the balancing length gives the unknown value. Classes use it to find the resistance and specific resistance of a wire, to verify series and parallel combinations, and to compare two resistances.

Measuring the wire's diameter with a screw gauge alongside the balancing lengths lets students calculate resistivity, a standard physics practical at senior secondary level and a routine item in any meter bridge lab. Tap the jockey rather than sliding it, interchange the known and unknown resistances and average the results, and keep the constantan wire free of kinks.

What to Specify When Ordering

- Number of meter bridges needed, usually one per student group.
- Whether a galvanometer, resistance box, plug key and cell should be quoted with it.
- Spare jockeys or replacement constantan wire, if your laboratory keeps them in stock.

OEM Manufacturer

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