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Product Name :

Wheatstone Bridge Four Gap

Product Code :

SLE/PHY/75



Description :

Wheatstone Bridge Four Gap (Product Code: SLE/PHY/75) is a metre-scale slide-wire bridge used to measure unknown resistances and compare resistors in school and college physics practicals. Broad, heavily plated brass strips with four gaps sit on a polished hardwood base, and 24 SWG constantan wire is stretched along the top of a metre scale marked in mm and cm. It is made 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
Bridge strips	Broad, heavily plated brass strips with four gaps
Resistance wire	24 SWG constantan, stretched along the top of the scale
Scale	Metre scale marked in mm and cm
Terminals	Terminals with 4 mm sockets
Base	Polished hardwood
Included	Jockey
Dimensions	1130 × 80 × 50 mm
Product code	SLE/PHY/75
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Four-Gap Wheatstone Bridge Used For?

With a known resistance in one gap and the unknown in another, a galvanometer connected between the bridge and the jockey shows zero deflection at the balance point, and the two lengths of wire on either side give the ratio of the resistances. The extra gaps allow more elaborate set-ups, such as the Carey Foster arrangement for comparing two nearly equal resistances, in which the resistors are interchanged to cancel end errors.

Typical practicals include finding the resistance and specific resistance of a wire and checking the laws of resistors in series and parallel, which makes this a practical Wheatstone bridge experiment kit once a cell, key, galvanometer and resistance box are added. Tighten the terminals firmly, tap the jockey rather than sliding it along the wire, and repeat each balance with the resistors swapped for a more reliable mean.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the OEM of this four-gap bridge and produces it at its own licensed factory at Saha, Ambala, Haryana, India. ScienceLab is the trading name of Jain Scientific Equipments Private Limited (CIN U293 under manu pany