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Product Name :

Pencil Jockey (Knife Edge Jockey)

Product Code :

SLE/EM/24



Description :

Pencil Jockey (Knife Edge Jockey) (Product Code: SLE/EM/24) is the sliding contact used to locate balance points on Wheatstone bridges and potentiometers: a brass knife edge at one end of an insulated, pencil-style handle, with a 4mm socket binding post terminal at the other. At 100mm overall it sits comfortably in one hand during senior-secondary and undergraduate practicals, and it is a standard companion to meter bridge and potentiometer lab work across India. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

Specifications

Parameter	Detail
For use with	Wheatstone bridges and potentiometers
Overall length	100mm
Contact	Brass metal knife edge
Handle	Insulated, with the knife edge mounted at one end
Terminal	4mm socket binding post terminal at the other end

Typical Use

In a meter bridge or slide-wire Wheatstone bridge experiment, the jockey is connected through a galvanometer and touched at points along the bridge wire until the galvanometer shows no deflection; the balancing length then gives the unknown resistance. In a potentiometer experiment the same null method is used to compare the emfs of two cells or to find a cell's internal resistance. Because the knife edge meets the wire along a narrow line, the balance point can be read closely against the scale — the reason a knife-edge jockey is preferred over a blunt contact in these experiments.

Press the jockey gently and lift it before moving to a new point. Dragging the edge along the wire scrapes it and changes its resistance per unit length, which spoils later readings. Run the lead from the 4mm socket to the galvanometer, keep the brass edge clean and straight, and store the jockey where the edge will not be knocked.

Manufacturer

The Pencil Jockey is made by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana. The company is a registered MSME enterprise (Udyam UDYAM-HR-01-0003714), and its export orders are shipped under Importer-Exporter Code AAECJ8618A issued by the DGFT. Read more on our company profile.

Related Laboratory Equipment

Apparatus the jockey is used with in null-method experiments: