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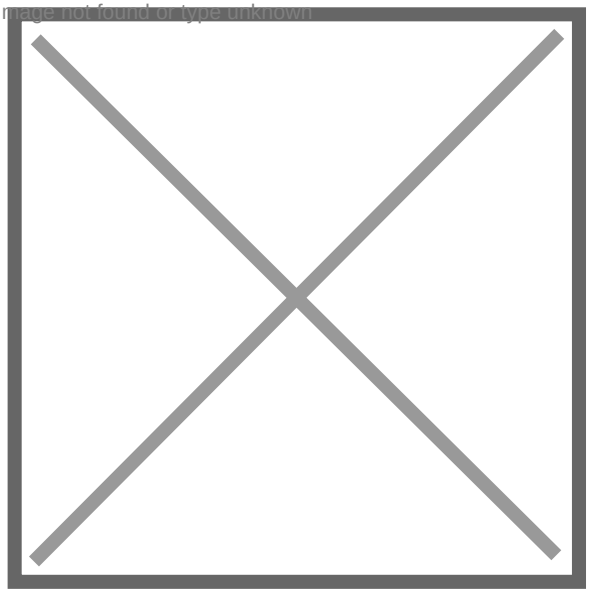
Product Name :

Potentiometer, 10 wire

Product Code :

SCL-343/070

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Description :

Potentiometer, 10 wire (Product Code: SCL-343/070) is a ten-metre slide-wire potentiometer used to compare the emf of cells and measure internal resistance in college and senior school physics laboratories. Ten 1 m lengths of 24 SWG bare constantan wire run over a centimetre-and millimetre-divided scale on a powder-coated aluminium extrusion, giving a long wire for fine balance readings. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Number of wires	10 wires, 1 m each (10 m in total)
Wire type	24 SWG bare constantan
Scale	Metre rule sub-divided in centimetres and millimetres
Mounting	Powder-coated aluminium extrusion
End clamping	Brass plates making contact at the exact ends of the scale, leaving virtually no margin for end errors
Terminals	Heavy-duty 4 mm socket terminals
Supplied with	Jockey
Product code	SCL-343/070
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the 10-Wire Potentiometer Used For?

A steady driver cell sends current through the full length of wire, so the potential falls uniformly along it; a test cell connected through a galvanometer and the jockey is then balanced at the point where no current flows. Because the test cell supplies no current at balance, the potentiometer measures its true emf, which an ordinary voltmeter cannot do.

Standard experiments include comparing the emfs of two primary cells with a two-way key, finding the internal resistance of a cell using a resistance box, and calibrating an ammeter or voltmeter. A rheostat in the driver circuit sets the potential gradient; keep it unchanged through a set of readings and tap the jockey only lightly. These tasks make it a core item for potentiometer lab practicals.

What to Specify When Ordering

- Number of potentiometers needed per laboratory.
- Whether a driver supply, rheostat, two-way key and galvanometer should be quoted with it.
- Any spare jockeys for student batches.

OEM

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