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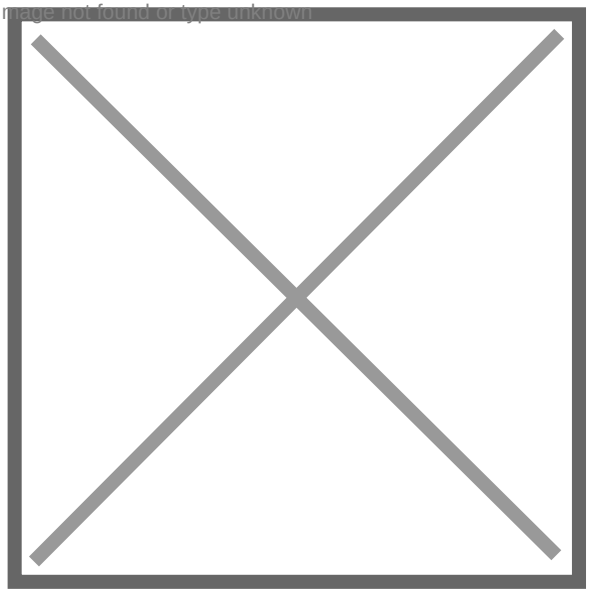
Product Name :

Potentiometer Kit

Product Code :

SCL-255/023

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Description :

Potentiometer Kit (Product Code: SCL-255/023) is an electrical measurement kit used for potentiometer experiments such as comparing cell emfs and finding internal resistance in senior school and college physics laboratories. It groups a 30-0-30 galvanometer (20 µA/div), decade resistance boxes from 10 x 0.1 ? to 10 x 1000 ?, a 0–10 A ammeter, a 0–5 V digital voltmeter, a 1.5–12 V / 3 A power source and colour-coded leads. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Galvanometer	DC, 30-0-30, 20 µA/div
Resistance boxes	10 x 0.1 ?; 10 x 1 ?; 10 x 10 ?; 10 x 100 ?; 10 x 1000 ?
Ammeter	Scale 0–10 A
Digital voltmeter	0–5 V
Power source	1.5–12 V / 3 A
Flexible cables, 50 cm	5 black and 5 red
Flexible cables, 100 cm	5 black and 5 red
Clamps	4 U-shaped clamps with wire and banana-type socket
Also included	Two-way socket wrenches
Product code	SCL-255/023
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Potentiometer Kit Used For?

A potentiometer measures an emf by balancing it against a known potential drop, so no current flows at the balance point and the cell's own internal resistance does not distort the reading. In this kit the centre-zero galvanometer acts as the null detector, the 1.5–12 V power source drives the circuit, and the resistance boxes set the current and the ranges being compared.

Typical potentiometer lab experiments include comparing the emfs of two cells, finding the internal resistance of a cell, and checking a voltmeter or ammeter against the potentiometer; the digital voltmeter and 0–10 A ammeter let students cross-check their results. Use the red leads for positive and black for negative connections, start with high resistance in series with the galvanometer, and only tap the circuit briefly near the balance point.

What to Specify When Ordering

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