Email : sales@scilabexport.com
Phone: +91-7082934803

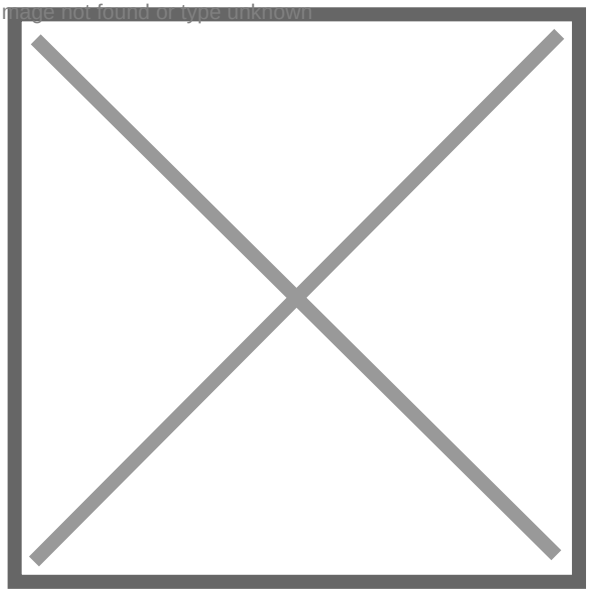
Product Name :

Winston Bridge Kit

Product Code :

SCL-253/024

Image not found or type unknown



Science Lab
Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Winston Bridge Kit (Product Code: SCL-253/024) is a Wheatstone bridge experiment kit used to measure unknown resistances and study bridge balance in school and college physics laboratories. Its bridge device measures 1000 x 100 x 50 mm with Ni-Cr resistance wire, and the kit adds a 0–20 V digital voltmeter, a 0–10 A digital ammeter, a 10 ? / 5 A rheostat, batteries, switches and 4 mm leads. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Bridge device dimensions	1000 x 100 x 50 mm
Wire material	Ni-Cr
Digital voltmeter	DC, 0–20 V
Digital ammeter	DC, 0–10 A
Rheostat	5 A, 10 ?
Batteries	Three, 3–4.5 V, with battery holder
Switches	5, for circuits with current 0–3 A and voltage 36 V
Flexible cables, 4 mm, 50 cm	4 red and 4 black
Flexible cables, 4 mm, 25 cm	4 red and 4 black
Product code	SCL-253/024
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Winston Bridge Kit Used For?

A Wheatstone bridge compares an unknown resistance with known ones: when the bridge is balanced, no current flows through the detector and the ratio of the resistances can be read from the balance position. On this kit’s 1000 mm bridge device, students slide the contact along the Ni-Cr wire to find that point, then calculate the unknown resistance, or the specific resistance of a wire sample.

The digital voltmeter and ammeter allow a second route to the same answer through the voltmeter–ammeter method, so students can compare two ways of measuring resistance. The rheostat limits the current, which keeps the wire from heating and drifting. For reliable readings, clean the contact points, close the switches only while taking a reading, and repeat the balance with the connections swapped.

What to Specify When Ordering

- the