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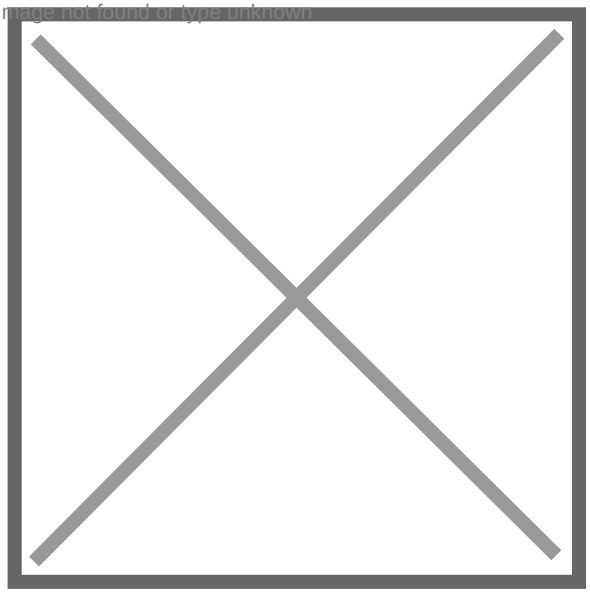
Product Name :

Ampere's Rule Apparatus

Product Code :

SLE/EM/08

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Description :

Ampere's Rule Apparatus (Product Code: SLE/EM/08) is a physics apparatus used to observe the magnetic field around a current-carrying wire in Grades 9–12 classrooms. Supplied with a manual, one 45-mm compass and six 16-mm compasses, it lets students apply the right-handrule and see how the field varies with distance and with the plane studied. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Demonstrates	Magnetic field around a current-carrying wire; right-hand rule; variation of the field with distance
Field planes studied	Perpendicular and parallel to the wire
Compasses included	One 45-mm compass and six 16-mm compasses
Documentation	Manual included
Size	17.5 x 7.5 x 10 cm
Level	Grades 9–12
Required, not included	Regulated DC power supply; banana/alligator cords
Product code	SLE/EM/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Ampere's Rule Apparatus Used For?

Start with the 45-mm compass beside the wire and the current off, so the needle settles on north. Switch the supply on and the needle turns; reverse the leads and the swing reverses, so the class can predict each direction with the right-hand rule before switching. The six 16-mm compasses are then arranged around the wire in the perpendicular plane to trace the circular field, and moved outwards step by step to show the deflection falling off with distance.

Repeating the layout in the plane parallel to the wire shows how field direction relates to the current along its length. Switch the current on only while readings are being taken, keep magnets and steel items away from the bench, and line the wire up north–south for the clearest deflections. The apparatus works as a front-of-class demonstration and as a magnetism experiment kit for pairs of students at their own benches.

What to Specify When Ordering

- The number of Ampere's Rule Apparatus sets: one for teacher demonstration, or one per student pair for practical work.
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