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Product Name :

Trans-Ratio

Product Code :

SLE/EAM/30



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Description :

Trans-Ratio (Product Code: SLE/EAM/30) is a fully self-contained transformer system that lets students investigate turns ratios and efficiency with the minimum of complication. The primary coil is tapped at 200, 400 and 600 turns and the secondary at every hundred turns from 100 to 600, with all tappings brought out to 4mm sockets, so dozens of ratios can be set up simply by moving leads. Manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is aready-to-use transformer experiment kit for school and college laboratories, supplied with fullinstructions and experiment details.

Specifications

Parameter	Detail
Type	Fully self-contained transformer system
Primary tappings	200, 400 and 600 turns
Secondary tappings	100, 200, 300, 400, 500 and 600 turns
Connections	All tappings brought out to 4mm sockets
Supply required	AC supply of up to 6V
Monitoring	AC voltmeters (not part of the unit)
Documentation	Full instructions supplied with experiment details
Size	180 x 100 x 75mm

Typical Use

Connect an AC supply of up to 6V across a chosen primary tapping and an AC voltmeter across a secondary tapping, then compare the voltage ratio with the turns ratio. Using the 200-turn primary with the 400-turn secondary gives a step-up of two; swapping to the 600-turn primary with the 100-turn secondary shows a strong step-down. Working through several combinations, students tabulate Vs/Vp against Ns/Np and see the transformer equation emerge from their own data, while differences from the ideal ratio open a discussion of flux leakage and losses.

With AC ammeters added in both circuits, the same unit supports efficiency measurements by comparing input and output power. Teachers also use it to show electromagnetic induction in its simplest form: no connection between the coils except the changing magnetic field. As a transformer experiment kit for school use it avoids the loose cores and clamps of demountable sets, which keeps practical time focused on the physics. Always use AC, never DC, and keep the input within the stated limit.

Manufacturer

Trans-Ratio is produced by **Jain Scientific Equipments Private Limited**, the Ambala, Haryana company behind the ScienceLab brand of teaching apparatus for physics, electricity and magnetism. Learn more on our company profile.

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