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Product Name :

RF Telemetry

Product Code :

SLE/EAM/32



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Description :

RF Telemetry (Product Code: SLE/EAM/32) is a complete teaching system for exploring how radio communication behaves. It consists of a 433MHz low power transmitter that sends out a variable audio tone and a matching receiver with a built-in loudspeaker, so students can literally hear when the link is working, weakening or blocked. Built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, an electronics lab equipment manufacturer for schools and colleges, it supports lessons on directionality, shielding and range.

Specifications

Parameter	Detail
System	Low power transmitter and matching receiver
Frequency	433MHz
Transmitter signal	Variable audio tone
Receiver output	Built-in loudspeaker
Unit size	90 x 60 x 20mm each, excluding aerials
Power	9V PP3 battery required for each unit
Investigations	Directionality, shielding, range and comparison with other communication systems

Typical Use

With a battery fitted in each unit, the transmitter is switched on and its tone set, and the receiver is carried away from it while students listen. Rotating either aerial shows how orientation affects reception; stepping further away shows how the signal fades with range; and wrapping the transmitter in metal foil, or placing it inside a metal box, shows the effect of shielding, which can then be compared with plastic, wood or a human body in the path. These simple tests make abstract ideas about electromagnetic waves tangible.

The system is particularly effective as a comparison with other communication methods covered in the syllabus, such as infrared remote controllers, visible light links and microwaves, because students can ask the same questions of each and contrast the answers. It fits both physics communication topics and introductory electronics courses. Remove the batteries when the units are stored for long periods.

Manufacturer

RF Telemetry is a ScienceLab product from **Jain Scientific Equipments Private Limited**, an Ambala, Haryana maker of electronics, physics and electricity apparatus for education. The company profile has more background on the firm.

Related Laboratory Equipment

Appa

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