ELECTRICITY LAB TRAINER

MODEL- ELELAB100

This trainer has been designed with a view to provide practical and experimental knowledge of Electricity technique as practically implemented on a SINGLE P.C.B.

SPECIFICATIONS

Features Required:

Stand alone operation
Durable, Easy to use kit
Include all the Basic Electrical Fundamentals
Solder-less connections
Complete set of coils and cores to understand the basics of Electro magnetic induction arid Transformers
Provided with a component box to perform all the experiments
CBT covering all the experiments

Technical Specifications:

DC Power Supply	:	5V, 200mA
AC Power Supply	:	6V, 1A
Relay	:	5V
Galvanometer	:	30 -0 -30
Galvanometer Resistance	:	80 ohms

Coils

No. of Turns	Wire Dimension (mm)	Maximum Current (Amp.)	Inductance (approx)
200 Turn	0.818	1.46	590uH
400 Turn	0.573	0.728	2.3mH
800 Turn	0.404	0.363	9.2mH
1600 Turn	0.251	0.144	34.2mH
3200 Turn	0.170	0.072	134mH

fuse	:	1 Amp.
Mains Voltage	:	220 V AC, ± 10%, 50Hz

Software Features:

Computer based tutorial covering all experiments like:
Laws like Ohm's, Kirchoffs Current and Voltage, Faraday's, Lenz's.
Circuit study like Voltage and current in circuit, R-C circuit, L-C circuit.
Characteristics study for transistor, diode.
Many more study and experiments on' Electricity, Electronics and Magnetisms.

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Dealer:-

Training System should include:

Component box with resistors, capacitors, transistors, diode, potentiometer.
E, I, U cores, set of coils, magnetic compass, bar magnets
Screw driver, multi-meter, connection patch cords

Training System is able to perform following experiments:

Resistnace individual, series and parallel connections.
Ohms law
Kirchoff's law
RC circuits
LC circuits
Characteristics of semiconductor diode, transistor
Faradays law
Lenz's law and effect of eddy current.
Relay and switching circuit
Oersted experiment
Step up/down transformer.
Effect of moving core on step up transformer.