



OMEGA ET-1039 "Electricity Lab" is a versatile training kit for a laboratory. ET-1039 is designed such that all the basic electrical circuits can be tested with the help of this trainer kit. The experiments given with training system develop mental starting from an introduction to the circuit, basic fundamentals and experiments on Ohm's Law, Magnetism, Relay, Power, Lenz's Law, Motors, Diode, Kirchoff's Law, R, L, C and many more. This simple training lab provides a strong foundation for future studies in electrical or electronics. This takes students from the basic of ohm's law, through simple series and parallel circuit analysis and into same elementary aspects of electronics where they will build circuits using capacitors and diodes.

With this system a set of coils and cores are provided. These high quality coils (Labeled with number of turns) and laminated iron cores provides an effective introduction to electromagnetic theory.

SPECIFICATIONS:

On Board:

- 01 Meters: 5 Nos.
 - 1.1 AC Voltmeter : 15V
 - 1.2 DC Voltmeter : 15V
 - 1.3 Galvanometer : ± 250 uA
 - 1.4 DC Ampere Meter : 0.6Amp
 - 1.5 DC Ampere Meter : 5A
- 02 Power Supply:
 - 2.1 Power Supplies AC/DC : 3, 6, 12V at 3.5A
 - 2.2 Power Supply AC : 30V at 1A
 - 2.3 Power Supply DC : 5V at 100mA

- 03 Switch SPDT
- 04 Switch DPDT
- 05 Push switch
- 06 Logic Switches Two No. Push type
- 07 Relay 12V DC One change over
- 08 Buzzer/Electric Bell
- 09 Transformer Input 6-0-6V and Output 6-0-6V
- 10 Bulb 6V Three Nos.
- 11 Resistance 1E2/1W, 5E/5W, 50E/5W, 100E/5W, 220E/2W, 470E/2W, 1K/1W, 100K/1W
- 12 Capacitance 1000 MFD/ 25V Two Nos.
- 13 Diode IN4007 Two Nos.
- 14 LED 5mm
- 15 Thermocouple
- 16 Potentiometer 10K
- 17 Breadboard 840 Tie Points
- 18 Fuse Holder open type
- 19 Electromagnetic Induction & Transformer
- 20 Main Supply 230V AC, 50 Hz

OBJECTS:

- To Study/ Experiment the following:
- 01 Electricity by Chemical Action
 - 02 Electricity by Heat
 - 03 Electricity by Magnets
 - 04 Conductors and Insulators
 - 05 Resistor Colour Code
 - 06 Resistors in series combination
 - 07 Resistors in Parallel combination
 - 08 Resistors in series and Parallel combination
 - 09 Ohm's Law
 - 10 Applying Ohm's Law

Continue Page02

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS