



**36200** Experimental Training Board has been designed specifically for a detailed practical study of conversion of a Galvanometer into a Volt / Amp meter and study of the laws of Resistances. The unit has an added feature that you can also learn to use a Multimeter.

Practical experience on this board carries great educative value for Science and Engineering Students particularly for Students of B.Sc and 10+2 classes.

#### OBJECT

1. To determine the resistance of a Galvanometer by half deflection method.
2. To determine the figure-of-merit of a Galvanometer.
3. To convert a Galvanometer into an Ammeter of a given range and to calibrate it.
4. To convert a Galvanometer into a Voltmeter of a given range and to calibrate it.
5. To study the laws of Resistances using an Ammeter.
6. To study the laws of Resistances using a Voltmeter.
7. To study the laws of Resistances using a Wheatstone Bridge.
8. To study the laws of Resistances using a Post Office Box.
9. To use a Multimeter for measuring :
  - 9.1 Resistances.
  - 9.2 Resistances in series.
  - 9.3 Resistances in parallel.
  - 9.4 DC Voltage.
  - 9.5 DC Current.

#### FEATURES

The board consists of the following built-in parts:

1. Galvanometer, 65mm rectangular dial to read 30-0-30.
2. 0 -30V D.C at 50 mA, continuously variable IC regulated Power Supply.
3. Five Potentiometers and adequate no. of other electronic components.
4. Mains ON/OFF switch, Fuse and Jewel light.
5. The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
6. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections.
7. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
8. Weight : 2.400 Kg. (Approx.)
9. Dimension : W 340 x H 125 x D 210

#### LIST OF ACCESSORIES:

1. Patch cords 4mm length 50cm RED.....06.
2. Patch cords 4mm length 50cm BLACK.....05.

#### OTHER APPARATUS REQUIRED:

1. Digital Multimeter 3¾ digit - Tesca Order Code - 17701C
2. Post Office Box

Note: Specifications are subject to change.