



**OMEGA TYPE ETB-162** Experimental Training Board has been designed specifically for determination of electronic charge (e) by using rectifier equation in case of a point contact germanium rectifier. The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

#### OBJECT

To determine the electronic charge (e) by using rectifier equation in case of a point contact germanium rectifier.

- 01 To note, change of current I with change of low voltage V in forward bias case and to plot the variation in  $\log I$  & V and investigate linear region of the graph.
- 02 To determine the electronic charge (e) by using rectifier equation.

#### FEATURES

The board consists of the following built-in parts:

- 01 500mV D.C. at 0.5mA, continuously variable Power Supply.
- 02 Digital Voltmeter DC 3½ Digit range 200mV.

- 03 Digital Current meter DC 3½ Digit Dual range 20mA/200mA.
- 04 Two Germanium diodes.
- 05 Mains ON/OFF switch, Fuse and Jewel light.
- 06 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 07 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 08 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 10 Weight : 2.300 Kg. (Approx.)
- 11 Dimension : W 340 x H 125 x D 210

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

**OMEGA ELECTRONICS**