



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. F.E.T. Millivoltmeter, 65mm rectangular dial with switch selectable ranges of 100mV & 200mV.
 03. D.C. Microammeter, 65mm rectangular dial with switch selectable ranges of 25mA and 250mA.
 04. Two Germanium diodes.
 05. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on 230V \pm 10% at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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