



Experimental Training Board has been designed specifically to study the characteristics and applications of a DIAC. DIAC is extensively used now a days in power control circuits.

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

**Object:**

01. To plot V-I Characteristics of a DIAC and study the following :
  - 1.1 Breakover voltage,  $V_{BO}$
  - 1.2 Negative resistance region.
  - 1.3  $V_{BO}$  symmetry and delta V
02. To study the applications of a DIAC as :
  - 2.1 Saw tooth waveform generator.
  - 2.2 Pulse train generator.

**Features:**

The board consists of following built-in parts:

01. 0-50V D.C. at 50mA, regulated Power Supply.
  02. 45V A.C. at 50mA, unregulated Power Supply.
  03. D.C. Voltmeter, 65mm rectangular dial to read 0-50V D.C.
  04. D.C. Ammeter, 65mm rectangular dial with switch selectable ranges of 200mA and 50mA.
  05. DIAC.
  06. Potentiometer and adequate no. of other electronic components.
  07. 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.

**Other Apparatus Required:**

- \* Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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