



Experimental Training Board has been designed specifically for the study of Schmitt's transistor binary circuit. Study of this circuit is useful for digital electronics.

Practical experience on these boards carries great educative value for Science and Engineering Students.

**Object:**

Study of schmitt's transistor Binary circuit :

01. To find loop gain of the binary circuit and to see the parameters responsible for making the loop gain to 1.
02. To adjust the loop gain to be less than 1 and to see linear amplification.
03. To adjust the loop gain to be slightly greater than 1 and to observe the switching action.

**Features:**

The board consists of the following built-in parts :

01. 0-12V DC at 50mA, continuously variable regulated Power Supply internally connected.
  02. Two PNP transistors.
  03. Adequate no. of other electronic components.
  04. 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 ½ 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:**

- \* Decade Audio Frequency Generator
- \* Decade Resistance Box
- \* Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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