



Experimental Training Board has been designed specifically to study the principle of Temperature Control with the use of a Thermistor. This is one of the important industrial applications of the thermistor. 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.

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#### Object

01. To turn ON or OFF an external load at a particular temperature.
02. To control and maintain the temperature of the internal oven.

#### Features:

The board consists of the following built-in parts :

01.  $\pm 12V$  DC at 100 mA, IC Regulated Power Supply Internally connected.
  02. 20V AC at 1 A for the internal oven.
  03. 12V D.C. relay having contact rating of 2A.
  04. Electrically heated Oven.
  05. Op-Amp IC741.
  06. NPN transistor.
  07. Mercury thermometer.
  08. NTC thermistor.
  09. Potentiometer.
  10. Rotary Switch and adequate no. of other electronic components.
  11. 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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