

**36309** Experimental Training Board has been designed specifically to study application of Thermistors Type PTC & NTC).

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

**Object :**

1. To perform practical Temperature / Fire alarm (as bulb indicator) with NTC Thermistor.
2. To perform practical over Temperature control alarm (as bulb indicator) with NTC Thermistor.
3. To perform practical Temperature / Fire alarm (as bulb indicator) with PTC Thermistor.
4. To perform practical under Temperature alarm (as bulb indicator) with PTC Thermistor.

**Features**

The board consists of the following built-in parts:

1.  $\pm 12$  V DC at 100 mA, IC Regulated Power Supply.
2. 0.8 V DC at 10 mA, Regulated Power Supply.
3. Five Op-Amp ICs.
4. Relay of 12 V DC having 2 Change - over
5. 6 V bulb for indication of relay energise / Alarm indication.
6. NTC Thermistors with 5 pins male connector.
7. PTC Thermistors with 3 pins female connector.
8. Two NPN transistors.
9. Two PNP Transistor.
10. 2 pin socket to connect load ( 100 W bulb ).
11. 100 watt bulb with holder and 2 pin plug top.
12. Adequate no. of other electronic components.
13. Mains ON/OFF switch, Fuse and Jewel light.
14. The unit is operative on 230V AC  $\pm 10\%$  at 50Hz.
15. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.
16. Weight : 4.600 Kg. (Approx.)
17. Dimension : W 340 x H 125 x D 210



**List of Accessories :**

1. One no. NTC Thermistor with 5 pin Male connector and lead length 50cm.
2. One no. PTC Thermistor with 3 pin female connector and lead length 50cm.
3. Patch cords 4mm length 50cmRed.....03.
4. Patch cords 4mm length 50cmBlack.....05

**Other Apparatus Required :**

1. Hot Plate

Note: Specifications are subject to change.

