Experimental Training Board has been designed specifically to study the Transistor Bias Stability.

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

Object:

01. To study the leakage current variation with temperature.
02. To see the shift in Q point at different operating temperatures.
03. To see the effect of temperature on stability of an amplifier.
04. To see the distortion in a single stage amplifier as a result of change in Q point.

Features:

The board consists of the following built-in parts :

01. -12V D.C. at 20mA, regulated Power Supply internally connected.
02. Oscillator, 1KHz fixed frequency with amplitude control.
03. D.C. Voltmeter, 65mm rectangular dial to read 0-15V.
04. D.C. Microammeter, 65mm rectangular dial to read with switch selectable ranges of 500mA and 10mA.
05. Oven, Electrically heated, to change temperature of the transistor.
06. PNP transistor.
07. Thermometer 0-110 °C.
08. Adequate no. of other electronic components.
09. Mains ON/OFF switch, Fuse and Jewel light.

* The unit is operative on 230V ±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

* Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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