



Experimental Training Board has been designed specifically on sinusoidal Oscillators. In this training board all the basic sinusoidal oscillator circuits can be quickly and easily assembled and studied.

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

Object:

01. To study R.C. Phase Shift Oscillator of phase advance type.
02. To study R.C. Phase Shift Oscillator of phase retard type.
03. To study Wien-Bridge Oscillator.
04. To study Hartely's Oscillator.
05. To study Colpitt's Oscillator.
06. To study Pierce (X-Tal) Oscillator.
07. To study method of frequency measurement using a CRO.

Features:

The board consists of the following built-in parts:

01. +9V D.C at 100mA, IC Regulated Power Supply.
02. Two stage buffer/amplifier using PNP transistors and controllable A.C. gain.
03. NPN Transistor biased in Class A common emitter configuration.
04. Wien-bridge network.
05. R.C. Phase Shift Net-work (advance type & retard type).
06. Tank circuits for Hartley's & Colpitt's Oscillators.
07. 3.579 MHz X-tal with series trimmer.
08. Adequate no. of other electronic components.
09. 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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