



Experimental Training board has been designed specifically to study of quadrature oscillator. It produces sine wave and cosine wave that are in out of phase by 90°.

Practical experience on this board carries great educative value for science and engineering students.

**Object:**

01. To study constructional features of quadrature oscillator.
02. To verify the generation of two signal (sine & cosine) that are in quadrature i.e. out of phase by 90°.
03. To study the variation in frequency by varying the values of components.

**Features:**

The board consists of the following built in parts :

01.  $\pm 15V$  D.C. at 50mA. IC regulated power supply internally connected.
  02. OP-Amp IC.
  03. A selector switch provided to select three frequencies.
  04. Two potentiometers for feed back control (coarse & fine control)
  05. Adequate no. of other electronic components.
  06. Mains ON/OFF switch, fuse and jewel light.
- \* Unit is operative on  $230V \pm 10\%$  at 50 Hz A.C. mains
  - \* Good quality, reliable terminals/sockets are provided at appropriate places on panel for connections/observations 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.
- \* Digital Frequency counter

Note: Specifications are subject to change.

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