



Experimental Training Board has been designed specifically for the study of Amplitude Modulation and demodulation with basic Diode detector. The Training Board is helpful for the study of improved Diode Detector and detection of efficiency of a diode in Amplitude Modulation and Demodulation.

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

Object:

To study the Diode Detector.

01. To modulate the carrier with audio signal and measure modulation index.
02. To demodulate the amplitude modulated waveform by the basic diode detector.
03. To demodulate the amplitude modulated waveform by the improved diode detector.
04. To study the detection efficiency of a Diode by direct method.

Features:

The board consists of the following built-in parts:

01. +9V DC at 100mA, regulated Power Supply internally connected.
 02. D.C. Milliammeter, 65mm rectangular dial to read 0-1mA.
 03. Carrier signal generator.
 04. Modulating circuit based on two transistors.
 05. Two Demodulating circuits, one for basic diode detector and other for improved diode detector.
 06. Output transformer for modulated output.
 07. Adequate no. of other electronic components.
 08. 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:

- * Audio Frequency Generator
- * A.C. Millivoltmeter
- * Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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