



OMEGA TYPE ETB-156 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 the 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 Digital DC Ammeter Range 0-2mA.
- 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.
- 09 The unit is operative on 230VAC $\pm 10\%$ at 50Hz.
- 10 Adequate no. of patch cords stackable 4mm spring loaded plug length 50cm.
- 11 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 12 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 13 Weight : 2.100 Kg. (Approx.)
- 14 Dimension : W 340 x H 125 x D 210

OTHER APPARATUS REQUIRED:

- 01 Audio Frequency Generator
OMEGATYPEAO-300
- 02 A.C. Millivoltmeter OMEGATYPEACV-25
- 03 Cathode Ray Oscilloscope 20MHZ
OMEGATYPECRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS