

Experimental Training Board has been designed to study on the modern techniques of Pulse Width Modulation / Demodulation. Using this training board one can know the specialized techniques of Pulse Width Modulation and Demodulation.

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

**Object:**

01. To modulate a pulse carrier with sinusoidal signal to obtain a Pulse Width Modulated signal
02. To demodulate the Pulse Width Modulated signal to obtain the modulating signal

Features:

The board consists of the following built-in parts:

01. $\pm 6V$ D.C. at 100mA, IC regulated Power Supply internally connected
 02. Pulse Train (Carrier) Generator based on timer IC
 03. 50 Hz A.C. sinusoidal modulating signal obtained from stepped down transformer
 04. Pulse Width Modulator based on timer
 05. Pulse Width Demodulator based on operational amplifier
 06. Adequate no. of other electronic components
 07. 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 2mm 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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