



Experimental Training Board has been designed specifically for the study of Synchronized Pulse Generator. This Training Board gives a better understanding on the generation of Sync. pulses to trigger SCR in synchronism with the supply voltage using phase control principle.

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

**Object:**

To Study generation of synchronized pulses for triggering of Thyristor at the desired position.

**Features:**

The board consists of the following built-in parts:

01.  $\pm 15V$  D.C. at 100mA, IC regulated power supply internally connected.
  02.  $\pm 10V$  D.C. at 100mA, IC regulated power supply internally connected.
  03.  $+5V$  D.C. at 100mA, IC regulated power supply internally connected.
  04. 8V p-p fixed A.C. at 50 Hz.
  05. Six OP-AMPICs 741.
  06. Two Monostable Multivibrator ICs 4047.
  07. Timer IC 555.
  08. AND Gate IC 4081.
  09. Two JFETs.
  10. Pulse Transformer.
  11. Silicon Controlled Rectifier.
  12. Adequate no. of Electronic Components.
  13. 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:**

- \* Dual Trace Cathode Ray Oscilloscope 20MHz
- \* Frequency Counter 6 digit

Note: Specifications are subject to change.

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