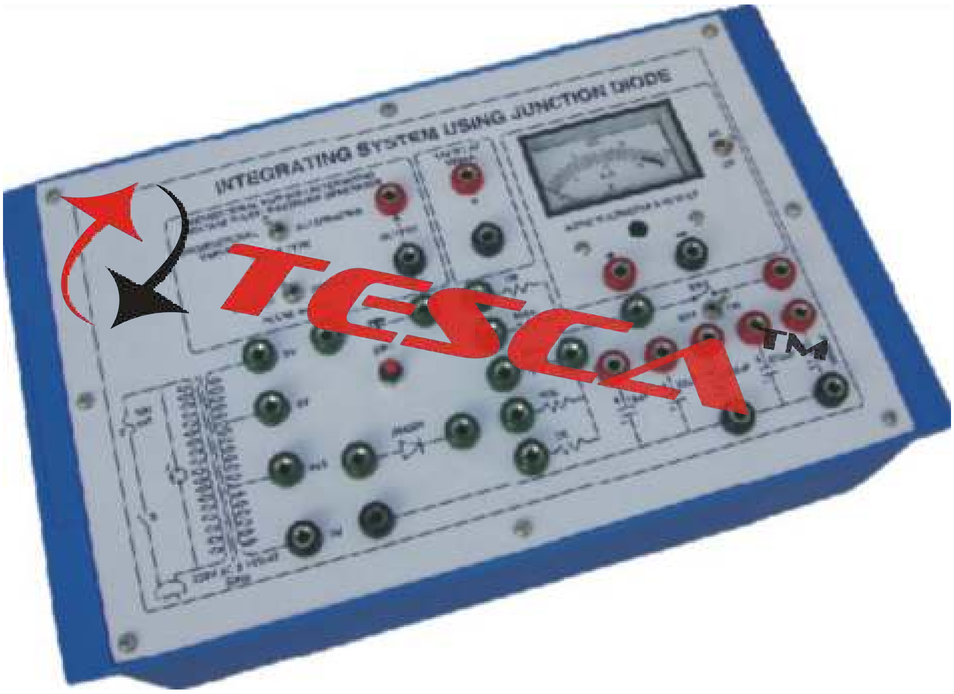

Experimental Training Board has been designed specifically to study an integrating system using a junction diode, with unidirectional varying alternating and sinusoidal voltages. The special feature of this unit is a built-in unidirectional varying alternating (voltage pulse) waveform generator. The performance of experiments using the output of this generator becomes easy although if desired an external rheostat may be used for generating unidirectional varying / alternating voltages.

Practical experience on this board carries great educative value for Science and Engineering Students particularly for Students of B.Sc and 10+2 Classes.

Object:

01. Charging of a condenser by unidirectional varying voltage pulses and then integrate them.
02. Charging of a condenser by alternating voltage pulses and then to integrate them.
03. Charging of a condenser by sinusoidal voltage pulses and then to integrate them.

Features:

The board consists of the following built-in parts:

01. Unidirectional varying alternating (voltage pulse) waveform generator, with switch selectable type and shape of output pulses.
02. Mains transformer with tappings of 0V, 4V5, 5V, 6V and 9V A.C. at 100mA.
03. +12V D.C. at 100mA, IC regulated Power Supply (for use with rheostat).
04. A.C. / D.C. Voltmeter, 65mm rectangular dial, with A.C. and D.C. switch selectable range of 0-15V.
05. Silicon Junction Diode, Push to ON Switch and Toggle Switch.
06. Adequate no. of other Electronic Components.
07. Mains ON/OFF switch, Fuse and Jewel light.

* The unit is operative on 230V ±10% at 50Hz A.C. Mains.
* Adequate no. of patch cords stackable from rear both ends 4 mm spring loaded plug length ½ metre.
* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections.
* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

* Metronome
* Rheostat (OPTIONAL)

Note: Specifications are subject to change.

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