



Experimental Training Board has been designed specifically for the study of Voltage to Frequency Converter using OP-AMP ICs 741. This Training Board gives a better understanding of the conversion of Input D.C. voltage into proportional output frequency.

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

Object:

To Study the conversion of Analogue D.C. voltage into proportional frequency with 50% duty cycle having linear relationship using Integrator, Schmitt Trigger and Master Slave J.K. flip flop in toggle mode.

Features:

The Board consists of the following built-in parts:

01. $\pm 15V$ D.C. at 50 mA, IC regulated power supply internally connected.
 02. $+ 5V$ D.C. at 50mA, IC regulated power supply internally connected.
 03. D.C. Voltmeter, 65mm rectangular dial to read 0-15V.
 04. Two OP-AMP ICs 741.
 05. J.K. Flip Flop IC 4027.
 06. Adequate no. of 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 4 mm 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
- * Frequency counter 6 digit

Note: Specifications are subject to change.

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