



Experimental Training Board has been designed specifically for the study of OP-AMP and to carry out its Mathematical Operations. This Training Board has been an ideal teaching aid for different types of Electronic Circuits by using OP-AMP. Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

01. Study of Operational Amplifier in the following modes:
 - (a) Inverting Amplifier.
 - (b) Non-inverting Amplifier.
 - (c) Frequency Response of Inverting A.C. Amplifier.
 - (d) Frequency Response of Non-inverting A.C. Amplifier.
 - (e) High Input Impedance Inverting Amplifier.
 - (f) High Input Impedance Non-inverting Amplifier.
02. To study the following Mathematical Operations :
 - (a) Inverting Summing Amplifier.
 - (b) Non-inverting Summing Amplifier.
 - (c) Subtractor & Differential Amplifier.
 - (d) A.C. Differential Amplifier.
 - (e) Adder Subtractor.
 - (f) Multiplication by a Constant.
 - (g) Division by a Constant.
 - (h) Integrating Amplifier for D.C. Input Signals.
 - (i) Integrating Amplifier for A.C. Input Signals.
 - (j) Differentiator Amplifier.
 - (k) Non-Inverting Differentiator.

Features:

The board consists of the following built-in parts :

01. $\pm 15V$ D.C. at 50mA, IC Regulated Power Supply.
 02. Three 0-2V D.C at 100mA, continuously variable regulated Power Supplies.
 03. OP-AMP IC741.
 04. Two SPST switches and adequate no. of other electronic components.
 05. 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:

- * Sine-Square Wave Generator
- * Digital Multimeter $3\frac{3}{4}$ digit
- * A.C. Millivoltmeter
- * Function Generator
- * Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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