



**OMEGA TYPE ETB-142** Experimental Training Board has been designed specifically for the study of Null Balancing Techniques of OP-AMPS.

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

**OBJECT**

- 01 Study of Null Balancing Techniques of Operational Amplifiers.

**EXPERIMENTS**

- 01 INTERNAL OFF SET NULLING.
  - 1.1 For Inverting OP-AMP Circuit.
  - 1.2 For Non-Inverting OP-AMP Circuit.
  - 1.3 For Voltage follower Circuit.
- 02 UNIVERSAL EXTERNAL OFF SET NULLING.
  - 2.1 Inverting Amplifier, offset voltage applied to the Inverting input.
  - 2.2 Inverting Amplifier, offset voltage applied to the Non-Inverting input.
  - 2.3 Off setting circuit for low gain non-inverting OP-AMP.
  - 2.4 Off setting circuit for high gain non-inverting OP-AMP.
  - 2.5 Off setting circuit for voltage follower.
- 03 OTHER TYPES OF OFF SET ARRANGEMENTS
  - 3.1 Zero off setting.
  - 3.2 Zero off setting buffer.

**FEATURES**

The board consists of the following built-in parts :

- 01  $\pm 15V$  D.C at 100mA IC Regulated Power Supply internally connected.
- 02 Two OP-AMPS.
- 03 Linear potentiometer for the construction of offset nulling circuits.
- 04 Adequate no. of other electronic components.
- 05 Mains ON/OFF switch, Fuse and Jewel light.
- 06 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz
- 07 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 08 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 10 Weight : 2.500 Kg (Approx.)
- 11 Dimension : W 340 x H 125 x D 210mm

**OTHER APPARATUS REQUIRED :**

- 01 Digital Multimeter 3½ Digit OMEGA TYPE DMM-101
- 02 Dual trace CRO 20MHz OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**