



**OMEGA TYPE ETB-92** Experimental Training Board has been designed specifically for the study of electrical parameters of OP-AMP IC 741. Circuit designers and R & D labs will also benefit from this educative training board.

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

#### OBJECT

To measure the following parameters on OP-AMP IC 741

- 01 Measurement of quiescent supply current of OP-AMP.
- 02 To null the offset voltage of an OP-AMP.
- 03 To measure open loop voltage gain under closed loop condition.
- 04 To measure output resistance.
- 05 To measure differential input resistance.
- 06 To measure unity gain bandwidth.
- 07 To measure the rated output.
- 08 To measure the slewing rate.
- 09 To measure the full power response.
- 10 To measure the input offset voltage.
- 11 To measure the input bias currents and offset current.
- 12 To measure the common mode rejection ratio (CMRR).
- 13 To measure the common mode input resistance.

#### FEATURES

The board consists of the following built-in parts:

- 01  $\pm 12V$  D.C. at 100mA, IC regulated Power Supply.
- 02 OP-AMP IC-741.
- 03 Digital DC Voltmeter  $3\frac{1}{2}$  Digit Range 0-20 V.
- 04 Digital DC Ammeter  $3\frac{1}{2}$  Digit Range 0-20 mA.
- 05 Adequate no. of other electronic components.
- 06 Mains ON/OFF switch and Fuse.
- 07 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 08 Adequate no. of patch cords stackable from rear both ends 2mm spring loaded plug length 50cm.
- 09 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 10 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 11 Weight : 2.800 Kg. (Approx.)
- 12 Dimension : W 340 x H 125 x D 210

#### OTHER APPARATUS REQUIRED:

- 01 AF Generator OMEGA TYPE AO-300
- 02 A.C. Millivoltmeter OMEGA TYPE ACV-25
- 03 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**