



**OMEGA TYPE ETB-172** Experimental Training Board has been designed specifically for the study on Under Voltage Monitoring using OP-AMP IC 741. This Training Board gives a better understanding of the detection of input voltage when going below the specified range. Practical experience on this board carries great educative value for Science and Engineering Students.

#### OBJECT

01 To Study the under voltage state of AC mains with LED indication using OP-AMP as a closed loop Comparator in hysteresis operation.

#### FEATURES

The board consists of the following built in parts:

- 01  $\pm 15V$  D.C. at 50mA, IC regulated power supply internally connected.
- 02 + 10V D.C. at 50mA, IC regulated power supply internally connected.
- 03 OP-AMP. IC 741.
- 04 LEDs for visual indication of status.

- 05 Relay.
- 06 Adequate no. of Electronic Components.
- 07 Mains ON/OFF switch, Fuse and Jewel light.
- 08 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 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 : 4.200 Kg. (Approx.)
- 12 Dimension : W 340 x H 125 x D 21

#### LIST OF ACCESSORIES:

- 01 Patch cords 4 mm length 50cm RED.....02
- 02 Patch cords 4 mm length 50cm BLACK.....02

#### OTHER APPARATUS REQUIRED:

- 01 Variac I/P 0-230V O/P 0-270V Current 1Amp or above.

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

## OMEGA ELECTRONICS

**Works:**  
28E & F, Malviya Industrial Area,  
Jaipur-302 017 (INDIA)  
Phone: 0141-2751559

E-mail : info@omegaelectronics.net  
omegajipur62@gmail.com

**Marketing Division:**  
B-28, Fateh Singh Scheme, Opp. Rajputana  
Palace Sheraton, Jaipur-302006 (INDIA)  
Phone : 091-141-2375647, 2379223

[www.omegaelectronics.net](http://www.omegaelectronics.net)