



OMEGA TYPE ETB-117 Experimental Training Board has been designed specifically to study the characteristics of Opto Electronic Devices. Different experiments have been included in this Opto Electronic Devices characteristics board in order that a wide range of topics on Opto Electronics Devices Characteristics be covered in a short span of time. All the circuits for obtaining the characteristics of various devices can be easily assembled on this versatile training board itself.

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

OBJECT

To study the characteristics of the following opto electronic devices :

- 01 To study the characteristics of a Light Emitting Diode (LED).
- 02 To study the characteristics of a Photo Diode.
- 03 To study the characteristics of a Photo Transistor.
- 04 To study the characteristics of a Light Dependent Resistor (L.D.R.).
- 05 To study the operation of Photo Voltaic Cell.
- 06 To study the operation of an Opto coupler.

FEATURES

The board consists of the following built-in parts:

- 01 Two 0-10V D.C. at 100mA, continuously variable regulated Power Supplies.
- 02 Digital D.C. Ammeter 3½ Digit 0-2mA/20mA.
- 03 Digital D.C. Ammeter 3½ Digit 0-200uA/20mA.

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

- 04 Digital DC Voltmeter, 3½ ranges Digit of 2V and 20V.
- 05 Opto Electronic Devices:
 - 5.1 Light Emitting Diode (LED)
 - 5.2 Photo Diode
 - 5.3 Photo Transistor
 - 5.4 Light Dependent Resistance (LDR)
 - 5.5 Photo Voltaic Cell
 - 5.6 Opto Coupler
- 06 Adequate no. of other electronic components.
- 07 The unit is operative on 230VAC ±10% at 50Hz.
- 08 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 09 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections.

- 10 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 11 Weight : 2.700 Kg. (Approx.)
- 12 Dimension : W 340 x H 125 x D 210

OTHER APPARATUS REQUIRED:

- 01 Single Phase Variac Input 0-230V
Output 0-270V at 2Amp
- 02 40 Watts, table lamp

OMEGA ELECTRONICS