



OMEGA TYPE DB-9 Dynamic Demonstration Board has been designed specifically for the study of the concept of Photo Electric Control. This demonstration board is based on a simple but reliable circuit, thus enabling the student to fully understand its working. The circuit diagram is neatly drawn on the panel itself and controls and indicators are placed at appropriate places.

The board is absolutely self contained and requires no other apparatus. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

- 01 To Demonstrate the operation of photo electric relay.
- 02 To control an external electrical circuit with the board.

FEATURES

The Board consists of the following built-in parts:

- 01 +12V D.C. at 200 mA, I.C. Regulated and short circuit protected Power Supply.
- 02 6VAC at 50mA, Power Supply for the lamp.
- 03 Two NPN transistors.
- 04 LDR (Light Dependent Resistor).

- 05 Lamp with Holder.
- 06 Potentiometer for sensitivity control.
- 07 Two LED's, to see the change-over indication.
- 08 ON/OFF change over contacts of the in-built relay are brought out on three sockets on the panel. These contacts are rated at 6 Amp, for resistive load and 3 AMP for inductive load at 230V.
- 09 Adequate no. of other Electronic Components.
- 10 Mains ON/OFF switch, Fuse and neon indicator.
- 11 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- 12 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
- 13 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 14 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 15 Weight : 3 Kg. (Approx.)
- 16 Dimension : W340 x H125 x D210

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

OMEGA ELECTRONICS