

BCD to Segment Display Seven Segment Display (using Light Emitting Diodes). The decoder driver circuit is used to drive its binary coded decimal output from switches. The BCD to seven segment decoder driver IC 7446/47A which consists of 45 diodes, 16 resistors and 7 transistors. There are 4 switches corresponding to 4 variables A,B,C and D. The switches are so connected that the two terminals of the switch corresponds to a logic '1' and logic '0' respectively in one position of the switch. When the switch position is changed, the two terminals just inter-change their A,B,C and D both in the true form, as well as in the false form. Thus depending upon the state of the switches and their relative position a particular digit is displayed on the display panel.

**Object:**

To demonstrate the working of BCD to seven segment display.

**Features:**

The board consists of the following built-in parts :

01. + 5V at 100mA, IC regulated Power Supply.
  02. Seven segment display of Common Anode, LED type.
  03. Decoder Driver IC.
  04. Four SPDT switches corresponding to four variables A, B, C and D for giving logic '1' and logic '0' inputs.
  05. Adequate no. of other Electronic Components.
  06. The unit is operative on 230V  $\pm$ 10% at 50Hz A.C. Mains.
  07. Mains ON/OFF switch and Neon indicator are provided.
- \* The unit is operative on 230V  $\pm$ 10% at 50Hz AC Mains.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
  - \* Strongly supported by detailed Operating Instructions, giving details of Object Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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