OMEGA®

A SIGN OF QUALITY PRODUCT

LOGIC LABORATORY

OMEGA TYPE LTB-810

OMEGA TYPE LTB-810 Computer Logic Laboratory is a combined board for all the experiments covered under OMEGA TYPE LTB-806, LTB-807, LTB-808 and LTB-809 Logicoms. This laboratory has been designed specifically for the use of students in digital electronic lab. The students can build-up various logic functions and understand their working of different types logic circuits. 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

To study and verify the following:

01	AND/NAND function.	02	OR function.
03	Function F=A. (B + C)	04	Exclusive OR function.
05	Coincidence circuit.	06	Full Adder.
07	Half Adder.	08	Majority logic.
09	Minority logic.	10	Even parity check.
11	Odd parity check.	12	Binary storage elements.
13	Set-Reset Flip-Flop.	14	Type D Flip-Flop.
15	J-K Flip-Flop	16	Master Slave J-K Flip-Flop.
17	Type T Flip-Flop.	18	OR/NOR function.
19	UP-Counter.	20	DOWN Counter.
21	Decimal Counter.		
22	Error detecting codes and Parity Check.		

FEATURES

The logic laboratory consists of the following :

01 Logicom-I OMEGA TYPE LTB-806 consists of:
- 1.1 + 5V D.C. at 200mA, IC Regulated Power Supply internally connected.
- 1.2 Nine, 3-input AND gates each followed by an inverter to give 3-input NAND gates.
- 1.3 A clock generator with a repetition frequency of 500 Hz.
- 1.4 Two LED driver circuits each of which individually drives a LED.

02 Logicom-II OMEGA TYPE LTB-807 consists of:
- 2.1 + 5V D.C. at 500mA, IC Regulated Power Supply internally connected.
- 2.2 Twelve, 2-input OR gates each followed by an inverter to give 2-input NOR gates.
- 2.3 A clock generator with a repetition frequency of 500 Hz.
- 2.4 Two LED driver circuits each of which individually drives a LED.

03 Logicom-III OMEGA TYPE LTB-808 consists of:
- 3.1 +5V D.C. at 500mA, IC Regulated Power Supply internally connected.
- 3.2 Six Inverters.
- 3.3 Four, 2-input AND gates.
- 3.4 Four, 2-input OR gates.
- 3.5 A clock generator with a repetition frequency of 500 Hz.
- 3.6 Two LED driver circuits each of which individually drives a LED.

04 Logicom-IV OMEGA TYPE LTB-809 consists of:
- 4.1 + 5V D.C. at 1Amp, IC Regulated Power Supply internally connected.
- 4.2 Nine J-K Flip-Flop.
- 4.3 A clock generator with a repetition frequency of 500 Hz.
- 4.4 Two LED driver circuits each of which individually drives a LED and is connected to the binary output of the Filp-Flop.
- 4.5 Two pulser switches.

05 Switches for logic selection.

06 LEDs for visual indication of status.

07 Adequate no. of other Electronic Components.

08 Mains ON/OFF switch, Fuse and Jewel light.

09 The unit is operative on 230V ±10% at 50Hz A.C. Mains.

10 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.

11 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.

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

13 Weight : 15 Kg. (Approx.)

14 Dimension : W 610 x H 660 x D 203

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

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