

Computer Logic Training Board has been designed specifically to study Various Modulo Counters. This Training Board gives a better understanding of the design, working & practical aspects of counters. Gates and flip-flops can be used to construct any type of counter. Output of each counter circuit can also be observed in decimal code with the help of the seven segment displays. 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 construct & study the following Modulo Counters :

01. Fixed Modulo 4 bit Binary Ripple Counter in :
 - 1.1 Count-Up mode.
 - 1.2 Count-Down mode.
 - 1.3 Count-Up/Down mode
02. Four stage Ring Counter.
03. Variable Modulo Counters.

Features:

The board consists of the following built-in parts :

01. +5V D.C. at 100mA, IC Regulated Power Supply.
 02. Four master slave J-K flip-flops with preset and clear terminals.
 03. Three, 2-input AND-OR gate combinations.
 04. One inverter (NOT gate).
 05. 4-input NAND gate.
 06. Completely programmable panel to make any type of counter.
 07. Switches for logic selection.
 08. LEDs for visual indication of output of each flip-flop.
 09. Seven segment display with decoder circuit to display the output in decimal code.
 10. One pulser switch for clock & one press switch for clear.
 11. Adequate no. of other Electronic Components.
 12. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on 230V \pm 10% at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * 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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