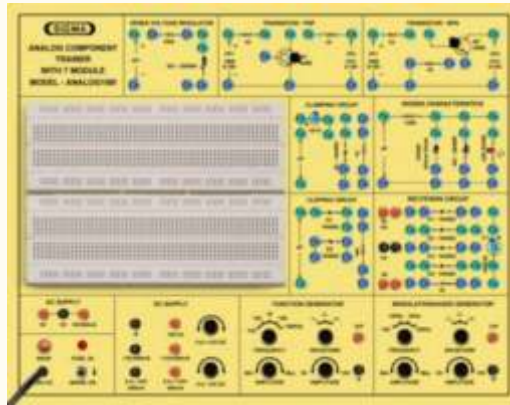




ANALOG COMPONENT TRAINER WITH SEVEN BASIC MODULES - ANALOG100I

This trainer has been designed with a view to provide practical and experimental knowledge of different Analog Circuit Design using Bread Boards and with Seven Basic modules used in IOT Electronics.



SPECIFICATIONS

(1) Hardware

Following Parts are assembled on Single PCB of size - 18 Inch x 15 Inch

1. Regulated DC power supplies : + 5V, 1A - Fixed
+12V, 500mA - Fixed
±12V, 500mA - Variable
2. AC supply : 9V-0V-9V/500mA
3. Function Generator : Sine, Square, Triangle (1Hz to 100KHz)
4. Modulating Signal Generator
5. Breadboard for Circuit design – 640 Points - 02 Nos

Basic Modules

1. Diode Characteristics (Si,Zener,LED)
2. Rectifier Circuits
3. Diode as Clipper Circuit
4. Diode as Clamping Circuit
5. Zener as voltage regulator.
6. Transistor Type NPN
7. Transistor Type PNP

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Dealer:-

(2) Accessories

1. Patch cords : 20 Nos
2. Practical Manual - Printed + Soft Copy : 1 No.
3. E-Books for Subject : 10 Nos. in PDF Format

(3) Cabinet and PCB

The complete circuit diagram is screen printed on component side of the PCB with circuit and Parts at the same place. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement. The acrylic cover is fitted on PCB to safeguard parts. It works on 230 V AC Supply.

EXPERIMENTS

1. To plot Silicon Diode Characteristics
2. To plot Zener Diode Characteristics
3. To plot LED Diode Characteristics
4. To experiment Half wave, Full wave and Bridge Rectifier Circuits
5. To study Diode as Clipper Circuit
6. To study Diode as Clamping Circuit
7. To study Zener as voltage regulator.
8. To plot NPN Transistor Characteristics
9. To plot PNP Transistor Characteristics
10. To Study CE, CB, CC Amplifier Circuits
11. To Study RC Coupled Amplifier Circuit
12. To Construct R-C Phase Shift oscillator Circuit
13. To construct Astable Multivibrator Circuit
14. To study Low pass and High Pass Filter circuit