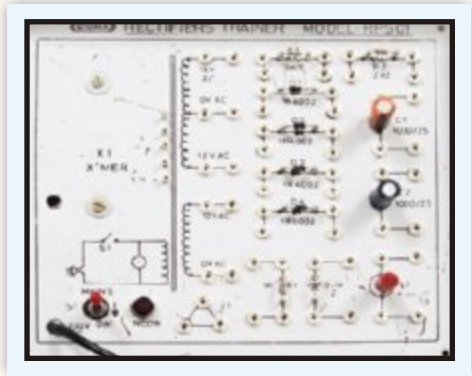




# HALF AND FULL WAVE RECTIFIER TRAINER

## MODEL RPS01B-C

This trainer has been designed with a view to provide practical and experimental knowledge of different types of rectifiers.



### FEATURES

- ❖ The schematic circuit diagram printed on P.C.B. for all terminals, switches, components and power supplies.
- ❖ All parts are visible from top and the pin extensions are available around parts with diagrams.
- ❖ All parts are soldered on tags to replace without opening the trainer board.
- ❖ All terminals (2 mm sockets) soldered properly to avoid loose connections.

### SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Following parts provided on Single PCB with connecting terminals.
  - a. Mains transformer primary 230V A.C.,  
Secondary centre tap 18-0-18V AC at 500 mA.  
Secondary centre tap 0-10V AC at 500 mA.
  - b. Silicon Junction Diodes - 1N4002 - 4 Nos.
  - c. Filter Choke coil
  - d. Filter Capacitors - 1000u/25V - 2 Nos.
  - e. Zener Diode - 9.1 V - 1 No.
  - f. Load Resistors - 2 No. (1K and 2K2)
3. The complete circuit is printed on a single P.C.B. Covered with acrylic sheet, housed in wooden cabinet.
4. Built in IC based regulated Power Supply.
3. Standard Accessories :
  1. User Manual with practical and circuit diagrams.
  2. Connecting patch cords - 10 nos.

### EXPERIMENTS

1. To study Junction Diode Rectifier output and ripples content for different resistive loads for:
  - (a) Half Wave
  - (b) Full Wave (Centre Tap)
  - (c) Full Wave (Bridge)
  - (d) Voltage Doublers Circuit
2. To study filter and load regulation characteristics for half wave, full wave and Bridge rectifier having Different resistive loads and filters of the types:
  - (a) Capacitor filter
  - (b) Capacitor Filter with capacitor value doubled
  - (c) Inductor filter.
  - (d) Capacitor input L Section filter.
  - (e) Capacitor Input ã section filter.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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