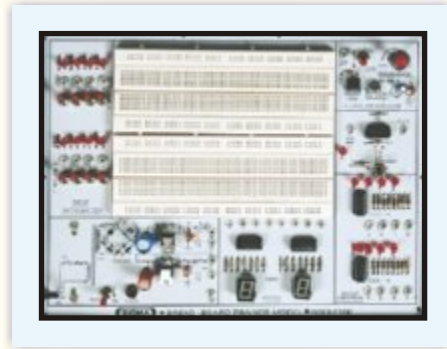




# ANALOG LAB TRAINER

## MODEL- ANALOG100S

This trainer has been designed with a view to perform various Diode application circuits, Transistor circuits, Voltage regulation circuits, amplifier and oscillator circuits etc and large number of other experimental circuits on breadboard.



### SPECIFICATIONS

1. Regulated DC power supplies : +5V-1A (Fixed),  $\pm 12V$ -500mA (Fixed),  $\pm 12V$ -500mA (Variable)
2. AC supply : 9V-0V-9V/500mA
3. Breadboard : Breadboard for making various circuits and testing Them. External components/ICs can be fitted conveniently.
4. Function Generator
5. Operating modes : Sine, Square, Triangular
6. Frequency range : 1 Hz to 10 KHz
7. Continuity Tester : For testing the continuity. Provided with Beeper Sound.
8. Interconnection for Modules : 2mm patch cords.
9. Power : 220V  $\pm$  10%, 50/60Hz
10. Power consumption : 3VA (approx.)
11. Accessories included : Mains cord, Operating and experimental Manual (with more than 20 designed experiments), patch cords.

#### Features :

1. Self contained and easy to use.
2. On board DC and AC power supply
3. On board function & Modulation Generator
4. On board Continuity Tester
5. On board Toggle switches and potentiometers.
6. High Quality Breadboard.
7. More than 20 designed experiments for breadboard.
8. Ready to use circuit boards (optional)

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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**Dealer:-**

## Ready to use experimental Board

- a) Diode Characteristics (Si, Zener, LED)
- b) Transistor characteristics (CB NPN)
- c) Transistor characteristics (CB PNP)
- d) Transistor characteristics (CE NPN)
- e) Transistor characteristics (CE PNP)
- f) Transistor characteristics (CC NPN)
- g) Transistor characteristics (CC PNP)
- h) FET characteristics
- i) Common Emitter Amplifier
- j) Common Collector Amplifier
- k) Common Base Amplifier
- l) RC coupled Amplifier
- m) Class A Amplifier
- n) Class B Amplifier
- o) Class C RF tuned Amplifier
- p) Phase Locked Loop
- q) Multi vibrators (Astable/Monostable)
- r) Zener Voltage Regulator
- s) Transistor series Voltage Regulator
- t) Transistor Shunt Voltage Regulator
- u) Differential Amplifier (Transistorized)
- v) Op-Amp (inverting/Non inverting/Differentiator)
- w) Operational Amplifier (Adder/Scalar)
- x) Operational Amplifier (Integrator /Differentiator)
- y) Schmitt Trigger and Comparator
- z) Active filters (Low Pass and High Pass)
- aa) Active Band Pass Filter
- ab) Notch Filter (active + passive)
- ac) Phase Shift Oscillator
- ad) Wein Bridge Oscillator
- ae) Colpitt Oscillator
- af) Two port network parameter
- ag) UJT Characteristics
- ah) MOSFET Characteristics
- ai) SCR Characteristics
- aj) TRIAC Characteristics
- ak) DIAC Characteristics