Analog and Digital Circuit Lab Trainer

Model : SD-903

SINCOM SD-903 Analog and Digital Circuit Lab Trainer is an exceptional and all-encompassing trainer that is well-suited for the assembly and testing of Analog and Digital Electronics circuits on a Bread Board platform. This trainer offers the capability to apply fixed or variable DC/AC voltages, generate Sine and Square wave test signals, as well as includes features such as a TTL/CMOS Logic Inputs generator, TTL/CMOS Logic Output Indicators, a Mono clock Pulse generator, an electronics components bank, and a Digital DC Volt Indicator. This Trainer provides a formal and sophisticated solution for the construction and evaluation of a wide range of Analog and Digital Electronics circuits.

Features

- ❖ Appropriate for a diverse array of Analog and Digital Electronics Circuits.
- ❖ Two Bread Boards Platform with 1680 tie points
- ❖ Incorporates both Fixed and Variable DC and AC Power Pack
- ❖ Includes 12 TTL/CMOS Logic Inputs Generator switches
- ❖ Facility to select the TTL/CMOS Digital circuits
- ❖ Provides 09 Bicolor LEDs for TTL/CMOS logic Output Indicator
- ❖ Mono Clock Pulse Generator
- ❖ $3^{1/2}$ Digit Digital DC Volt Indicator
- ❖ Sine and Square wave Test Signal generator with variable Frequency and amplitude.
- ❖ Includes Basic Electronics component bank
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external Function Generator and Oscilloscope
- ❖ Interconnections by 2mm high quality banana sockets and pins.

Technical Specifications

- AC Mains Power Supply   : 230V ±10%, 50Hz
- Regulated Fixed DC Power Supply   : +5V,+12V,-12V, +15V,-15V /1A
- Variable DC Power Supply   : Variable 0 to +12V and 0 to -12V
- Variable AC Power Supply   : Variable 0 to 12V, 50Hz
- Test Signal Generator   : Sine & Square Wave, variable Frequency @100KHZ, variable amplitude @ 8Vpp.
- Digital Logic circuits   : TTL & CMOS
- Digital TTL/CMOS Logic Input Generator : 12 by SPDT switches
- Digital TTL/CMOS Logic Output Indicator : 09 Bi Color LEDs
- Mono Clock Pulse Generator   : 01 Manual
- Digital Voltmeter   : DC 0-20V, Red Color $3^{1/2}$ Digit LED Display
- No. of Bread Boards   : 02
- Bread Board Tie Points   : 1680
- Components Bank   : Resistors (6), Capacitors (4), Inductors (3), Potentiometer (3)
- Weight   : 4.0 kg (approx)
- Dimensions (mm)   : L 270 x W 390 x H 130
- Interconnections   : 2mm Banana sockets
- Operating Temperature   : 0-50^{0}C, 80% RH

Learning Scope

- To Study the Trainer for various inputs and outputs provided on the board.
- To analyze the Power supply section.
- To Study the Test signal generator section.
- To investigate the Logic Generator, Indicators and Mono clock pulse generator.
- To investigate the various components provided on the Board.
- To proficiently construct the desired Analog and Digital circuit on the bread board.
- To thoroughly test the assembled circuit.

Other Instruments Required : Digital Multimeter (DMM),CRO (Optional)

Accessories Included : Set of Patch Cord and Details Instruction Manual

Subject to Change