Digital IC Trainer (25 Experiments)

Model : SC-903

SINCOM SC-903 Digital IC Trainer is a versatile self contained trainer to understand various experiments using TTL Digital ICs. This trainer offers the capability to verify the operation & truth table of Logic gates AND,OR,NOT,NAND,NOR,EX-OR, JK Flip-Flops, Universal Shift Register, Decade Counter, 8:1 Multiplexer, 1:8 Demultiplexer, Seven Segment Decoder, Code converters, Adder-Subtractors and their combinational circuits.

Features

- 25 Experiments on a single Trainer
- 13 Digital ICs on board
- ZIP IC Socket for connecting additional ICs
- Includes 08 TTL Logic Inputs generator
- 08 LEDs for TTL logic Output Indicator
- Incorporate DC Power supply
- Mono Clock Pulse generator
- Seven Segment Display
- Four Common Strip for Interconnections
- 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
- Interconnections by 2mm high quality banana sockets and pins.
- User friendly Designed

Technical Specifications

- AC Mains Power Supply : 230V ±10%, 50Hz
- Regulated Fixed DC Power Supply : +5V /1A
- Digital TTL Logic Input Generator : 08 by Switches
- Digital TTL Logic Output Indicator : 08 LEDs

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- Mono Pulse Generator : 01
- ZIP IC Socket : One 20 Pin
- Common Connection Strips : 04
- Seven Segment Display : 01 CA type
- No. of Digital ICs used : 13
- Digital ICs used :IC7408,IC7432,IC7404,IC7400,IC7402,IC7486,IC7476, IC74194, IC7490, IC 74151,IC74138,IC7447
- Experiments Covered : 25 on logic gates, Flip-Flops, Decade Counter, Shift Register, MUX, DEMUX, 7 Segment Decoder, Code converters etc.
- Weight : 3.0 kg (approx)
- Dimensions (mm) : L 270 x W 390 x H 130
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-55^{0}C, 85% RH

Learning Scope

- To Study the operation of Digital IC trainer for various inputs and outputs.
- To Study Logic Gates AND,OR,NOT,NAND,NOR,XOR,XNOR and verify its truth table.
- To Study and verify truth table of Demorgan's Theorem.
- To Study Half-full adder and subtractor.
- To Study and verify the truth table of JK, D,T Flip-flops.
- To study and verify the truth table of Decade Counter.
- To study and verify the truth table of Universal Shift Register.
- To study and verify the truth table of BCD-Seven Segment Decoder
- To study and verify the truth table of Binary-Gray and Gray-Binary code converters
- To study 8:1 Multiplexers and 1:8 Demultiplexers.
- To study various circuits based on logic gates, Flip-flops and shift register.

Other Instruments Required : Digital Multimeter (Optional)

Accessories Included : Set of Patch Cord and Details Instruction Manual

Subject to Change