



An ISO 9001:2015 Co.

## Digital Counter and Shift Register Trainer

### Model : SC-908

**SINCOM SC-908 Digital Counter and Shift Register Trainer** is a self contained trainer to verify the operation & truth table of various counters and shift registers like UP Down Counter, Synchronous Counter, Four Bit Ripple Counter, MOD-N Counter, Twisted Ring Counter, Decade Counter and SISO, SIPO, PISO, PIPO, Left Right Shift Register, Universal shift register using Flip-Flops, logic gates and ICs.

### Features

- ❖ All counter and shift registers circuits on a single trainer
- ❖ Separate modules of all counter and shift registers
- ❖ 06 TTL Logic Inputs generator
- ❖ 04 LEDs for TTL logic Output Indicator
- ❖ Incorporate DC Power supply
- ❖ Mono Clock Pulse generator
- ❖ Set and Reset Switch
- ❖ 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 /500mA                          |
| ▪ Digital TTL Logic Input Generator  | : 06 by Switches                      |
| ▪ Digital TTL Logic Output Indicator | : 04 LEDs                             |
| ▪ Mono Pulse Generator               | : 01                                  |
| ▪ Set and Reset By                   | : Push-To-On switch                   |
| ▪ Counters Based on                  | : JK Flip-Flops, Logic Gates, IC 7490 |
| ▪ Shift Registers Based on           | : JK Flip-Flops, Logic Gates and ICs  |
| ▪ Weight                             | : 3.0 kg (approx)                     |
| ▪ Dimensions (mm)                    | : L 444 x W 127 x H 539               |
| ▪ Interconnections                   | : 2mm Banana sockets                  |
| ▪ Operating Temperature              | : 0-55°C, 85% RH                      |

### Learning Scope

- To Study Digital Counter trainer. To Study and verify the truth table of Up-down Counter, Synchronous counter, 4 Bit Binary Ripple counter, MOD-N Counter, Twisted Ring Counter, Decade Counter and various counter circuits based on logic gates and Flip-flops
- To Study Shift Register trainer. To Study and verify SISO and SIPO Shift Register, PISO and PIPO Shift Register, Left/ Right Shift Register, Universal Shift Register.

**Other Instruments Required** : Nil

**Accessories Included** : Set of Patch Cord and Details Instruction Manual.