



An ISO 9001:2015 Co.

## Digital Counter Trainer

### Model : SC-905

**SINCOM SC-905 Digital Counter Trainer** is a self contained trainer to verify the operation & truth table of UP Down Counter, Synchronous Counter, Four Bit Ripple Counter, MOD-N Counter, Twisted Ring Counter and Decade Counter using Flip-Flops, logic gates and ICs.

### Features

- ❖ All counter circuits on a single trainer
- ❖ Separate modules of all counters
- ❖ 05 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 $\pm$ 10%, 50Hz
▪ Regulated Fixed DC Power Supply	: +5V /500mA
▪ Digital TTL Logic Input Generator	: 05 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
▪ Weight	: 3.0 kg (approx)
▪ Dimensions (mm)	: L 444 x W 127 x H 539
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-55 <sup>0</sup> C, 85% RH

### Learning Scope

- To Study Digital Counter trainer.
- To Study and verify the truth table of Up-down Counter.
- To Study and verify the truth table of Synchronous counter.
- To Study and verify the truth table of 4 Bit Binary Ripple counter.
- To Study and verify the truth table of MOD-N Counter.
- To Study and verify the truth table of Twisted Ring Counter
- To study and verify the truth table of Decade Counter.
- To study various counter circuits based on logic gates and Flip-flops

**Other Instruments Required :** Nil

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