

The Electronic Sequencer is intended for elementary as well as advance training of digital electronics. The trainer cover regular digital circuits by solder less inter connections through use of 4 mm brass terminations and patch cords. Logic level input / output indicators and DC regulated power supply are in built. The unit housed in finished box .

**The Trainer Cover The Following Experiment :**

**Experiment 1 : Study Of Basic Gates And Verification Of Their Truth Tables.**

- 1.1 NOT
- 1.2 OR
- 1.3 AND

**Experiment 2 : Study And Verifications Of The Law Of Boolean Algebra And De-morgan's Theorems.**

- 2.1.1 AND
- 2.1.2 OR
- 2.1.3 COMPLEMENT OR NOT

**Theorems**

- 2.2.1  $(A = A + 0)$
- 2.2.2  $(1 = A + 1)$
- 2.2.3  $(A = A + A)$
- 2.2.4  $(1 = A + A')$
- 2.2.5  $(A.1 = A)$
- 2.2.6  $(A.0 = 0)$
- 2.2.7  $(A.A = A)$
- 2.2.8  $(A.A' = 0)$
- 2.2.9 (a & b) De Morgan's Theorem-I LHS & RHS  $(A + B)' = A' . B'$
- 2.2.10 (a & b) De Morgan's Theorem -II LHS & RHS  $(A . B)' = A' + B'$
- 2.2.11  $A + AB = A$
- 2.2.12  $A + A'B = A + B$
- 2.2.13  $(AB + AB') = A$
- 2.2.14 (a & b)  $(AB + A'C) = (A + C) (A' + B)$
- 2.2.15  $AB + A'C + BC = AB + A'C$
- 2.2.16  $A(A + B) = A$
- 2.2.17 (a & b)  $A(A' + B) = AB$
- 2.2.18  $(A + B) (A + B') = A$
- 2.2.19  $(A + B) (A' + C) = AC + A'B$
- 2.2.20 (a & b)  $(A + B) (A' + C) (B + C) = (A + B) (A' + C)$



**Experiment 3 : Study Of Shift Register (sipo)**

**Feature:**

- Two Input AND Gate : 4 Nos Using 7408
- Two Input OR Gate : 4 Nos Using 7432
- NOT Gate : 6 Nos Using 7404
- Memories Modules : 8 Nos Using 7474
- Relays : 8 Relays with one Input terminal and three output contact terminals
- Timers : 2 Timer section having variable potentiometer to cover 5 sec to 1 min range
- DC Power Supply : Internally Connected
- Debounce Logic Switch : 6 independent logic level inputs to select High / Low TTL levels
- Output LED Indicators : 8 independent logic level indicators for High / Low status indication of digital outputs
- Power ON : Power ON switch with indicator for mains on indication and fuse for protection.
- Patch Cords : 40 Safety Leads 4 mm (Different Colours & length)
- Power Requirement : 230V + 10% single phase AC.
- Instruction manual : One detailed instruction manual with well thought out experiments covering the above topics.

Note: Specifications are subject to change.

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