OMEGA®

A SIGN OF QUALITY PRODUCT

ELECTRONIC SEQUENCER

OMEGA TYPE LTB-891

OMEGA TYPE LTB – 891 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

01 Two Input AND Gate-Four Numbers Using 7408
02 Two Input OR Gate-Four Numbers Using 7432
03 NOT Gate-Six Numbers Using 7404
04 Memories Modules Eight Nos Using 7474
05 DC Power Supply : 5 V / 500 mA (Internally Connected)
06 Debounce Logic Switch : Six independent logic level inputs to select High / Low TTL levels,
07 Output LED Indicators : Eight independent logic level indicators for High / Low status indication of digital outputs.
08 Power ON : Power ON switch with indicator for mains on indication and fuse for protection.
09 Patch Cords : Set of 20 assorted coloured multi-stand wires with 4mm stackable plug termination at both ends. (Stackable)
10 Power Requirement : 230V ± 10% single phase AC.
11 Instruction manual: One detailed instruction manual with well thought out experiments covering the above topics.
12 Weight : 3 Kg. (Approx).

OMEGA ELECTRONICS

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