Product name:	Product code:
Digital Lab Station	EEN0045



Description

Digital Lab Station

Technical specification

- 6. Binary Adder and Subtractor
- 7. Binary Multiplier
- 8. EX-OR gate implementation
- 9. Application of EX-OR gate
- 10. Johnson Counter
- 11. To verify the dual nature of Logic Gates
- 12. Study of Flip-Flops RS, JK, D&T
- 13. Multiplexer and Demultiplexer
- 14. 4 Bit Binary up and down counter
- 15. Study of 8 to 3 Line Encoder
- 16. Study of 3 to 8 Line Decoder
- 17. Study of Shift Register (SIPO)
- 18. CMOS-TTL Interfacing
- 19. Study of Crystal oscillator
- 20. Study of pulse stretcher circuit
- 21. 4 Bit Ring Counter
- 22. Modulo 12 Counter By Direct Clearing
- 23. Decade counter
- 24. Shift Register SISO and PIPO

Digital Lab Station

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Digital Lab Station is designed for the logic beginners to enhance the comprehension of basic logical theory. The digital lab covers regular digital circuits by solder-less interconnections on breadboard and as well as compatible with all optional modules through use of 2mm patch terminals and patch cords. The design of the equipment is easy to operate and understand. It is equipped with various kinds of basic logic gates, debounced logical switches, LED indicators, DC power supply with short circuit protection, pulse generator and solderless breadboard. The unit housed in attractive enclosure is supplied with mains cord, patch cords, Instruction manual.

Learners in high schools, Polytechnic Colleges and Universities, can use the trainer as independent activity tool.

Experimental Coverage:

- 1. Logic gates operation
- 2. To prove De-Morgan theorem With Boolean logic equations
- 3. Binary to Gray code conversion
- 4. Gray code to Binary conversion
- 5. Binary to Excess-3 code conversion