

Logic Trainer 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 brass 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 bread board. 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:

01. Logic gates operation
02. To prove De-morgan's theorem with boolean logic equations
03. Binary to Gray code conversion
04. Gray code to Binary conversion
05. Binary to Excess-3 code conversion
06. Binary Adder and Subtractor
07. Binary Multiplier
08. EX-OR gate implementation
09. Application of EX-OR gate
10. To verify the dual nature of Logic Gates
11. Study of Flip-Flops RS, JK,

Specifications:

- Basic Logic Gate Units : It contains 6 kinds of logic gates, i.e. AND GATE X 6, OR GATE X 6, NAND GATE X 6, NOR GATE X 6, XOR GATE X 3, NOT GATE X 3.
 Input voltage of HI level > 2.25V
 Input voltage of LO level < 0.8V
 DC Power Supply : Equipped with short circuit protection and indicator.
- a. Output voltage +5V \pm 5%
 Max. output current 1 Amp.
 Line regulation < 50mV
 Load regulation < 100mV
 - b. Output voltage - 5V \pm 5%
 Max. output current 500 mA
 Line regulation < 25mV
 Load regulation < 30mV
 - c. Output voltage \pm 15V \pm 5%
 Max. output current 500 mA
 Line regulation < 150mV
 Load regulation < 150mV
- Pulse Generator : 3 kinds of time interval, 1 sec, 0.1 sec, 0.01 sec.
 Output voltage +5V
- Debounced Logic Switch : 4 No's HI / LO
- LED Indicator : 8 Bits LED Output Indicator, Max. Input Voltage \leq 15V DC
- Breadboard : Interconnected Solder less Breadboard having 2120 tie points, fitting all DIP sizes and all components with lead and solid wire AWG # 22-30 (0.3 – 0.8 mm)
- Accessories : Mains Cord, Instruction Manual, Red & Black patch cords (2mm with Pin) 10 each, Red & Black patch cord (Pin to Pin) 10 each. Wire 24/25 SWG. 1Meter each 5 Colour

Note: Specifications are subject to change.

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