



Description

The Digital Logic Trainer is a comprehensive laboratory training platform designed for hands-on learning of digital electronics and logic circuit design. The trainer integrates essential power supplies, clock generation, input/output interfaces, and standard logic ICs, enabling students to design, test, and analyze a wide range of digital logic experiments.

Key Features & Functional Capabilities

- **Built-in Solderless Breadboard** for rapid circuit prototyping and experimentation
- **On-board DC Power Supplies:**
 - +5 V, –5 V
 - +15 V, –15 V
- **Clock Pulse Generator** for continuous clock signals
- **Manual Clock Pulse Generator** using push-button switch for step-by-step logic operation analysis
- **8-bit Data Switch** for digital input selection and logic testing
- **Integrated 74-Series Logic ICs** for implementing standard combinational and sequential logic circuits
- **2-Digit 7-Segment Decoder/Driver** for numeric display applications
- **7-Segment Decoder for Data Input/Output** visualization
- Provision of **all other standard facilities** required for digital logic experiments

Educational Applications

- Verification of basic logic gates and Boolean functions
- Design and testing of combinational and sequential logic circuits
- Counters, registers, and timing circuits
- Clocked digital system analysis and troubleshooting

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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