Product Code . JL-BE-10488

Understanding Digital Logic Circuits

Description

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Students can explore a wide variety of electronic concepts simply by making connections to the on board logic circuits indicated with their schematic/logic symbols.

Understanding Digital Logic Circuits is designed to fulfill requirement of performing experiments to study and understand the working principle and functioning of basic logic gates, universal gates and various logic circuits.

It is also useful to build and test circuits as well as making projects related to digital electronics or when learning the subject.

It is very useful in digital electronics laboratories for performing digital experiments.

All connections and controls are clearly marked and conveniently located.

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Features:-

8 bit Data Switches (TTL)

8 bit bicolor LED display

Logic Probe

Self contained & easy to operate

On Board DC Power Supplies

Onboard Pulse Generator (TTL)

ZIF Sockets

Logic symbol/ Schematic Diagram indicated on board mimic

Pullup Resistors

Pulser Switches

BCD to seven segment display

Scope of Learning:-

Study the operation of Logic NAND gate and verify its Truth table

Study the operation of Logic NOR gate and verify its Truth table

Study the operation of RS Flip-flop and verify its Truth table

Study the operation of Logic AND gate and verify its Truth table

Study the operation of Logic OR gate and verify its Truth table

Study the operation of D Flip-flop and verify its Truth table

Study of Logic algebra

Study the application of logic gate circuit

Study the application of JK Flip-flops as Up-Down Counter

Study the implementation of simple logic design

Study of digital combinational logic circuits

Study the application of D Flip-flops as Shift Register

Study the operation of Logic NOT gate and verify its Truth table

Study the operation of JK Flip-flop and verify its Truth table

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