BASIC ELECTRICITY ELECTRONICS LABORATORY TRAINING SETS



Y-0020 - 01 BASIC LEVEL DIGITAL ELECTRONIC TRAINING SET



The Basic Level Digital Electronics Training Set is designed for basic digital electronics applications. The set consists of basic logic gates, power supply, oscillator and logic level indicators.

2 mm sockets and 2 mm connection leads in different colors are used in the set.

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The set is placed with cover in a shock proof separable case. It is designed for using horizontally and is suitable for storing vertically.

The theory, application areas, the definition of the components and their figures in practice are given detailed in introduction of every subject in the Experiment Book. The Book contains the chapters of "Preparation information" supported with circuit diagrams and graphics, "how to do the experiment" where the real pictures are used and "conclusion" where the results and the questions regarding the experiment are included.

TECHNICAL SPECIFICATIONS

Supply Voltage DC Fixed TTL Power Supply TTL Pulse Generator Pulse Switch 220V AC / 50Hz ±10% +5V DC / 1.2A / Electronics controlled 1Hz - 20KHz, variable Positive and Negative

APPLICATION COMPONENTS ON THE SET

Binary Switch (with LED Indicator, 12 Bit, TTL 1 Pcs 8 Bit Lojic indicator 1 Pcs



SYSTEM PRESENTATION

Main Unit : 2mm Connection Leads : Power Cable : Experiment Book : 1 Pcs, (Dimensions 400mm x 45 - 120mm x 420mm), Metal Case-24 Pcs, in 4 different colors 1 Pcs, IEC, 2m 1 Pcs

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PRACTICAL EXPERIMENTS ON BASIC LEVEL DIGITAL ELECTRONICS TRAINING SET

Obtaining the truth table of 3 - input AND Gate Obtaining the truth table of OR Gate Obtaining the truth table of 3 - input OR Gate Obtaining the truth table of INVERTER Gate Converting AND Gate to OR Gate by using INVERTER Converting OR Gate to AND Gate by using INVERTER Obtaining the truth table of NAND Gate Using NAND Gate as an INVERTER Obtaining the truth table of 3 - input NAND Gate Obtaining the truth table of NOR Gate Using NOR Gate as an INVERTER Obtaining 3- input NOR Gate using 2 - input NOR Gates Obtaining the truth table of EXCLUSIVE-OR Gate Generating EXCLUSIVE-OR Gate using NAND Gates Obtaining the truth table of EXCLUSIVE-NOR Gate Examination of THREE - STATE Buffer) Generating RS Flip-Flop using NOR Gates Generating RS Flip-Flop with NAND Gates Examination of R-S Flip Flop with timer Examination of J-K Flip-Flop Examination of D Flip-Flop Examination of RS Flip-Flop Examination of 4016 (4066) Analog switch integrated circuit Full adder design with KARNAUGH Maps Squaring design with KARNAUGH maps Circuit Design with KARNAUGH maps