

Digital Trainer Kit 12 Bit (MI-D01-2) is an advanced learning platform which comes with extremely useful components & resources to understand and grab the knowledge about basic, linear & digital electronics. This is a multi-purpose mini lab which is featured by built-in Fixed DC Power Supplies, BCD to seven segment, Pulse Generator Clock Generator, Logic Level Generator, Logic Level Indicator & etc.

Features

- On board power Supply
- On board Logic input/output Indicators
- On board Logic Probe available
- On board Pulse Generator
- On board ZIF Socket available to connect IC's
- On board Pulser Switch
- On board Fixed Crystal generated clock
- BCD to seven segment available on board.
- Basic Logic IC's with base available on board
- Symbols and Diagram are printed on glass epoxy PCB

Learning's

- To Study the working of logic OR gate.
- To Study the working of logic AND gate.
- To Study the working of logic NOT gate.
- To Study and verification of Demorgan's theorem
- To Study and verification of Boolean Algebra Laws



AND Gate



OR Gate



NOT Gate



NAND Gate



NOR Gate



XOR Gate

Technical Specifications

On board Fixed DC	
Power Supply Source	: + 5VDC/1A with overload trip
BCD Display	: Seven Segment BCD Display (2nos)
On Board Pulser Switches	: Push to ON (2nos)
Logic Data Input	: Toggle Switches provide for Logic Level Input with dual color indication LED. (16nos)
Logic Level Indicator	: Using Bi-color LED (16nos)
Crystal Generated Clock	: 1K, 2k & 4K with manual pulsing by push button switch
On board Logic Ic's	: 7404 (NOT gate) 7408 (AND gate) 7432 (OR gate)
On Board Logic Probe	: 1 no
Types of Connecting PCB	: Using Snap Fit Connectors : Bare board Tested Glass Epoxy SMOBC PCB
On Board Fixed Clock Generator	: 1Hz, to 1MHz, in Seven Steps (1no.)
ZIF Socket	: ICs up to 20pin can be placed Universal ZIF Socket (without soldering)
Breadboard (Tie points 840)	: 172.5mmX128.5mm (2nos)
Connectivity	: Snap fit (2mm banana socket)
Electrical/Mechanical Specifications	
Cabinet/Case	: Attractive ABS Plastic Cabinet
Power ON switch with indicator and fuse for protection.	
Input Line Voltage	: 230V AC \pm 10%, 50Hz
Dimensions (in mm)	: 340 (L) x 250 (W) x 62 (H) (Approx.)
Weight	: 3.Kg. (Approx.).
Warranty	: 2 yerars

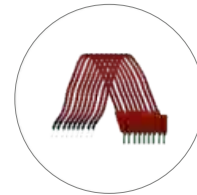
Package Contents



Power Cable (1no.)



Patch Cords (Banana to Banana)



Patch Cords (Banana to Fly Lead Male)



Fly Lead (Male to Male)



User Manual (1no.)

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