Kitek Technologies Pvt. Ltd.

.....a total solution for Educational Lab Trainers

KMS-01B
ANADIGI ELECTRONICS TRAINER KIT

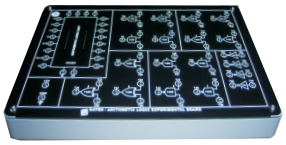
KMS-01B is Versatile trainer which is capable of performing the role of Linear/Digital IC Trainer, Gates, Flip flop, synchronous, ADC, DAC, Decoder, Multiplexer, Eprom, RAM, FPGA, CPLD, Basic Electronics Trainer, network circuit & theorms trainer, rectifier, filter & regulator trainer, Transistor amplifier circuits trainer, oscillator & waveshaping circuits trainer, linear circuits trainer, electrical bridges trainer, power electronics trainer and digital electronics trainer.

Specifications

- 12 TTL/CMOS Logic Level Inputs with Dual Color LED for Logic Low & Logic High.
- 10 output LED's for Logic level Indicators.
- Fixed (TTL) Clock generator of 1Hz, 100Hz, 10KHz, 100KHz.
- Single Pulser Generator with two debounced Output.
- Two digit BCD to 7 segment decoder.
- On-board 10K Variable Potentiometer.
- On-board +12V SPDT Relay for Control application.
- Signal Generator Five step 200 Khz SINE, SQUARE(TTL), TRAINGLE output, Sine/Traingle Output Voltage - 20V p-p max.
- Logic Probe to detect High/Low level pulses, with bi-colour LEDs to indicate Facility.
- On-board Buzzer for alarm application.
- On-board 1280 TIE points Bread Board.
- Fixed DC Power Supply: +5V/1A, ±12V/250mA.
- Variable DC Power supply of 0 to +15V/250mA, 0 to +30V/250mA output.
- AC Power Supply of 9V-0-9V.
- All Inputs/Outputs are brought on 2mm Sockets.
- Set of 2mm Banana Patch Cords.
- Should support DN & AN series ready to use Electronics board.
- Bare board Tested Glass Epoxy SMOBC PCB is used
- User's Manual.

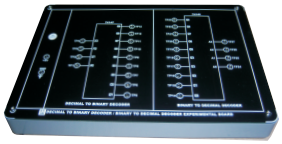
Digital experimental boards:

1. DN-01 GATES/ARITHMATIC LOGIC BOARD



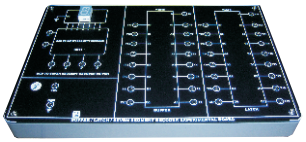
- Experiments on AND,OR,NOR,NAND gats.
- Experiments on NOT,Ex-OR, EX-NOR.
- Experiments on ALU

2. DN-02 DEICIMAL TO BINARY & BINARY TO DECIMAL BOARD.



- Experiments on Binary to Decimal convertor.
- Experiments on Decimal to Binary convertor.

3. DN-03 BUFFER/LATCH/ SEVEN SEGMENT DECODER BOARD

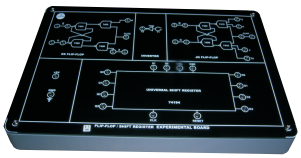


- Experiments on Buffer output.
- Experiments on Latch output.
- Experiments on Seven Segment Decoder.

Note : Specifications can be altered without notice in our constant efforts for improvement.

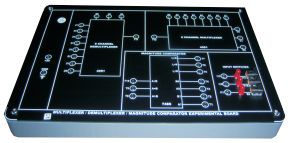
Kitek Technologies Pvt. Ltd., B-4, Lotus C.H.S., Plot No. 8, Sector - 7, Airoli, Navi Mumbai - 400708.
Tel.: 65116548 u Telefax : 27694323 u Email: knowl786@rediffmail.com u Web : www.kitektechnologies.com

4. DN-04 FLIP FLOP/ SHIFT REGISTER BOARD



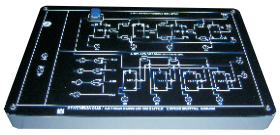
- Experiments on RS, T, & D Flip Flop.
- Experiments on JK Flip Flop & Master Slave JK Flip Flop.
- Experiments on Universal Shift Register.

5. DN-05 MULTIPLEXER/DEMUX/ MAGNITUDE COMPARATOR BOARD.



- Experiments on 8 channel Multiplexer.
- Experiments on 8 channel Demultiplexer.
- Experiments on 4 bit Magnitude Comparator.

6. DN-06 SYNCHRONOUS/ ASYNCHRONOUS COUNTER BOARD.

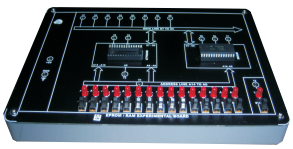


- Experiments on 4 bit Asynchronous Counter.
- Experiments on 4 bit Synchronous Counter.

7. DN-06 8 BIT ADC & DAC BOARD.

- Experiments on 8 bit Analog to Digital Convertor.
- Experiments on 8 bit Digital to Analog Convertor.

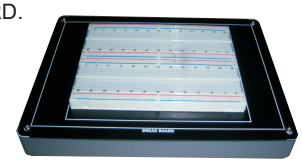
8. DN-08 EPROM/RAM EXPERIMENTAL BOARD



- Experiments on Program & Write operation of 64k Eprom.
- Experiments on Read & Write operation of 32K RAM.

9. DN-09 CPLD XC9572 BOARD.
- Experiments on Full Adder, Adder/ Subs tractor.
- Experiments on Seven Segment Decoder.
- Experiments on Binary to Grey Conversion.
- Experiments on Comparator, Decoder, Demultiplexer.
- Experiments on Encoder, Multiplexer, Parity Generator.
- Experiments on T, D JK Flip Flop

10. EXPERIMENTAL GENERAL PURPOSE BOARD.



- 1280 tie point bread board.

Analog experimental boards:

1. AN-01 BASIC ELECTRICITY EXPERIMENTAL BOARD.
- Experiments on Theorems, Ohms Law, KCL, KVL.
- Experiments on charging & Discharging of capacitors.
- Experiments on Half/Full wave Rectifiers, Filters.

2. AN-02 OPERATIONAL AMPLIFIER BOARD.
- Experiments on Inverting/Non Inverting amplifiers.
- Experiments on Summer /Differentiation / integrator amplifiers.
- Experiments on Precision/Half/Full Rectifiers.
- Experiments on current to voltage & Viz amplifiers.
- Experiments on Opam Characteristics.
- Experiments on Schmitt Trigger /Comparator/ Sine Changer.
- Experiments on Clipping & Clamping circuit.
- Experiments on Sine/Square/Triangular Waveform generator.

3. AN-03 SEMICONDUCTOR EXPERIMENTAL BOARD.
- Experiments on Characteristics of Silicon Diode.
- Experiments on Characteristics of NPN/PNP Transistors.
- Experiments on Characteristics of DIAC, UJT, MOSFET.
- Experiments on Characteristics of FET, SCR, Traic.

4. AN-04 OPTO ELECTRONICS EXPERIMENTAL BOARD.
- Experiments on Characteristics of Photo Diode/Transistor.
- Experiments on Characteristics of LDR
- Experiments on Characteristics of LED
- Experiments on Characteristics of OPTO

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