ANALOG - DIGITAL TRAINER

MODEL - XPO – ANADIGI

SALIENT FEATURES

- Aesthetically designed injection moulded electronic desk.
  Master unit carrying useful experiment resources Variable Power supplies/ Status / Pulsar/ Function Generator, DPMs etc. while the central slot will hold various replaceable experiment panels.
- Connection through Sturdy 4mm Banana Sockets & Patch Cords.
- Hands on learning by constructing circuits using built in power bread board panel as well as optionally using Discrete component panel.
- Set of Users Guide provided with each Unit.

SPECIFICATIONS OF MASTER UNIT

- Built in Power Supply
  DC. Power Supply : 5V / 1A
  ± 12V, 500mA
  Variable : 0 - + / -12V 150mA,
  AC 12 – 0 – 12, 150mA AC
- Built in Function Generator
  Output Waveform - Sine, Triangle & Square / TTL
  Output Frequency - 1 Hz to 200KHz in 6 ranges, with amplitude & frequency control pots. O/P Voltage 20V p-p max.
- Clock Generator : 10 MHz TTL clock.
- Input Data Switches and output LED status indicators for High/Low indication (15+1) No.
- Pulser switches (2 nos.) With four debounced outputs..2no.
- Fixed TTL (5V) clocks : 4 Nos. 1KHz, 100Hz, 5Hz, 1Hz
- Logic probe to detect High/Low level pulses upto 1MHz, With bi-colour LEDs to indicate status.
- 2 digit 7 segment display with BCD to 7 segment decoder.
- LED BAR graph with 10 LED indicator to display 0-2.5V or 0-4V input.
- Onboard DPM is provided with mode selection.
  DC volt / current - 200mA/20V .....……..1no.
- Onboard speaker - 8 Ohms, 0.5 Watt (1no.)
- Onboard POTS.....1K(1no.) & 1M(1no.)
- Built in bread board panel with 1280 tie points and 400 distribution points totalling to 1680 points along with 4mm banana sockets fortapping from the trainer +5V, +12V GND for the circuits to be assembled on bread board using single stand (#22/24)wire.
- Computer Interface Adapter
  Facilitates connecting your trainer to either IEEE 488 or RS232 com port of PC using 25 pin (male) D connector through 25 nos. of banana sockets. Optionally a 16 pin ZIF may be provided in place off 'D' connector.
- Mechanical Dimensions
  (A) Master Unit : 400mm(W), 125mm(H), 270mm(D)
  Net weight: 8Kg. Gross wight: 10Kg.
  (B) Panel : 215mm(W), 165mm(H), 40mm(D)
  Net weight: 700 gm approx.
- Operating Voltage - 230V +/- 10%, 50Hz/72VA.

OPTIONAL ACCESSORIES :

Discrete Component Panel (DCP)	Panel with following discrete components 7 – Resistors, 5 – diodes, 1 – LDR, 1 – Zener, 3 – NPN transistors, 1 – PNP transistors, 1 – UJT, 4 – Capacitors, 1 – HV Capacitors, 2 – SCR, 2 – FET & MOSFET, 1 – 12v RELAY, 3 – Inductors, 1 – Linear pot, 1 – Triac, 1 – Audio transformer, 1 – PUT, 1 – HW Resistor, 1 – DIAC, 92 – Banana sockets for patch cording to construct various circuits.				
DIP / ZIF panel **(order separate DIP/ZIF panel for each of application)**	**Model →**	**Digital IC Trainer (DIT I)**	**TTL CMOS Trainer (DIT II)**	**Linear IC Trainer**	**ZIF Panel**
	IC used	7400, 04, 08, 32, 86, 76, 90, 76, 95 or 02	74280, 7407, 74HCT14, 4011, 7485, 74191, 4051, 74123	LM339, TL084, 741, 555	40 pin universal ZIF socket, 16 pin socket
	No. of sockets	142	142	142	76
	Discrete component used	10Kx1, 0.1µ F x 1, 100K pot	10K x 2, 100K pot, 4K7 x 1, 220K x 1, 0.1µF x 1, 0.047µF x 1	Resistors (15nos), Cap. 15nos),Transistor (2Nos), Diodes(4Nos), Zener (1no.) Regulator (3nos), Pot (1no.)	10Kx2
	No. of Expt.	>50 / TTL characteristics combinational logic, asynchronous, synchr. counters, Flip Flop	>22 / CMOS characteristics, CMOS TTL I/F, Flip Flop, parity, mux-demux, mono-stable, synchronous counter	>40	Various
Overlay Learning System (OLS) Set of Components useful for above OLS	**Digital** 16 Nos. of tracings supporting 56 Experiments.	**Analog** 14 Nos. of tracings supporting 39 Experiments.			
	As per your order and specification consisting of Resistor (92 nos.) , Capacitor (43nos.), Inductor (4 nos.), Transistor (11 nos.), Diode (9 nos.) , LEDs (13 nos.), ICs (53 nos.)etc. Supplied with 22 or 24 SWG SS Hook up wires for BB panel 1mtr length & 4mm to 22 SWG SS (300mm) x 10nos.				
Bread Board Trainer (Power Project Board)	Bread board : With 1280 tie points & 400 distribution points totaling to 1680 points with built in power supply : +5V, +/-12V, Variable 0 to +/-12V				

LABWISE EXPERIMENT PANEL SELECTION CHART

Networks & Fields (3)	Discrete Electronics(13)	Digital Electronics(10)	Opamps / Linear Electronics(8)	Power Electronics(7)	Communication Electronics(5)
Magnetism, Electro-magnetism & Transformer Characteristics (P1) DC/AC & Wave Shaping Circuit (P2) 3 Phase Laws (P36)	Semiconductor & Power Semiconductor Devices (P3) Silicon Bilateral Switch (SBS) Sensors & Transducers (P4) Rectifier, Filter, Zener Regulator (P5) Voltage Regulator (P6) Transistor h-parameters & CB/CC/CE amplifiers (P7) Transistor Amplifier (P8) Transistor class A, Class B, Class C Amplifier (P9) Transistor / Diode Applications (P10) Oscillator & Multivibrator (P11) DC/AC Bridge circuits (P24) JFET, MOSFET & IGBT (P31) Oscillator & Amplifier (P35) Discrete component Trainer (DCP)	Digital IC Trainer (DIT I) TTL CMOS Trainer (DIT II) Digital Logic Gates (P12) Flip Flop, Counters & Shift Register (P13) Multiplexer, Decoder & Encoder (P14) Half/Full Adder, Subtractor, ALU (P15) Analog Multiplexer / Demultiplexer & ADC, DAC (P26) Study of Logic Gates & Applications (P28) ADC & DAC Circuits (P33) Memory (P34)	Liner IC Trainer Operational Amplifier Circuit (P16) Advance Operational Amplifier (P17) Application of Operation Amplifier (P18) Analog Multiplexer / Demultiplexer & ADC, DAC (P26) Passive / Active / M Derived Filter (P32) ADC & DAC Circuits (P33) Oscillator & Amplifier (P35)	Power Semiconductor Application (P20) DC-DC, converters (P21) Power Semiconductor Application (P22) Stepper Motor Demonstrator (P25) Switch Mode Power Supply (P29) 3 Phase sequence indicator and Fault Study (P30) 3 Phase Laws (P36)	Application of Operation Amplifier (P18) AM / FM Transistor Radio kit (P19) FM Transmitter (P23) Microphones & hand speaker (P27) Passive / Active / M Derived Filter (P32)

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Specifications subject to change without notice.