
Product Name : Basic Electronic Trainer	Product Code : Instrumentation0009
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Description :

Basic Electronic Trainer

Technical Specification :

Basic Electronic Trainer

The Training System Consist Of The Following Modules :

Basic Electric Circuits Module :

- Diode and Transistor Switch
- Inverter and Inverter / Non Inverter OP Amp
- Voltage Follower and Comparator
- Zero Crossing Detector
- Photoelectric controller

Waveform Generator Module :

- Schmitt Trigger and Sparking Lamp
- 555 Delay Circuit and Astable Multi vibrator
- Delay Turn Off Circuit
- OPA Astable Multi-vibrator
- TTL and OPA Crystal Oscillator

Digital Circuits Module :

- BCD Adder and Sub-tractor
- Mono-stable and Alarm Circuit
- Touch Switch and 4518 Counter
- LCDM and Digital Display Circuit

Signal Process Circuits Module :

- R-2R Ladder Network
- A/D and D/A Converter
- Low-pass, High-pass, Band-pass and Band-stop Filter

Regulator DC Power Supply Module :

- 7805 and 7905 Regulator Characteristics
- 7805 and 7905 Expanded Voltage
- 7805 and 7905 Voltage Regulator
- 7805 and 7905 Current Source

LED & Transistor Application Circuits Module :

- Electrons Competition answer Machine
- Basic Remote Lamp Controller (DC)
- Remote Lamp Controller (AC)
- Electronic Wheel amusement machine

Function Generator & DC Power Supply Module :

- Waveforms : Sine, Triangle, Square, TTL Pulse
- Amplitude : $>10 V_{pp}$
- Impedance : $50\Omega \pm 10\%$
- Duty control : 30% ~ 60%

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- Display : 6 Digit LED Display
 - Frequency Range : 10Hz to 100KHz (4 ranges), 100Hz to 1MHz (4 ranges)
 - Frequency control : Separative coarse with fine tuning
 - Constant Voltage Output : $\pm 5V$, $\pm 12V$
 - Variable Voltage Output : $0V \sim \pm 15V$
 - Power Source : 220 ~ 230V AC, 50Hz, 1 Phase

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