



Electronics Process Technology Trainer

Equipment Overview

- This trainer can be used as an individual electronic skills training platform, or be grouped into various production lines to finish the electronic process training.
- This platform is suitable for operation such as manual welding, SMT welding, electronic assembly, complete set maintenance and so on.
- Designed with stabilized voltage supply, AC low-voltage current, function generator, buzzer, multiple socket, voltage regulator, fluorescent lamp, instrument stand, tool holder and so on, it provides a rich resource for electronic product measurement, debugging and new product development.
- By using various electronic components and assembly tools, students can not only exercise their ability of assembly and debugging, but also the ability of secondary development such as the curriculum design, graduation project and skill competition.

Technical Parameters

1. Input power supply: Single phase three wire 220V $\pm$ 10%, 50Hz
2. Working environment: Temperature -10°C~+40°C, relative humidity<85% (25°C)
3. Installed capacity: < 0.5KVA
4. Dimensions: 1300mm×650mm×2000mm (approx.)

Basic Configuration

- AC power supply
- Measuring meter
- DC power supply
- Function signal generator
- Six bit frequency meter
- Audio power amplifier
- Single pulse source
- Switch part

Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!





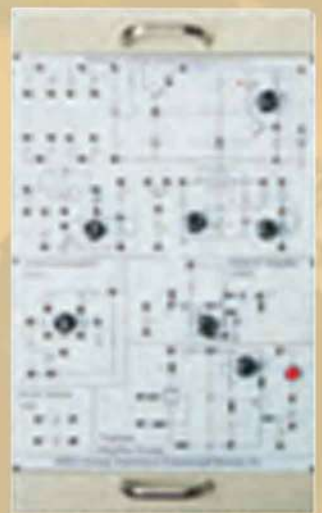
MD01, MD02 & MD03 Analog Electronics Experiment Module (I & II, III)



- (1) Single stage amplifying circuit
- (2) Two-stage amplification circuit
- (3) Negative feedback amplifier circuit
- (4) Emitter follower
- (5) Module size: 390mm×230mm×60mm



- (1) Integrated power amplifier circuit
- (2) DC voltage source
- (3) Complementary symmetry power amplifier circuit
- (4) Integrated operational amplifier circuit
- (5) Capacitors, resistors, diodes, stabilivolt
- (6) Module size : 390mm×230mm×60mm

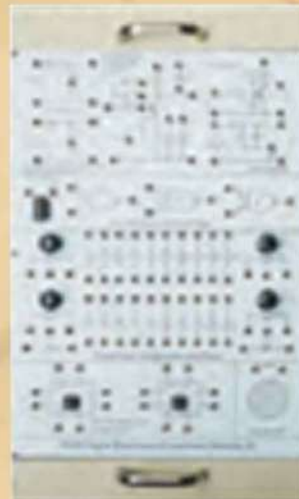


- (1) Stabilized voltage supply experiment circuit
- (2) Differential amplifier circuit
- (3) MOSFET amplifier circuit
- (4) Diode simple test circuit
- (5) Thyristor rectifier circuit
- (6) Module size: 390mm×230mm×60mm

SD01 & SD02 Digital Electronics Experiment Module (I & II)



- (1) Power input
- (2) Seven-segment nixietube (four groups)
- (3) H/L level indicating unit
- (4) 14-pin integrated package socket
- (5) 16-pin integrated package socket
- (6) 40-pin integrated package socket
- (7) Multistage potential regulator
- (8) Resistors, capacitors, level switches
- (9) Module size: 390mm×230mm×60mm



- (1) Diode limiter, Audion limiter, Diode clamper, Horn
- (2) Diode switching characteristic experiment circuit
- (3) Power input
- (4) Monostable trigger and Schmitt trigger
- (5) Experiment components and parts
- (6) 555 time base circuit and application
- (7) Module size: 390mm×230mm×60mm



Training Content

Digital Electronics Part

- Transistor switching characteristic, clipper and clamper
- Logical function and parameter test of TTL integrated logic gate
- Logical function and parameter test of CMOS integrated logic gate
- Integrated logical circuit connection and drive
- Combinational logic circuit design and test
- Decoder and its applications
- Data selector and its application
- Trigger and its application
- Counter and its application
- Shifting Register and its application
- Pulse distributor and its application
- 555 time-based circuit and its application

Analog Electronics Part

- Common electronic instrument usage
- Simple diode test
- The input-output characteristic experiment of the triode transistor
- Single stage amplifying circuit
- Two-stage amplification circuit
- Negative feedback amplifier circuit
- Emitter follower
- Differential amplification circuit
- Field-effect tube amplifier
- RC sine wave oscillating circuit
- LC oscillator and frequency-selective amplifier
- Integrated operational amplifier basic parameter testing
- Integrated operational amplifier proportion summing circuit
- Integrated operational amplifier integrating/differentiating circuit
- Integrated operational amplifier voltage comparator circuit
- Waveform generator
- Active filter
- Integrated power amplifier
- Complementary symmetry power amplifier
- Integrated voltage stabilizer
- Series voltage stabilizing circuit
- Thyristor controlled rectifying circuit

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