LINEAR CIRCUIT LAB (2) -*ELECTRONIC CIRCUIT LAB* KL-200

THE KL-200 LINEAR CIRCUIT LAB (2) — *ELECTRONIC CIRCUIT LAB* is a comprehensive and self-contained system suitable for anyone engaged in electronic circuit experiments. All necessary equipments for electronic circuit experiments such as power supply, function generator, analog and digital meters are installed on the main unit. The 17 modules covers a wide variety of essential topics in the field of electronics circuit. It is a time and cost saving device for both students and researchers interested in developing and testing circuit prototypes.

- *Ideal for electronic circuit experiments and designing exercises.*
- *Integrated experimental circuit and trainer, with complete electronic circuit experiment curriculum*
- *Complete supply and testing units for easy and efficient experiments.*
- *With universal breadboard for circuit designing and prototypes.*
- *All modules equipped with an 8-bit DIP switch for fault simulations.*

- *Individual storage case for all modules for easy carrying and storing.*

SPECIFICATIONS

MAIN UNIT(KL-21001)

① DC POWER SUPPLY

A. Fixed DC Power Supply
(1). Voltage Range : ±5V, ±12V
(2). Maximum Current Output : 0.3A
(3). With output overload protection.

B. Dual DC Power Supply
(1). Voltage Range : ±3V~±18V, continuously adjustable
(2). Maximum Current Output : 1A
(3). With output overload protection.

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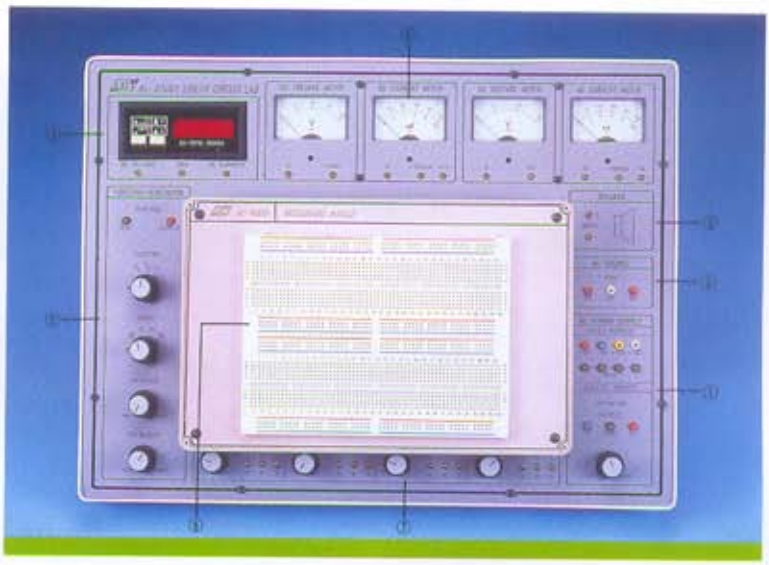


② AC POWER SUPPLY

(1). Voltage Range : 9V~0V~9V
(2). Maximum Current Output : 500mA
(3). With output overload protection.

③ SIGNAL GENERATOR

A. Function Generator

(1). Output Waveform : Sine, Square and Triangle.
(2). Output Frequency : 10 Hz~100 KHz, 4 settings, continuously adjustable.
(3). Accuracy : ±5% of full scale value.
(4). Output Impedance : 50Ω
(5). Output Voltage : ≥18Vp-p (open loop); ≥9Vp-p (with 50Ω load).

④ 3 1/2-DIGIT DIGITAL VOLTMETER/AMPMETER

A. DC Voltage Range : 2V, 200V
B. DC Voltage Accuracy : ±0.3% of reading + 1 digit
C. DC Current Range : 200μA, 2000mA
D. DC Current Accuracy : ±0.5% of reading + 1 digit

⑤ ANALOG METERS

A. AC Current : 0~100mA~1A
B. AC Voltage : 0~15A
C. DC Current : 0~100mA~1A
D. DC Voltage : 0~20V

⑥ SPEAKER

one 8Ω, 0.25W speaker with Vol

⑨ ACCESSORIES

A. Connect Lead: 2mm-0.65mm, 300mmL 6pcs.
B. User's Manual D. AC Cord
C. Fuse E. Anti-Dust Cover

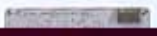
EXPERIMENT MODULES

1. 17 modules each secured on to a solid body plastic housing.
2. Each module is equipped with an 8-bit DIP switch for fault simulations. Students can practice trouble shooting by setting the DIP switch to different positions.
3. Detailed solution for the simulated faults are included in the instructor's manual.
4. All terminals on the modules accept 2mm plugs.
5. Comprehensive experiment and instructor's manual.
6. Module dimension: 255×165×30mm.

MODULES AND THE EXPERIMENTS THEY PERFORM

KL-23001 : Clipping & Clamping Circuits

KL-23002 : Rectifier, Differential & Integrator Circuits



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KL-23005 : Multi-Stage Amplification Circuits

KL-23006 OTL Amplifier Circuit

KL-23007 OCL Amp

KL-23008 : Oscillator Circuits (1)

KL-23009 : Oscillator Circuits (2)

LIST OF EXPERIMENTS

1. Characteristics of Diodes

1-1 Silicon Diode ..... KL-23001(A)
1-2 Germanium Diode ..... KL-23001(A)
1-3 Zener Diode ..... KL-23001(A)
1-4 Light Emitting Diode ..... KL-23001(E)
1-5 Optical Diode ..... KL-23001(E)

2. Clipping and Clamping Circuits with Diodes

2-1 Clipping Circuit (1) ..... KL-23001(B)
[illegible] ..... KL-23001(D)
[illegible] ..... KL-23001(D)

3. Rectifier Circuits

3-1 Half Wave Rectifier Circuit ..... KL-23002(C)
3-2 Full Wave Rectifier Circuit ..... KL-23002(C)
3-3 Bridge Rectifier Circuit ..... KL-23002(C)
3-4 Dual Power Supply Rectifier Circuit ..... KL-23002(C)
3-5 Voltage Magnifying Rectifier Circuit ..... KL-23002(B)

4. Differential and Integration Circuits

4-1 RC Direct Current Charge/Discharge Circuit ..... KL-23003(D)
4-2 Differential Circuit : Square Wave ..... [illegible]

KL-200 LINEAR CIRCUIT LAB (2) -ELECTRONIC CIRCUIT LAB

ACCESSORIES (KL-28002)

A. Connect Leads: 2mm-2mm, 300mmL, 25pcs
B. Connect Plugs: ø2mm, 10mmL, 10pcs
C. Experiment manual and Instructor's manual.
D. Key: 1pc

GENERAL CHARACTERISTICS

A. Individual storage case for each module (205×295×65mm).
B. Power Source : 110V/220V±10%, 50/60Hz
C. Operating Temperature: 0°c~50°c
D. Humidity : <90% relative humidity
E. Dimension : 400×300×130mm
F. Weight : Approx. 5.8 Kg