



[1] The unit is a comprehensive training aid, covering the range from electrophysics to DC and AC circuits, to application to general electronics circuits. The unit includes an additional module to study three-phase circuits.

[2] The training unit includes:

- The power supply providing AC and DC voltages to perform the experiments
- A BreadBoard
- A set of plug-in cables
- The instruction manual

[3] Topics of study include:

CC TECHNOLOGY

- Polarity of DC voltages and currents
- Ohmic resistance
- Ohm's Law
- Non-linear resistance: the incandescent lamp
- Differential resistance
- The NTC thermistor
- Photoresistor (LDR)
- The characteristic of the diode
- The characteristic of the Zener diode
- The light-emitting diode (LED)

SERIES AND PARALLEL RESISTORS

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Series circuit
- Parallel circuit
- Voltage divider
- Loaded voltage divider
- The potentiometer
- The Wheatstone measuring bridge
- Kirchhoff's laws
- Thévenin and Norton's theorems

DIRECT CURRENT MEASUREMENTS

- DC measuring instruments
- The Voltmeter
- The Ammeter
- Equivalent circuit of a generator
- DC power
- Power transfer

The unit is a comprehensive training aid, covering the range from electrophysics to DC and AC circuits, to the application of general electronic circuits.

The training unit includes:

- The power supply that provides the DC and AC voltages to perform the experiments
- A set of plug-in cables
- The instruction manual

Topics of study include:

- DIRECT CURRENT TECHNOLOGY
- SERIES AND PARALLEL RESISTORS
- DIRECT CURRENT MEASUREMENTS
- BATTERIES
- AC CIRCUITS: RESISTANCE, REACTANCE, AND AC POWER

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1 – DIRECT CURRENT TECHNOLOGY:

- 1.1 – Resistance of direct voltages and currents
- 1.2 – Ohmic resistance
- 1.3 – Ohm’s law
- 1.4 – Non-linear resistance: the incandescent lamp
- 1.5 – Differential resistance
- 1.6 – The NTC thermistor
- 1.7 – The positive temperature coefficient resistor (PTC)
- 1.8 – The photoresistor (LDR)
- 1.9 – The characteristic of the diode
- 1.10 – The characteristic of the Zener diode
- 1.11 – The light emitting diode (LED)

2 – RESISTORS IN SERIES AND PARALLEL:

- 2.1 – Series circuit
- 2.2 – Parallel circuit
- 2.3 – Voltage divider
- 2.4 – Loaded voltage divider
- 2.5 – The potentiometer
- 2.6 – The Wheatstone measuring bridge
- 2.7 – Kirchhoff’s laws
- 2.8 – Thévenin and Norton’s theorems

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