



**[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
- Kirchoff'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

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