

AC/DC Training System

LabVolt Series 3351

FESTO



A Complete Program for Learning AC/DC Fundamentals

The AC/DC Training System introduces students to the basic principles of electrical circuits, both alternating current (AC) and direct current (DC) through theory and hands-on exercises. It is a flexible, cost-effective solution for rapidly building knowledge in electricity and electrical circuits, which is crucial for future electrical technicians, or any technician that has to deal with electricity.

Carefully designed for portability, the system allows for safe exploration and manipulation of the most common electrical components, such as power sources, resistors, inductors, capacitors, transformers, switches, relays, and motors.

Benefits

- Comprehensive curriculum covering all important concepts related to AC and DC circuits
- Includes the most common electrical components found in modern electrical circuits
- Safe and sturdy for student experimentation
- Powered using a standard AC wall outlet
- Includes six built-in faults to enhance troubleshooting skills
- Rugged case for easy transportation and storage

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Topics covered

- Basic concepts of AC and DC circuits and most common electrical components
- Ohm's and Kirchhoff's Laws
- Use of measuring instruments
- Series and parallel circuits
- Electromagnetism
- Electrical distribution
- Troubleshooting

The system includes two student manuals (AC and DC Circuits) and an instructor guide. The manuals provide comprehensive theory presentations, guided easy-to-understand lab procedures, and review questions.

Estimated program duration:
50 hours

Inside the suitcase

Components fixed to the front panel:

- DC power source (protected)
- AC power source (protected)
- A selection of resistors
- An inductor, parallel-connected to a fluorescent light
- Two capacitors
- Transformer
- A selection of switches: SPST, SPDT, DPDT, NO push button, NC push button, selector switch, knife switch
- DC relay
- AC relay
- A selection of indicator lights: green, yellow, red
- Potentiometer
- DC motor
- Solenoid
- Buzzer
- Circuit breaker with test components
- Fuse

Individual components that can be fixed to or stored in the case lid:

- Two multimeters
- Connection leads set
- Compass
- Iron rod (for electromagnetism experiments)



Find out more about this AC/DC training solution and many others at www.labvolt.com.

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