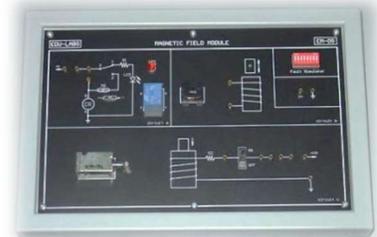
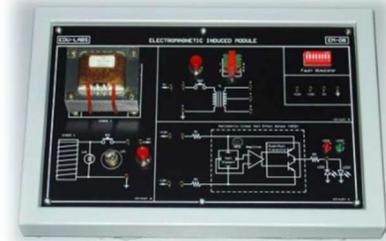


MAGNETISM SYSTEM TRAINER

EE-3500

SCIENSCOPE
EDU-LABS



The EE-3500 Magnetism System Trainer is a comprehensive and self-contained system specially designed for Magnetism Circuit experiments training. The system consists of a Universal Lab Station and 5 Experiment Modules covering a wide variety of essential topics in the field of Magnetism Circuit. It is a time and cost-saving device for both students and researchers interested in developing and testing Magnetism Circuit's prototypes in institutions and universities.

System Consist Of:

- Universal Lab Trainer ULS-2000
- Magnetic Devices Module EE-3500-01
- Magnetic Field & Magnetism Application Module EE-3500-02
- Ampere's Rule Module EE-3500-03
- Fleming's Rule Module EE-3500-04
- Electromagnetic Induced & Flux Detection Module EE-3500-05
- Accessories Pack EE-3500-AP

Experiments Cover:

Experiment 1: Magnetic Devices

1. To understand the types and properties of magnets.
2. To learn how to operate relays.

Experiment 2: Magnetic Field

1. To demonstrate the applications of magnetic field.
2. To learn how to use magnetic devices in alarm circuits.

Experiment 3: Drawing Magnetic Curves

1. To understand the properties of magnetic field.
2. To draw the lines of force or flux lines.

Experiment 4: Magnetic Field Strength

1. To understand the magnetic field strength around a coil.
2. To study the factors for producing a magnetic field.

Experiment 5: Lenz's and Faraday's Laws

1. To become familiar with Lenz's Law in electromagnetic induction.
2. To become familiar with Faraday's Law in electromagnetic induction.

Experiment 6: Ampere's Rule

1. To verify the right-hand rule by using a single wire.
2. To verify the right-hand rule by using a coil.

Experiment 7: Fleming's Rule

1. To become familiar with Fleming's left-hand rule.
2. To become familiar with Fleming's right-hand rule.

Experiment 8: Self Induction

1. To understand the self-induction of a coil.
2. To verify the phenomenon of self-induction.

Experiment 9: Mutual Induction

1. To understand the mutual-induction between coils.
2. To verify the phenomenon of mutual-induction.

Experiment 10: Magnetic Flux Detection

1. To learn the operating principle of a Radiometric Linear Hall Effect Sensor (Magnetic-flux-density sensor).
2. To understand the application of the magnetic flux detector circuit.

Universal Lab Station ULS-2000 Specification:

1. DC Power Supply Module

Fixed Output: +5V/0.5A, -5V/0.5A, +12V/0.5A, -12V/0.5A
Variable Output: +0V to +25V/0.5A, -0V to -25V/0.5A

2. AC Power Supply Module

19V-15V-9V-0V-9V-15V-19V

3. Function Generator Module

Sine, Triangle and Square waveform output

Frequency range: 1Hz to 1MHz in 6 decades

With fine adjust, Amplitude and DC offset control

TTL output 1Hz to 1MHz in 6 decades

Six frequency ranges:

- 1Hz to 10Hz
- 10Hz to 100Hz
- 100Hz to 1KHz
- 1KHz to 10KHz
- 10KHz to 100KHz
- 100KHz to 500KHz

Sine wave output: 0 to 12V peak to peak variable

Triangle wave output: 0 to 8V peak to peak variable

Square wave output: 0 to 20V peak to peak variable

4. Five (5) Data Switches Module

5. Multi Interface Adaptor Module

Miniature Socket, 2mm Socket & 4mm Banana Adaptors

Accessories Pack EE-3500-AP:

- 2mm Stackable Test Lead Sets
- Neodymium Magnet Bar
- Instruction Manual & Experiments Manual.
- Power Cord

The EE-3500 is shipped with a comprehensive user's manual, 2mm test lead set and a power cord.
Power Supply: 240VAC, 50Hz (Fused Protected)

Note: Due to products continuous development process, layout and specification may change without prior notices.