

# Product Information Sheet

## Electric Vehicle Electronics Trainer



DIGITAL  
CURRICULUM  
INCLUDED



The Electric Vehicle Electronics Trainer is a practical resource that introduces students to the range of core electronics topics required for the understanding and troubleshooting of Electric Vehicles.

The trainer is an ideal resource for a basic automotive/EV electronics program and includes access to digital curriculum materials, including theory and practical learning tasks. With this trainer these lessons start with a basic introduction to electricity using switches and lamps.

The trainer includes authentic automotive input, safety, process, and output devices – all designed to be most familiar to auto technicians. These devices include a servo motor and an auto fuse and fuse holder. The 12V input (simulating a vehicle battery) and 0V to 14V output indicator are also auto-themed.

An **optional range of experiment cards** are available to extend the practical study of further Electronic Vehicle electronics topics.

Switchable faults can be inserted, enabling students to investigate electronic fault-finding techniques.

### Devices On-board Trainer:

- All on-board power supplies are short circuit/overload protected
- Experiment card mounting area
- Circuit patching area
- Servo motor
- 5A auto fuse and holder
- Two rocker switches
- Two push-button switches
- Slow and fast range clock
- Linear voltage display
- Amplifier and buzzer
- Three position rotary switch
- 12V 25A SPCO auto relay
- DPCO relay
- Two LED outputs
- Linear slide variable resistor
- Variable, +5V, and +12V power supplies

### Included in Component Set:

- A total of 28 components mounted on robust carriers and 2 ICs
- 2x Toggle switches
- 4x Lamps (12V)
- Resistors (47R, 100R, 1K, 4.7K, 10K, 47K, 100K, 220K)
- Capacitors (1  $\mu$ F, 10  $\mu$ F, 100  $\mu$ F)
- Inductor (100 mH)
- Sensors (microphone, thermistor, phototransistor)
- Diodes (4x 1N4001)
- Potentiometer (10K)

### Items Included:

- Study trainer
- Component set
- Headphones
- Curriculum in digital format
- Connection lead set
- Storage case

### Other Items Required:

- Experiment cards from the 320 series (optional)
- Some tasks will require a dual trace oscilloscope and one or more multimeters

### General Information:

Power Requirements:  
110 – 240V, 50-60Hz  
Shipping Volume: Approx. 0.024 m<sup>3</sup>  
Shipping Weight: Approx. 4 kg

**Order Code: 730-10**

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