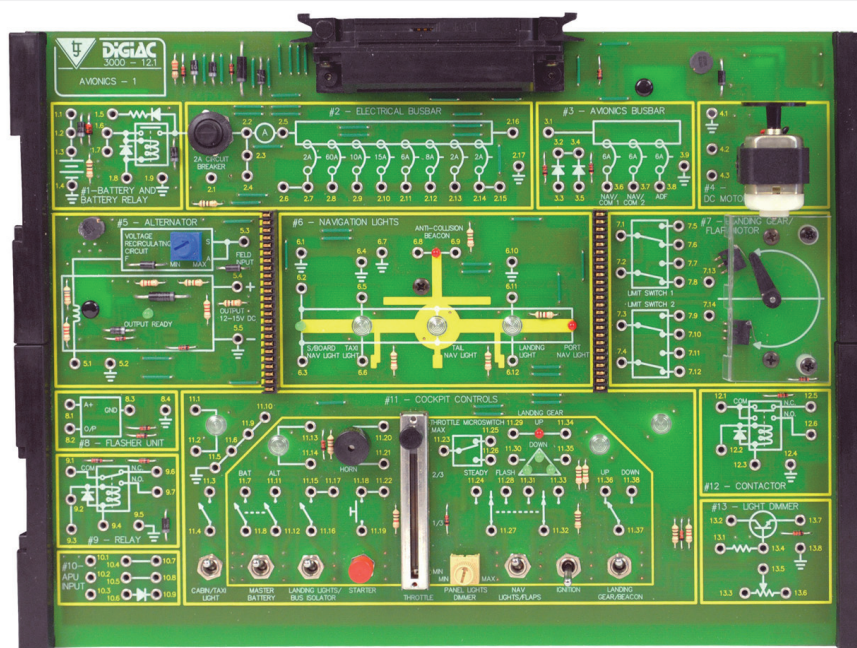


Product Information Sheet

Avionics 1 Study Module



This electronics study module is designed to connect to the Advanced Electronics Experiment Platform (300-01) as part of a modular electronics programme.

This resource introduces students to aircraft electrical circuits, including power supplies, power distribution systems, lighting systems, and landing gear and flap control and indication systems.

Using the Advanced Electronics Experiment Platform, a range of faults to be selected and inserted into the study module circuits to develop electronic diagnostic and faultfinding techniques.

The study module is supplied with PDF manuals that provide theory materials, practical tasks, faultfinding activities, and technical information.

Topics Include the Following:

- Single Engine Aircraft Electrical Systems
- Single Engine Power Distribution Systems
- Single Engine Power Supply Systems
- Cessna Single Engine Electrical Power Systems
- Single Engine Internal Lighting Systems
- Single Engine External Lighting Systems
- Landing Gear Control and Indication Systems
- Flap Control Systems
- Base Unit Practice Session

Typical Activities Include:

- Investigating how the battery and its associated circuitry functions
- Troubleshoot faults in an electrical circuit
- Investigating the operation of the distribution circuit
- Identify the operation of an inverter
- Investigating the operation of an alternator and its components
- Identify the electrical power supply systems that are available on the various Cessna aircraft
- Troubleshoot faults in an electrical power circuit

- Investigating the operation of a rheostat
- Identify landing gear indication and safety systems
- Investigating the operation of a flap control system

Items Included:

- Circuit Card
- Storage Case
- Curriculum Manual in PDF Format

Other Items Required:

- 300-01 Advanced Electronics Experiment Platform
- Digital Multimeter

General Information:

Dimensions: 81 x 323 x 256 mm (W, H, D)
Shipping Volume: Approx 0.008 m³
Shipping Weight: Approx 2 kg

Order Code: 312-01

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