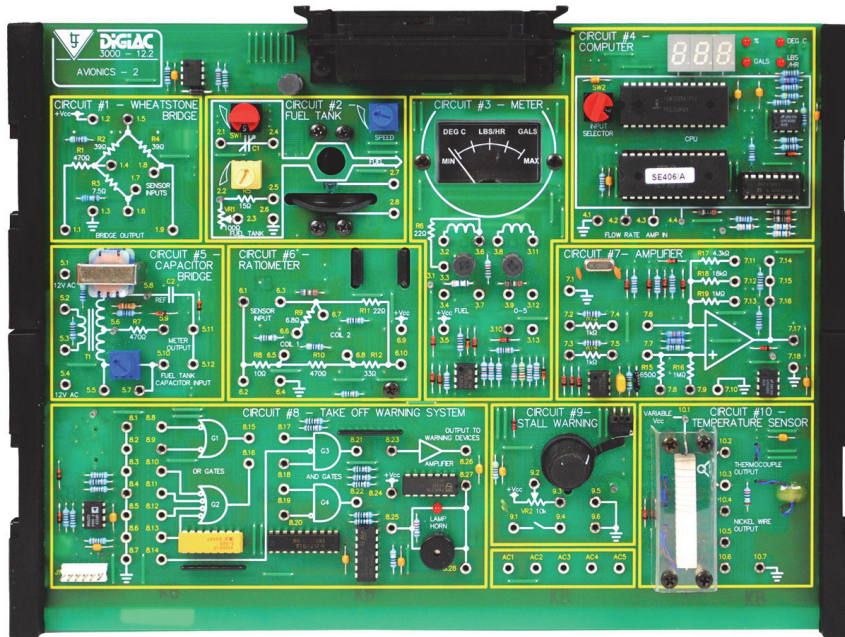


# Product Information Sheet

## Avionics 2 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 warning systems as well as sensor and display 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:

- Stall Warning Systems
- Take Off Warning Systems - 1
- Take Off Warning Systems - 2
- Temperature Systems Incorporating Nickel Wire Sensors
- Temperature Systems Incorporating Thermocouple Sensors
- Fuel Quantity Measurement Using a Capacitor Bridge
- Fuel Quantity and Fuel Flow Measurement

### Typical Activities Include:

- Investigating how a vane switch stall warning system works
- Investigating the relationship between stall warning and angle of attack sensors.
- Identify the function of logic gates that might be found in a take off warning system
- Investigating how a basic take off warning system works
- Investigating how temperature is measured using Nickel Wire sensors
- Investigating how Wheatstone bridge and ratiometer temperature measuring circuits operate
- Investigating how temperature is measured using Thermocouple sensors

- Diagnose fault conditions in temperature systems
- Investigating how fuel is measured using a capacitor probe and bridge
- Investigating how fuel flow is measured using a rotating disk to interrupt a light beam
- Faultfinding on avionics circuits

### Items Included:

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

### Other Items Required:

- 300-01 Advanced Electronics Experiment Platform
- Digital Multimeter
- Dual Trace Oscilloscope

### General Information:

Dimensions: 81 x 323 x 256 mm (W, H, D)  
Shipping Volume: Approx 0.008 m<sup>3</sup>  
Shipping Weight: Approx 2 kg

**Order Code: 312-02**

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