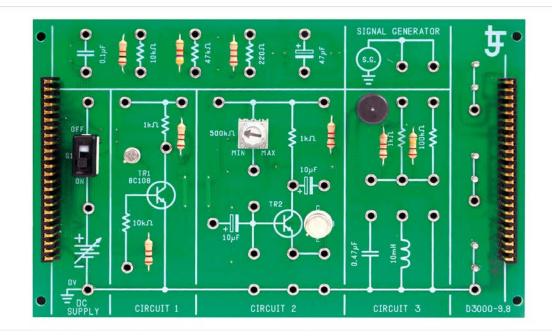
Product Information Sheet

AC Circuits and Bipolar Transistors





This electronics study card is designed to connect to the 409-01 Experiment Platform or to the 300-01/300-02 Advanced Electronics Experiment Platforms* as part of a modular electronics programme.

This practical resource introduces students to the basic concepts of AC circuits through a wide range of practical activities.

This resource is ideal for use within an intermediate electronics program.

The board can be also be used in conjunction with our optional cloud-based software, which offers online practical electronics tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

Practical Tasks Include the Following:

- Resistors on an AC Supply
- Capacitors on an AC Supply
- Troubleshooting a Capacitor Network
- Inductors on an AC Supply
- RC and RL Circuits on an AC Supply
- RLC Circuit on an AC Supply
- Testing Transistors
- Characteristics of an NPN Bipolar Transistor
- The Simple Transistor Amplifier
- Transistor Amplifier Biasing
- Troubleshooting a Common Emitter Amplifier
- Common Collector Amplifier (Emitter Follower)

Items Included:

- Circuit Card
- Storage Case
- Manuals in PDF Format on CDROM

Other Items Required:

- 490-01 Experiment Platform
- Digital Multimeter
- Dual Trace Oscilloscope
- Function Generator

or

- 300-02 Advanced Electronics Experiment Platform
- 409-02 Experiment Card Motherboard

General Information:

Dimensions: 50 x 238 x 175 mm (W, H, D)

Shipping Volume: Approx 0.002 m³ Shipping Weight: Approx 0.35 kg

Order Code: 419-08

^{*} Note: to connect to 300-01, 300-02, D3000 EXP or D3000 VIP2 you will also need a 409-02 Experiment Card Motherboard.