



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 is divided into 5 distinct circuit areas, and enables the learner to explore SCR and UJT devices and their applications 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.

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

### Practical Tasks Include the Following:

- Silicon Controlled Rectifier
- Capacitor Commutation of an SCR Circuit
- AC Applied to an SCR
- UJT Oscillator
- UJT SCR Control
- Troubleshooting an AC Phase Control Circuit
- The Triac and Diac

### Items Included:

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

### Other Items Required:

- 490-01 Experiment Platform
- Digital Multimeter
- Dual Trace Oscilloscope
- 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 m<sup>3</sup>  
 Shipping Weight: Approx 0.35 kg

**Order Code: 419-09**

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