



1. Lascells Faraday's Law Apparatus

This system provides a simple and effective method of studying Faraday's Law. An acrylic tube supports an easily moved coil so that a small cylindrical magnet (supplied) can be dropped down the tube to generate a pulse of electricity as it passes through. An oscilloscope is used to monitor the pulse and measure its amplitude. At different speeds the amplitude varies and can be used by senior students to investigate Faraday's law while revising equations of motion to determine the speed. Twin coils, 150 and 300 turns, allows for extra versatility. Recommended for KS4/Post-16.

Code	Pack	Price
PY3006	Each	£47.13



2. Inspire Ring Launcher

A fantastic demonstration of electromagnetic induction. The Ring Launcher comprises of a long solenoid with an iron core (removable for easy transportation) and is accompanied by an accessories kit. When an AC current is applied to the solenoid it creates EMF in the aluminium ring placed over the solenoid and the resulting magnetic field propels the ring upwards off the solenoid. The solenoid is covered by an adjustable sleeve which allows the user to vary the height to which it is propelled.

The Ring Launcher accessories include: an aluminium ring, a split aluminium ring, a plastic ring and a 3 turn copper wire coil and MES bulb. The mains transformer is protected by a resettable thermal fuse. Supplied with full instructions and fully CE compliant to BS EN 61010-2010.

- Eye catching demonstration of EMF induction in AC fields
- Launch rings to over 2 metres high
- Remote two part launching for improved safety
- Supplied with full accessories and instructions

Code	Pack	Price
PY5140	Each	£206.50



3. Lascells Hall Effect Probe

The unit is ideal for measuring magnetic fields ranging from strong, permanent magnets down to weak fields such as that of the Earth. The range is -70mT to $+70\text{mT}$ and the readout is displayed in tesla on the integral display. Three range settings allow field strengths from $10\mu\text{T}$ to 70mT to be displayed. The sensor output is also taken to 4mm sockets to allow a digital multimeter (not supplied) to be connected. Output from the sensor is in the range -2.5 to $+2.5\text{V}$. The control circuitry and display are contained in a robust case with the sensor mounted in a 90° probe.

Code	Pack	Price
PY3030	Each	£112.55



4. Lascells Magnetic Field Unit

Clear acrylic base assemblies which are suitable for bench or overhead projector use. Can be used to demonstrate magnetic field patterns around conductors using plotting compasses or iron filings. Three types are available requiring a DC power supply capable of providing 5-8A. The twin coil model has a single turn coil rated at 8A max and 5 turn coil rated at 5A max.

Base dimensions: $150 \times 150 \times 45\text{mm}$ with connection via 4mm sockets. Available models must be ordered individually.

Code	Description	Pack	Price
PY3012	Vertical wire field	Each	£26.04
PY3014	15 turn solenoid	Each	£28.33
PY3016	Twin vertical coils	Each	£27.65