# Datalogging – LogIT

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# 1. Light LUX Sensor, Wide Range

The LUX sensor is intended for light intensity measurement, primarily the monitoring and recording of trends and changes in environmental levels of natural light.

- Accuracy: ±9%
- Resolution: 10 LUX
- Peak spectral response 565 nanometres
- Radiant sensitivity area: 7.5 square millimetres
- Calibration point: 5000 LUX (natural)

Applications: experiments requiring calibrated measurement, very low power lasers and most applications listed for the general light level sensor. Often used with a sensor extension lead.

Code	Pack	Price
L0G6068	Each	£43.77

#### 2. Magnetic Field Sensor

Intended for educational investigations into the characteristics and strength of magnetic and electromagnetic fields. The device contains a miniature Hall effect solid state sensor mounted on a flexible probe to allow easy access to coils etc.

- Nominal accuracy: ±9%
- Range: -90 to +90mT magnetic flux density

Applications: magnetic field through a coil, electromagnetic induction. Often used with a sensor extension lead.

Code	Pack	Price
L0G6074	Each	£76.41

## 3. Voltage Sensor

Designed for general voltage measurement in electronic circuits or for connecting to other sensors.

- Range: -25 to +25 volts DC
- Nominal accuracy: ±1% over voltage range
- Resolution: 0.02 volts DC

Applications: studying solar cells, electric motors, induced emf, potential difference across components (e.g. lamp, resistor, zener diode). Ohms law (with current sensor), battery discharge, electronic oscillator output, capacitor discharge.

Code	Pack	Price
L0G6076	Each	£45.28

## 4. Current Sensor

This adapter and probe set allows easy measurement of current in a DC circuit. When measuring voltage at the same time the negative terminal of each probe must be connected to the same point in the circuit.

- Range: ±1 A DC (max circuit voltage 25V)
- Nominal accuracy: ±1%

Applications: current measurement with resistor or lamp, Ohm's law, heating effect of current (with temperature sensor), power (with voltage probe), capacitor discharge.

Code	Pack	Price
L0G6078	Each	£52.00



