

1 LogIT world



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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: $\pm 9\%$
- 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 |
|---------|------|--------|
| LOG6068 | Each | £43.77 |

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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: $\pm 9\%$
- 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 |
|---------|------|--------|
| LOG6074 | Each | £76.41 |

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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: $\pm 1\%$ 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). Ohm's law (with current sensor), battery discharge, electronic oscillator output, capacitor discharge.

| Code | Pack | Price |
|---------|------|--------|
| LOG6076 | Each | £45.28 |

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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: $\pm 1\%$

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 |
|---------|------|--------|
| LOG6078 | Each | £52.00 |

5. Signal Adapter, 100mV

A compact signal adapter with built in amplifier and BNC socket termination. It allows the connection of sensors and equipment with a ± 100 mV DC output range.

- Range: -100 to +100 mvolts DC
- Resolution: 0.1 mvolt (100 microvolt)
- Nominal accuracy: $\pm 2\%$
- Input impedance: 100k Ω

| Code | Pack | Price |
|---------|------|--------|
| LOG6080 | Each | £48.20 |