

## 1. Linear Accelerometer

The linear accelerometer is a small robust sensor for measuring acceleration, including acceleration due to gravity. It is also able to detect tilt angle (relative to vertical), making it a useful general purpose tilt sensor.

- Range: -50 to +50m/s<sup>2</sup>
- Resolution: 0.1m/s<sup>2</sup>

Applications: acceleration due to gravity, measuring acceleration in dynamics experiments, impact and collision experiments, measuring tilt and angle, investigating the quality of lifts, comparing transport mechanisms for delicate objects.

Code	Pack	Price
LOG6086	Each	£114.96

## 2. Force Sensor

A versatile and compact sensor for measuring force in newtons.

- Range: 0 to 3N and 0 to 30N
- Nominal accuracy: ±3%

Applications: impacts, mass measurements, Newton's laws.

Code	Pack	Price
LOG6088	Each	£146.74

## 3. Light Gate Vision

Self contained LED light gate (70mm gap), designed primarily for timing the movement of objects. When used with software, the light gate becomes a very powerful teaching tool as acceleration, kinetic energy, speed and time of objects can be studied.

- High intensity visible beam which students can actually see and understand
- Versatile positioning using stand, rod (supplied) or standard tripod camera thread
- Gate indicator to assist setup and ensure reliable results
- Can be used in full class lighting or outside in moderate sunlight
- Super fast – current and future software compatible
- Scale: light gate 0 to 200Hz (resolution 1Hz)
- Scale: counting, 0 to 200 counts per second
- Scale: rate, 0 to 250/min (resolution 1Hz)

Applications: measurement of time interval, speed, velocity, acceleration, momentum, kinetic energy, simple harmonic motion, period counting. Also study of propeller design (as a tach), pendulum timing. Use of a mains power supply is recommended.

Code	Pack	Price
LOG6090	2	£104.94
LOG6092	Each	£55.66

## 4. Pressure Mat Set

A pair of mats which when stepped on will trigger a timing event. Used in pairs they are ideal for measuring walking/running speed or with the use of a protective piece of carpet/cardboard, bike speed.

Applications: measurement of time interval, speed, velocity, acceleration, momentum and kinetic energy. Answers questions like who is the fastest pupil at walking/cycling? etc.

Code	Pack	Price
LOG6094	Each	£43.77

1 LogIT<sup>world</sup>



2 LogIT<sup>world</sup>



3 LogIT<sup>world</sup>



4 LogIT<sup>world</sup>

