

1 DATA HARVEST 5 YEARS



## 1. Accelerometer

The accelerometer is an electromechanical device that will measure acceleration forces. These forces may be static, like the constant force of gravity pulling at your feet, or dynamic – caused by moving or vibrating the accelerometer.

There are 2 accelerometer sensors, one recording accelerations to a maximum of 10g and one recording accelerations to a maximum of 40g.

The lower range sensor can record acceleration in one of 3 axis or the resultant force of the 3 axis. It will also measure vibration forces and angle. The higher range sensor is restricted to 2 axis and resultant forces of both axis. Both sensors will show the acceleration as multiples of g or as ms<sup>-2</sup>.

Code	Description	Measuring Range	Pack	Price
LOG3183	Accelerometer Low g 3-Axis xyz	±2.5g & ±10g / ±25ms <sup>-2</sup> & ±100ms <sup>-2</sup>	Each	£105.00
LOG3180	Accelerometer High g 2-Axis xy	±40g / ±400ms <sup>-2</sup>	Pack	£105.00

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## 2. Breathing Rate Belt Pack

The breathing rate belt and pressure sensor pack combines a ±10kPa differential gas pressure sensor and a breathing rate belt to measure the expansion and contraction of a person's chest while they breathe.

The breathing rate belt is wrapped around a person's chest region. Fitted inside the belt is an inflatable air bladder, which is moulded to two rubber tubes. One of these tubes has a hand pump bulb that is used to inflate the air bladder.

The other tube is attached to the gas pressure sensor which monitors the change in pressure during breathing.

Code	Description	Pack	Price
LOG3195	Breathing rate belt & gas pressure sensor pack	Each	£117.00
LOG3462	Breathing rate belt	Each	£49.00
LOG3096	Gas pressure sensor	Each	£90.00

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## 3. Colorimeter and Turbidity Sensor

This colorimeter is an excellent unit for introducing students to enzyme dynamics, quantitative, and kinetic chemistry. The turbidity facility is user-friendly, yet intuitive, for investigating sample purity, environmental quality assurance, and chemical reaction involving solution deposition.

Ranges:

- 0 to 110% transmittance, 0 to 2.5 absorbance
- Resolution (colorimeter) 0.1% transmittance, 0.001 absorbance
- Resolution (turbidity meter) 2% in 500 NTU, full range

Supplied with: 1 x wireless colorimeter and turbidity sensor, 1 x USB connecting lead, 1 x large adaptor (23mm), 1 x medium adaptor (16mm), 1 x small adaptor (12mm), 5 x cuvette (with cap), 1 x light seal cap.

Code	Description	Pack	Price
LOG3206	Colorimeter turbidity sensor	Each	£186.00
LOG3504	Cuvettes 10x10mm optically clear 4.5mL	100	£25.00