

## Product Information Sheet

### Heart Rate Sensor



Our range of science experiment kits will equip you with all you need to carry out each of the practical experiments included in your LJ Create science program.

The kits can be used for teacher demonstration, individual student, or group activities.

The Data Logging equipment has been produced for ease of use in a wide range of science and technology applications.

This data logging sensor has been designed for performing experiments that require heart rates and pulses to be recorded and stored for analysis.

The sensor can be used in a range of teaching applications, including:

- Pulse and heart beat
- Recovery times
- Effect of exercise on heart rate
- Baroreception – change in rate due to standing, sitting and lying
- Heart rate from wave data

#### Sensor Specifications:

- Heart Rate: 0-200 Beats Per Minute (Resolution 1bpm)
- Pulse Waveform: +/- 2000mV (Resolution 1 mV)

#### Examples of some extension and advanced ideas include:

- Combine with ECG and stethoscope to study whole heart cycle
- Look for Dichrotic notch
- Time between beats
- Measure pulse changes with exercise over time

#### Items Included:

- Heart Rate Sensor

#### Other Items Required:

- Data logger (520-01)
- LJ Create Science Content and Computer

#### General Information:

Packed Volume: Approx. 0.0001 m<sup>3</sup>  
Packed Weight: Approx. 0.1 kg

**Order Code: 520-03**

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