

## Product Information Sheet

### Colorimeter



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.

A simple, effective, recording colorimeter capable of monitoring changes in transmission or absorbance over time.

Ideal for teaching the characteristics of enzyme kinetics and chemical rates of reaction.

- Colour filters are supplied as 35 mm slides, simple to add more filter colours.
- Red (630nm), green (560nm), amber (600nm) and blue (470nm) filters supplied.
- Uses standard 4 ml capacity square cuvettes.
- 5 cuvettes and lids supplied (optical polystyrene).
- LED light technology minimises drift.
- Single calibration / zero control.

Uses a white LED, standard cuvettes and coloured slides (4 supplied) as filters. Use the meters function of Easysense it becomes a standard reading display colorimeter.

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

- Reaction kinetics
- Reaction kinetics of enzyme systems
- Rate of reaction with Thiosulphate and acid catalyst

#### Sensor Specifications:

- Absorbance: 0.0500 to 1.0500
- Transmittance: 0-110%

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

- Beer Lamberts law (light absorbance vs. concentration)
- Population growth of micro-organisms
- Estimation of unknowns e.g. glucose concentration, manganese in paper clips

#### Items Included:

- Colorimeter

#### 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. 0.01 kg

**Order Code: 520-10**

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For more information visit [www.ljcreate.com](http://www.ljcreate.com)