

Product Information Sheet

Magnetic Field 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.

Explore the nature and strengths of magnetic fields of solenoids and permanent magnets with this robust sensor which houses two switchable Hall Effect transducers to measure accurately both Radial and Axial magnetic fields.

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

- Magnetic field in a coil
- Magnetic field in a Slinky Spring
- Magnetic field of magnets
- Magnetic field of a solenoid
- Variation of field vs. current

Sensor Specifications:

- Range 1: $\pm 10\text{mT}$ radial
- Range 2: $\pm 10\text{mT}$ axial
- Resolution: 0.01mT

Examples of some extension and advanced ideas include:

- Mapping a magnetic field
- Exploring electromagnets
- Detecting the earth's magnetic field
- Magnetic flux vs. induced voltage
- Transformers
- Inductance and phase

Items Included:

- Magnetic Field Sensor

Other Items Required:

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

General Information:

Packed Volume: Approx. 0.0001 m^3

Packed Weight: Approx. 0.1 kg

Order Code: 520-06

P8760-A

For more information visit www.ljcreate.com