Magnetic Field Sensor

PS-2112

Sensor Specifications

Sensor Range:	±1,000 gauss
Accuracy:	± 3 gauss @ 25°C (after 4 min warmup)
Resolution:	0.01 % of full scale
Max Sample Rate:	20 sps
Default Sample Rate:	10 sps
Operating Temperature:	0–40°C
Relative Humidity Range:	5–95%, non-condensing

Magnetic Field Quick Start

The PS-2112 Magnetic Field Sensor measures magnetic field flux density in gauss or militesla.

Additional Equipment Needed

- PASPORT Link Device (USB Link, **Xplorer**, etc.)
- EZscreen or DataStudio™ software (version 1.5 or later)

Equipment Setup

1. Connect the PASPORT Link Device to a USB port on your computer or USB hub.
2. Connect the sensor to a PASPORT Link Device.
3. The software launches when it detects a PASPORT sensor. From the PASPORTAL screen, select a point of entry:
   - an activity in the Workbook window,
   - EZscreen, or
   - DataStudio.

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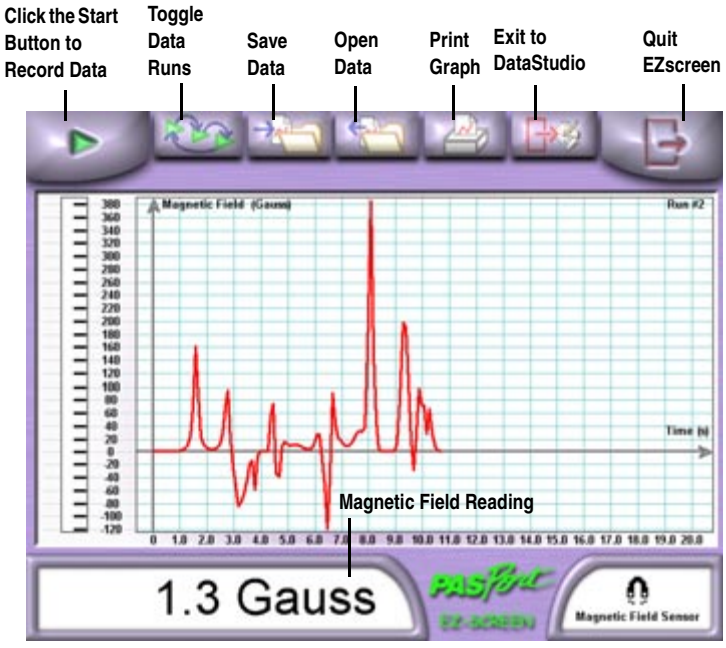


EZscreen Specifications

EZscreen Range:	-1,000 to + 1,000 gauss
Recording Time:	up to 2 hours
Scale-to-Fit:	Double-click the Graph to scale data
Information Tool:	Displays X,Y coordinate and slope for a point on graph
Export to DataStudio:	Click **Exit to DataStudio** button

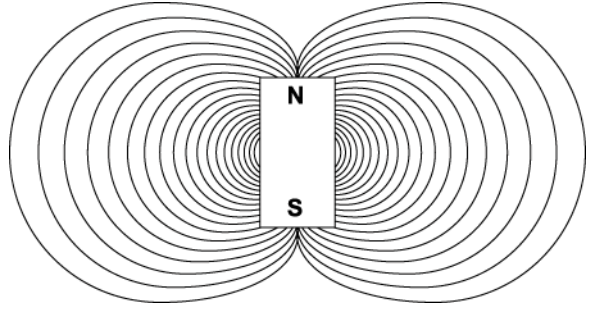
Magnetic Field EZscreen

EZscreen Activity

1. To make a spot measurements of Magnetic Fields in your classroom, click **EZscreen** in the PASPORTAL window.
2. Click the **Start** button to record data.

DataStudio Activity

Using DataStudio, the Magnetic Field Sensor can be used to map the flux field produced by a magnet.



Magnetic Flux Field