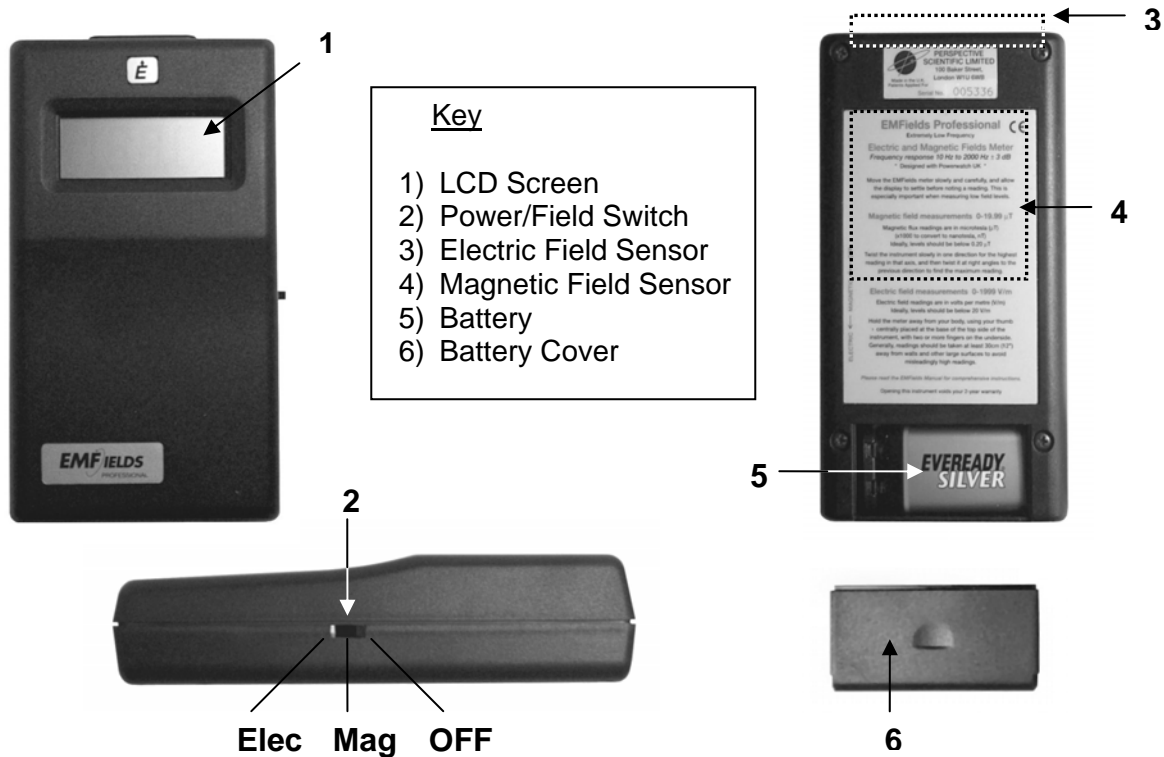


# Information Sheet for 'EMFields PRO Meter'

## Diagram:



## Instructions for Use:

- 1) Check battery is correctly inserted
- 2) Choose what you want to measure: magnetic fields or electric fields. Slide switch to appropriate position – middle switch position for magnetic fields, bottom switch position for electric fields.
- 3) Hold in one hand about 1 foot away from your body with the LCD screen upwards. Place your thumb centrally on the bottom front of the meter, with at least two fingers behind the bottom back. Do not put your fingers so high up the back that you cover part of sensor area 4.
- 4) Move the meter around slowly and carefully. After moving the meter, wait for the reading to settle to take an accurate reading.
- 5) Measuring **magnetic fields**: Twist the instrument slowly in one direction to find the highest reading on that axis. Then turn at right angles to that direction to find the highest reading. Then twist slowly in all directions to find the overall maximum. In many houses the maximum will often be with the meter held in an approximately horizontal position.
- 6) Measuring **electric fields**: Readings should be taken at least 15cm (6") away from walls. The readings are likely to increase near walls and ceilings due to house wiring circuits.

## Usage Notes:

- The meter is calibrated to read electric fields accurately when it is being held. The readings will be inaccurate if you take readings when the meter is put down on a surface.
- The meter does **not** measure DC fields. (e.g. the earth's magnetic field.)

- Electric field readings near radiators (particularly upstairs) may show as being unusually high. This is **not** a problem with your plumbing/radiators. It is instead because your body is acting as a conductor between the 230v wiring and the earthed radiator. To measure the fields as they are naturally, stand on something insulated (such as a plastic box/stool).

### **Troubleshooting:**

<b>Problem</b>	<b>Possible Solutions</b>
The instrument isn't showing any reading.	<ul style="list-style-type: none"> <li>• Check that the switch is not in the 'off' position.</li> <li>• Check that the battery is correctly inserted into the instrument.</li> <li>• The battery may be flat. Try changing it.</li> </ul>
The instrument is not picking up signals very well or does not seem sensitive enough	<ul style="list-style-type: none"> <li>• Try rotating the instrument, some fields are very dependent on orientation.</li> <li>• In the case of magnetic fields from powerlines, the line may be temporarily closed down for repairs. It may still give off an electric field reading</li> </ul>
The instrument is giving varying readings	<ul style="list-style-type: none"> <li>• The source may be varying</li> <li>• Changing the distance to a wall or source will significantly alter the electric field reading.</li> <li>• Make sure you leave time for the reading to settle after moving the meter</li> </ul>
The display is showing a "batt" symbol	<ul style="list-style-type: none"> <li>• The battery is low and will need replacing soon.</li> </ul>

### **Technical Specifications:**

Frequency response range: 7Hz to 2000Hz +/-3dB (*The -3dB points are about 8Hz & 1.5kHz, 6dB per octave roll off.*)

Magnetic Field display range: 0 - 19.99  $\mu$ T (microtesla)

Electric Field display range: 0 - 1999 V/m (volts/metre)

Resolution: 1 volt per metre [electric field] and 0.01 microtesla [magnetic field]

Accuracy:  $\pm$ 2% overall,  $\pm$ 3 digits at 50/60 Hz

Power Draw: 6mA

Battery Life: 80 Hours continuous

Power Source: 9v PP3

Size: 145mm x 80mm x 37mm (LxWxH)

Weight: 230 grams

### **Guarantee**

The EMFields PRO comes with a 2 year RTB (return to base) Manufacturer's Guarantee, subject to arrangement. Please contact us for details. It is guaranteed to be free of manufacturing defects, but not against wear from normal use.



The Waste Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) requires that old and unwanted electronic equipment must be disposed of using appropriate recycling and not placed in your dustbin or with your normal domestic waste. When you no longer require your electronic instrument, you can return it to us for recycling. Your postage will be refunded. Some UK local waste recycling centres will also provide collection points for electronic instrument recycling under the WEEE regulations.