

## Basic evaluation kit

The XEN-1210 basic evaluation kit enables the user to quickly become familiar with the performance of the XEN-1210 device.

The XEN-1210 basic evaluation kit consists of:

- USB-bus interface board
- 3D compass demo board
- micro connection cable
- USB cable
- evaluation software.

There are two extra demo boards:

- “Position” sensor demo board
- Electrical “Current” sensing demo board.

After assembly of the hardware and installing the delivered software it is ready to use. Software and drivers can be found on [www.xensor.nl](http://www.xensor.nl). It is recommended to install the software on modern PCs, since the software has to perform a lot of real time data I/O and calculations.

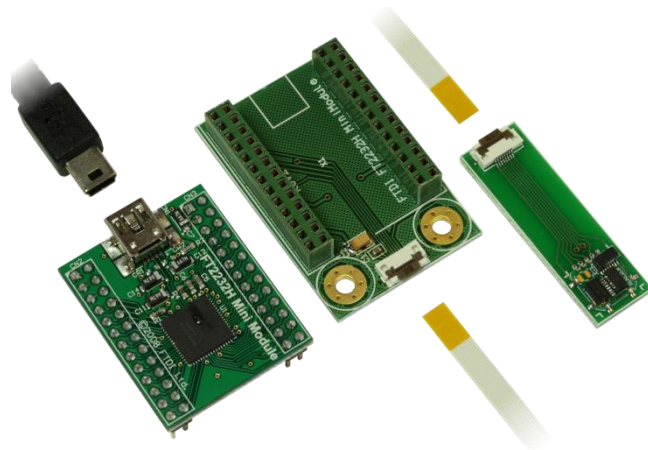


Figure 1 The basic evaluation kit hardware consists of a USB mini connection cable, a USB interface board, a 3D compass board and a micro connection cable.

A compass demo shows the real time performance with different power consumption and digital filter settings. Also a compass calibration routine can be tried out.



Figure 2 The delivered software of the basic evaluation kit, with the compass demo enabled.

## Extra demo boards

Two extra demo boards can be ordered to use with the basic evaluation kit.

The first one is a rotational position and speed board. It consists of a central rotating magnet, with a single pole pair and eight XEN-1210 sensors. The sensors are placed in different configurations in order to read out the sine and cosine signals of the rotating magnet.

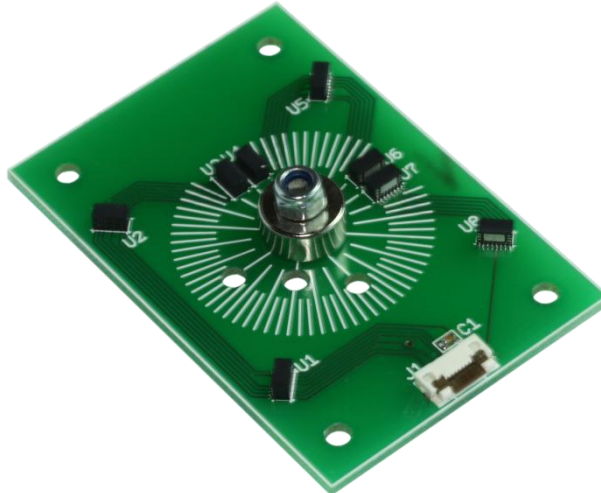


Figure 3 The extra "Position" demo board.

The second one is a current measurement demo board. The magnetic field generated by the current in a single wire is measured by two XEN-1210 sensors. The demo board shows that currents as low as 1mA can be measured, while the maximum current is determined by the wires capacity.

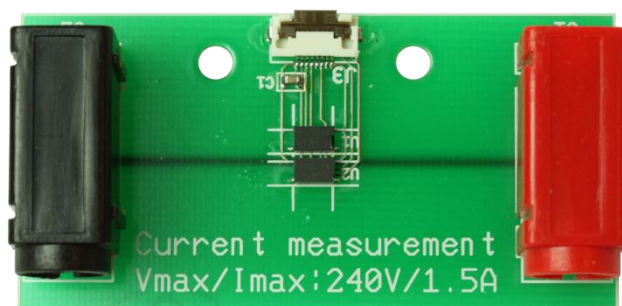


Figure 4 The extra "Current" demo board.

The software also contains two modes in which magnetic signals can be analyzed in detail. These can be selected in the demo selection window.

The first mode is a magnetic scope which displays the real time signal of the first sensor of any demo board.

The second mode is a noise and frequency analyzer. It shows an FFT of the signal, an Allan plot and a running average of the magnetic signal of the first sensor.

## General Information

### Product Status

The product is in production.

### Right to make changes

Xensor Integration reserves the right to make changes to improve reliability, function or design of the devices. Xensor Integration assumes no responsibility or liability for the use of this product.

### Application Information

Applications that are described herein are for illustrative purposes only. Xensor Integration makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

### Life critical applications

These products are not qualified for use in life support applications, aeronautical applications or devices or systems where malfunction of these products can reasonably be expected to result in personal injury

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