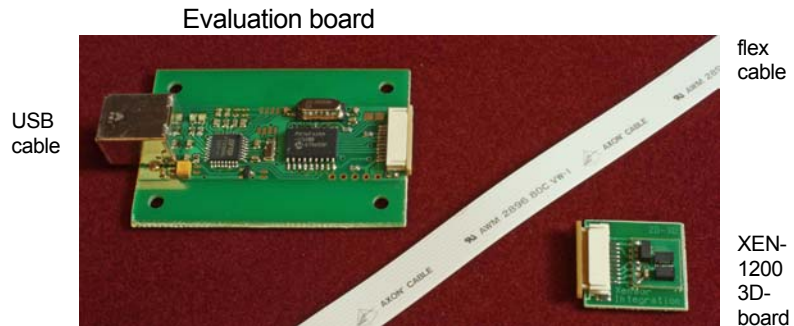


# Earth Magnetic Field Sensor

# XEN-1200

## Features

- USB data connection
- USB power supply
- Adjustable sampling rate
- PC evaluation software
- Data logging capability
- Evaluation board
- XEN-1200 board



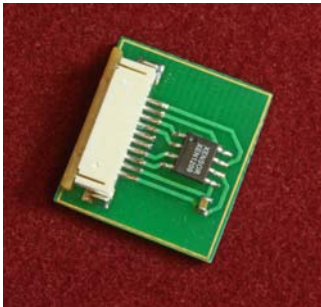
## XEN-1200 Evaluation Kit

Xensor provides an evaluation kit to help designers understand and evaluate the Earth Magnetic Field Sensor XEN-1200 in a 1D application, without the need to design hardware and software. The *evaluation board* contains a PIC16F628 micro-controller and FT232BM USB controller. The *XEN-1200 board* contains a single XEN-1200 sensor without any external components. The communication between the PIC and sensor is in SPI serial bus format. The evaluation board is connected to the USB bus of your computer.

The Evaluation Kit includes:

- 1D board.
- 3D board.
- 10x XEN-1200 in SFN8 package.
- 10x XEN-1200 in SO-8 package.
- Evaluation board.
- PC Evaluation Software.

## 1D and 3D XEN-1200 board



1D XEN-1200 board



3D XEN-1200 board

## PC Evaluation Software

The PC evaluation software for the evaluation kit (with data logging facility for later data analysis) can be downloaded from the Xensor website (<http://www.xensor.nl/txtfiles/hfdfiles/software.htm>). In the evaluation software (see last page) you will find:

- a command box.
- a COM port button.
- a ADC-resolution button
- a save button.
- an exit evaluation button.
- three running charts.

## Xensor Integration bv

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The Netherlands

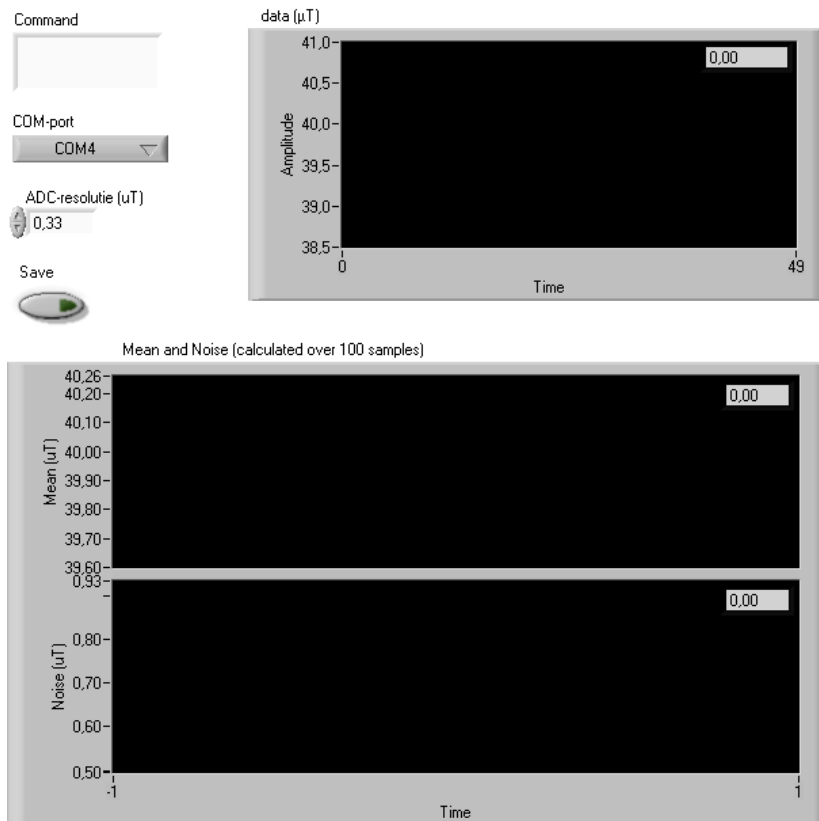
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Founded 18 May 1988  
Trade reg. 27227437  
Site [www.xensor.nl](http://www.xensor.nl)

## Smart Sensor Devices

ABN-AMRO 60 50 40 311  
IBAN NL42ABNA0605040311  
VAT NL 009122746 B01

## Evaluation software



## Installation of evaluation hardware, evaluation software and USB drivers

### Step 1

Assemble the *evaluation hardware*:

- Put the *flex cable* to the *evaluation board* and to the *XEN-1200 board*.
- Put the *USB cable* to the USB connector on the *evaluation board*.

### Step 2

Installation *evaluation software*:

- Download the PC evaluation software from the Xensor website (<http://www.xensor.nl/txtfiles/hfdfiles/software.htm>), unpack by winzip and start *setup.exe*.
- Follow instructions.

### Step 3

Installation *USB drivers*:

- Connect the *USB cable* from the evaluation board with *to the PC*.  
The USB bus will now detect new hardware and needs a FTDI driver which is on the Xensor website (<http://www.xensor.nl/txtfiles/hfdfiles/software.htm>: VCP).
- VCP drivers are so called Virtual Com Port drivers which translate USB into a format used in the evaluation software.
- At installation a COM port number is automatically selected to the first available one in your computer, usually COM3 or 4. It is important that the virtual COM port number of the evaluation software is equal to that of the VCP driver, if not it has to be manually adjusted, either in

# Earth Magnetic Field Sensor

XEN-1200

the evaluation software (COM port button) or in the VCP driver (see installing-USBdrivers-windows.pdf on your CD)

## Step 4

Start the evaluation software:

- select and double click *XEN-1200-evaluation.exe* in your start menu under XEN-1200-evaluation.
- Do the tests you want.

## Step 5

Feed back:

- This product is in continuous development so we appreciate your feedback, comments and further technical questions to help you evaluate the sensor for your system and improve the sensors performance in future versions.

Conditions: Use of sensors for industrial applications is subjected to patent rights. Xensor Integration assumes no liability arising from violation of these rights

Warranty: Xensor Integration warrants its products against defects in materials and workmanship for 12 months from date of shipment. Products not subject to misuse will be replaced or repaired. The foregoing is in lieu of all other expressed or implied warranties. Xensor Integration reserves the right to make changes to any product herein and assumes no liability arising out of the application or use of any product or circuit described or referenced herein.

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