



April 2016

[SENIS AG](#) provides magnetometers, mappers, current sensors and corresponding services.



Welcome to

and

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SENIS at Industrial Exhibitions 2016

We are pleased to invite you to visit us at our booth at the following exhibitions and conferences:



SENIS booth No. 1.1 / C58

SENIS CEO, Sasa Spasic with our application team will present the following products:

- High-end Magnetic Field Mapper with 3-axis Hall probe and eddy-current probe for crack detection
- Analog Transducers and Digital Teslameters/Gaussmeters for high-accuracy measurements of all three components of the magnetic field
- Integrated 3-axis Hall probes with very high spatial resolution and various probe

packages for small air gaps and high temperature ranges in industrial and laboratory applications

- Clamp-on current transducers and bus bar current sensors with high accuracy and high dynamic range.
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SENIS booth 12-356, Hall 12

SENIS COO, Dr. Dragana Popovic-Renella with our application team will present the following products:

- New portable Magnetic Field Mapper with 3-axis Hall probe
 - Analog Transducers and Digital Teslameters/Gaussmeters for high-accuracy measurements of all three components of the magnetic field
 - Integrated 3-axis Hall probes with very high spatial resolution and various probe packages for small air gaps and high temperature ranges in industrial and laboratory applications
 - Clamp-on current transducers and bus bar current sensors with high accuracy and high dynamic range.
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[MMT Tech Days 2016](#)

June 8/9 2016
Besancon, France

SENIS CEO Sasa Spasic will participate at the conference.

[IMEKO 2016 \(International Magnetic Measurement Confederation\)](#)

September 7-9, 2016
Budapest, Hungary

Dr. Dragana Popovic Renella applied for the presentation: Testing Permanent Magnets for Industrial Applications

[Coiltech 2016](#)

September 28/29 2016

Pordenone, Italy

Technical Presentation by Dr. Dragana Popovic Renella: Quality control of permanent magnets by integrating magnetic field mapping and crack detection

Visit our web site for all conferences and exhibitions with SENIS participation: [CLICK HERE](#)

SENIS Magnetic Field Mapper System - New Smart Interchangeable probes and New Portable Mapper System

SENIS' High-end All-in-One Magnetic Field Mapping System MMS-1A-RS allows for high-speed mapping of the magnetic field around permanent magnets and electromagnets. It also detects cracks and inhomogeneity in magnetic and non-magnetic materials. The new solution integrates an easy and smart interchangeability of different measurement probes in the mapper. A fully integrated 3-axis Hall probe measures simultaneously all three components of the magnetic field with very high spatial resolution and in very small air gaps, providing even in-contact measurements. The map of the magnetic field may be given in various forms, including the color coded 2D or 3D graphs, allowing various measured data analysis. The system is controlled by user friendly software. See more on [SENIS website](#).



SENIS recently developed a **portable version of the 3D magnetic field mapper** with smaller and lighter Cartesian moving platform and with the mapper software that runs on a tablet. This mapper will be presented at the exhibition [Sensor+Test in Nuremberg](#).

SENIS Teslameter/Gaussmeter Series - New 3D Handheld Teslameter

SENIS' established Low Noise Teslameters with integrated 3-axis Hall probes are applied in some of the major research and industrial laboratories worldwide. SENIS Hall-based Teslameter for laboratory applications has an extraordinary resolution of only 2 ppm and an accuracy of better than 0.005%. Our Teslameter solutions provide the possibility of automatic data acquisition via an USB serial interface.



New: SENIS will present [at CWIEME](#) and [at Sensor+Test](#) the recently developed **Handheld 3-axis Teslameter** with great performances and very attractive price range. This Teslameter will allow for probe versatility, 3-axis Hall probe for very high magnetic field range, 3D flux gate and AMR-probe.

SENIS provides a wide range of Digital Teslameters for magnetic field measurement applications:

- Permanent and electromagnet field mapping and monitoring.
- Active magnet field control.
- High field magnetic levitation/isolation development, such as in supermagnets and MRI devices.
- Nano-Teslameter with very high spatial resolution 3-axis AMR probe for zero field mapping.
- Teslameter with miniature Eddy-current probes for defect detection in permanent magnet.

SENIS Bus Bar Current Sensors BBM-02

An important application of magnetic field measurement technology is the electric current measurement around current conductors. SENIS high performance Bus Bar Current Sensors are composed of two magnetic field sensors mounted at each side of the current bus bar providing high immunity to the external magnetic field. This current sensor enables the measurement and monitoring of electric currents upto several tens of kAmps and within the f-bandwidth of DC to 100kHz.



Applications of the bus bar current sensor include motor & generator control, fluctuating DC to AC power conversion from wind and other turbines and motor drives, monitoring of electromechanical systems, battery charging, photovoltaic and battery farms, transit & off road vehicles, etc.

SENIS Clamp-On Closed-Loop and Open-Loop Current Transducers

The **Clamp-On Closed-Loop Current Transducers** allow the measurement of DC, AC and pulsed currents, with galvanic isolation between the primary circuit and the secondary circuit. SENIS Closed-Loop Current Transducers measure electric currents in the range of 100A to 10kA within the f-bandwidth of DC to 100kHz and with the **unique superior total accuracy of better than 0.1%**.



Applications of Clamp-On Transducers include the high sensitivity AC and DC current leakage or loss detection and current measurement in motor & generator control, fluctuating DC to AC power conversion from wind and other turbines and motor drives, photovoltaic and battery farms, transit & off road vehicles, etc.

SENIS MicroAmmeter is a **Clamp-On Open-Loop DC Current Transducer** with an extraordinary measurement resolution of $\pm 1\mu\text{A}$. SENIS Insulation Defect Locator utilizes two high sensitivity Clamp-On MicorAmmeters to indirectly measure and track the direct current through a fault in the insulation system of electrical machines.

Imprint

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