



**SENIS NEWSLETTER March 2013**

**SENIS AG** provides Magnetic Field Measurement Instruments, Current Sensors and corresponding Services:

- Broad range of [Analog Magnetic Transducers](#) and [Digital Teslameters](#) with the smallest 3-axis Hall probes, very low noise and high frequency bandwidth
- [Magnetic Field Mapping Systems](#) for testing permanent and electro-magnets
- Miniature, high sensitivity [current sensors](#)
- Clamp-on DC [MicroAmmeter](#)
- [Insulation Defect Locator](#)
- Related consultancy and [engineering services](#), such as [calibration & characterization of magnetic and current measurement instruments](#)

## **Content**

**[SENIS presented at Magnetics 2013 Conference in Orlando, USA](#)**

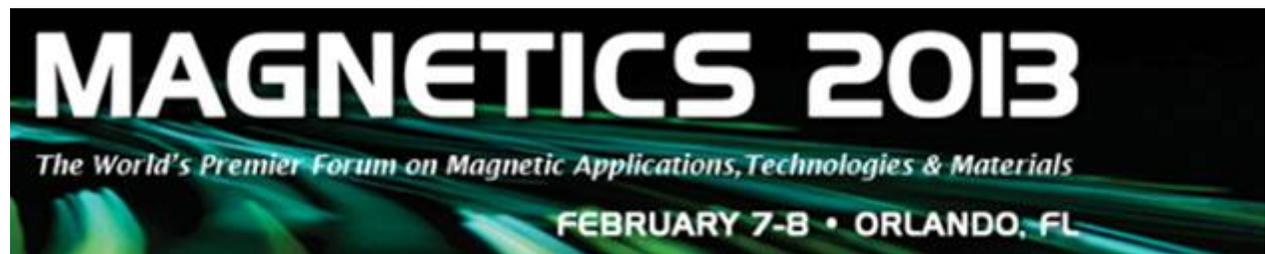
**[SENIS improves its Magnetic Field Mapping system MMS-1-RS](#)**

**[SENIS announces new Distributor for Asia](#)**

**[SENIS announces new Distributor for Russia](#)**

**[Imprint](#)**

[SENIS presented at Magnetics 2013 Conference in Orlando, USA](#)



**SENIS AG, one of the leading suppliers of advanced magnetic field measurement instruments welcomed Conference attendees at the booth of GMW Associates, its North American Distributor!**

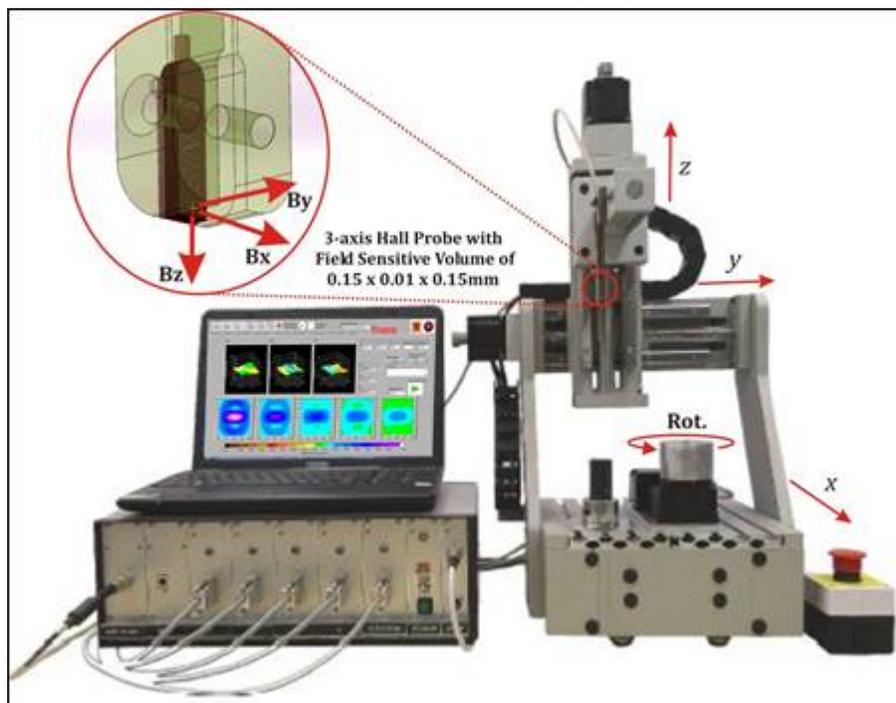
**Magnetics 2013** and **Motor & Drive Systems 2013** were co-located at the Rosen Plaza Hotel in Orlando. Attendees to either event had access to the combined exhibit hall where SENIS AG presented at the booth of its North American Distributor GMW Associates.

SENIS' CEO Sasa Spasic reported:

"Magnetics 2013 and Motor & Drive Systems with its exhibition part were also in this year a very good opportunity to demonstrate our latest enhancements of the Magnetic Field Mapper System, such as the tactile sensor or an integrated Hall Probe and Mapper calibration tool. Our new Low-Noise Teslameter with an extraordinary resolution of only 1ppm and an accuracy of approximately 0.001% attracted lots of visitor's attention. We are confident that together with our distributor and partner GMW Associates, SENIS will be able to extend its presence on the North American market."



## SENIS improves its Magnetic Field Mapping System MMS-1-RS



Magnetic Field Mapping System enables a user to quickly map the magnetic field around an electromagnet or permanent magnet. The applied integrated 3-axis Hall probe measures simultaneously all three components of the magnetic field with very high spatial resolution. An optional tactile sensor is utilized for the absolute magnet positioning. Incremental encoders allow for a very high scanning speed and very high spatial resolution. A built-in calibration tool insures a very exact position and alignment of the measuring probe, also in a strongly inhomogeneous magnetic field. The map of the magnetic field may be given in various forms, including the color coded 2D or 3D isometric visual display and the tables of the numerical values of the three components and/or the total magnetic field. The system is controlled by user friendly software: <http://www.senis.ch/magnetics/magnetic-field-mapper/overview-magnetic-field-mappers>

### **KEY FEATURES:**

- Maximal Scanning volume (X x Y x Z):
  - standard: 135 x 135 x 135 mm<sup>3</sup>
  - optional: 500 x 500 x 135 mm<sup>3</sup>
- Scanning speed:
  - standard: adjustable, up to 50 mm/s
  - optional: adjustable, up to 100 mm/s
- Incremental rotational encoder for motor control feedback
- Scanning spatial resolution: down to 5 μm (down to 1 μm with incremental encoder)
- Point-to-point and continuous (on-the-fly) scanning
- Absolute magnet positioning utilizing Touch Sensor
- Rotation stage for the magnet under test with multi-jaw scroll chuck

- 3-axis fully integrated CMOS Hall probe (Bx, By, Bz) with the spatial resolution (By: 0.03 x 0.005 x 0.03mm<sup>3</sup>; Bx and Bz: 0.15 x 0.01 x 0.15 mm<sup>3</sup>) and high angular accuracy (orthogonality error < 0.1°)
- Up to four selectable magnetic field measurement ranges
- Accuracy of magnetic field measurement: better than 0.1%
- User's calibration of probe's sensitive area and of Hall sensor orthogonality utilizing a current conducting filament tool
- DC and AC field measurements from DC to 2.5kHz (-3dB point); option: up to 25kHz for 3-axis probe and 75 kHz for 1-axis probe
- Protection cabinet for safety operation
- Easy to use software on MS Windows platform
- Color coded 2D and 3D isometric representation of the magnetic field

### SENIS announces new distributor for Asia

日本・Asia のお客様は、こちらへお問い合わせください



**SENIS** 日本・Asia 総代理店

株式会社 **アイエムエス**

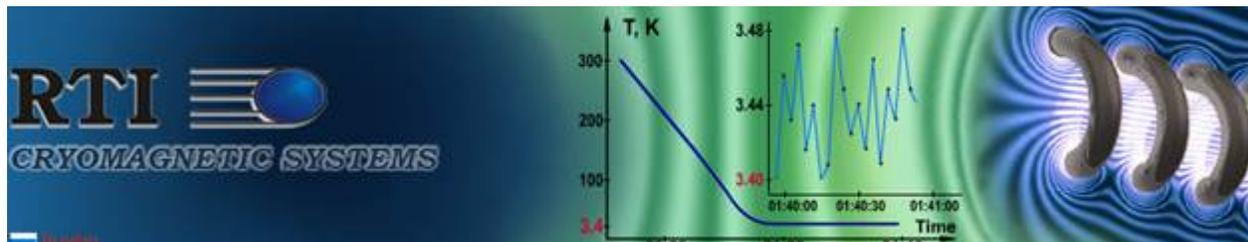
*We are specialists in magnetizing*

### **SENIS is intensifying its presence on the Asian market!**

We are very pleased and proud to announce that IMS co. Ltd, Japan became a SENIS distributor for Asia.

Since its foundation in 1992 as a company dedicated to magnetization technology, IMS has been providing top-level magnetization technologies and equipment to many manufacturers of equipment that applies magnetism, including manufacturers of motors, automobiles and home electric appliances. IMS business has been closely associated with leading-edge applied magnetic technologies, since polarizing magnets is an essential element that determines the performance of magnetic equipment.

## SENIS announces new distributor for Russia



### **SENIS is intensifying its presence on the Russian market!**

We are very pleased and proud to announce that RTI cryomagnetic systems became a SENIS distributor for Russia.

RTI cryomagnetic systems team is based on the physicists and engineers of the Russian Academy of Sciences with more than 30 years of experiences. Company covers the needs of researches in low temperature physics and is leading manufacturer of cryogenic devices on the Russian market.

## Imprint

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