Metrolab Introduces 3-Axis Hall Magnetometer

Geneva, Switzerland – February 27, 2008 – Metrolab Instruments SA has introduced an innovative 3-axis Hall magnetometer, the model THM1176, nicknamed “Magnetic Endoscope.”

The Magnetic Endoscope replaces Metrolab’s previous 3-axis Hall magnetometer, the THM7025, developed to ensure the safety of MRI (Magnetic Resonance Imaging) facilities. By measuring the total strength of the magnetic field around an MRI system, these instruments allow safety officers to identify areas where patients with metallic implants risk serious injury, where iron objects such as screwdrivers or wheelchairs become lethal projectiles, and where electronic equipment may malfunction.

Metrolab’s 3-axis Hall magnetometers simultaneously measure all three axes of the magnetic field, rather than a single axis as most magnetometers do. This ensures a correct reading of total field no matter the orientation of the probe. Metrolab's are the world’s only handheld, battery-operated 3-axis magnetometers, suitable for field use. Factory calibration with Metrolab's NMR Precision Teslameter, the gold standard for magnetometers, provides ±1% accuracy with automatic temperature compensation.

The THM1176 introduces a host of additional new features:

- Measurement ranges of up to 20T are adapted to the strong fields encountered in modern magnetics applications;
- Measurement rates of up to 2000/second permit detecting rapid field fluctuations typical of motors and power supplies;
- A point-like active volume – 3 sensors integrated on a single IC – provides accurate readings even in highly non-uniform fields;
- Spinning-current techniques minimize offset and offset drift, two bugaboos of Hall magnetometers;
- A compact, endoscope-like probe is easy to handle and gets into the smallest nooks and crannies;
- An industry-standard USB interface connects to a PDA for handheld use, or directly to a PC for laboratory use; and
- LabVIEW interface libraries allow users to easily develop custom applications.

With this new generation of Hall magnetometers, Metrolab introduces an instrument that reaches far beyond the traditional application area of MRI safety. For example, all magnetic system designers and users of strong research magnets now have a compact and easy-to-use tool to map a magnetic field.

Metrolab is the global market leader for precision teslameters, used to measure high-intensity magnetic fields to a very high degree of precision. Combining the reliability of a 20-year old industrial manufacturer with the responsiveness of a service company, Metrolab has won the trust of all leading players in Magnetic Resonance Imaging, such as General Electric, Philips and Siemens Magnet Technology, as well as all major physics laboratories such as the European centre CERN, Fermilab in the USA, and KEK in Japan. Please see www.metrolab.com for more information.

Attached: preliminary data sheet, photos, recent newsletter article

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