

CUSTOMER REFERENCE

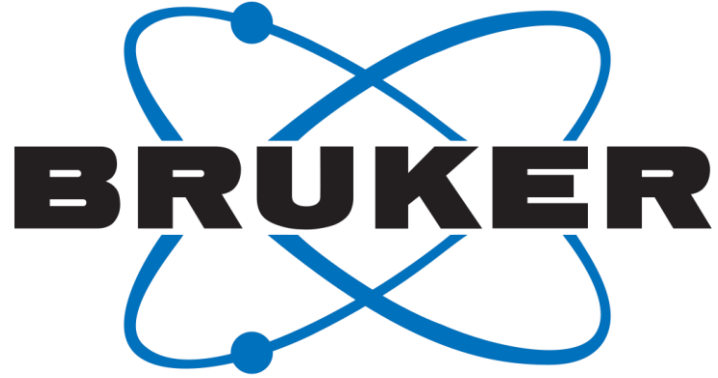
SENIS
magnetic & current measurement

SENIS AG, Switzerland develops, manufactures and supplies advanced sensors and instruments for magnetic field and electric current measurement as well as the corresponding development and engineering services. Our solutions and services help our clients in the automotive, consumer electronics, test and measurement industries, as well as to research institutes to create powerful, robust and effective products.

SENIS® 3MH5 used in Bruker Laboratories and products is a **Low-Noise Digital Teslameter** with fully integrated 2-axis Hall Probe (Bx, By) designed in the way that the resulting sensitivity vector is aligned with the direction of the magnetic field, which needs to be measured. This Digital Teslameter provides the possibility of automatic data acquisition via a serial interface by a host computer to easily integrate a measurement routine into the customer measurement system.

The Hall probe is connected with an electronic box providing biasing for the Hall probe and the application of the improved **spinning-current technique**, which very effectively cancels offset, low frequency noise and the planar Hall effect. The additional conditioning of the Hall probe output signals in the electronic box includes high linearization and compensation of temperature variations.

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Bruker BioSpin AG, Switzerland (www.bruker.com) uses the Low Noise & High Resolution Teslameter / Gaussmeter for high accuracy measurements of high magnetic fields up to 20T. The magnetic resolution of **SENIS 3MH5** is less than 2ppm and accuracy better than 100ppm.