

Transducers and Teslameters

Standard and custom-made 1 & 3-Axis Hall Transducers and Teslameters

Applications:

- Mapping Magnetic Fields
- Characterisation and Testing of Magnets
- Monitoring of Machines

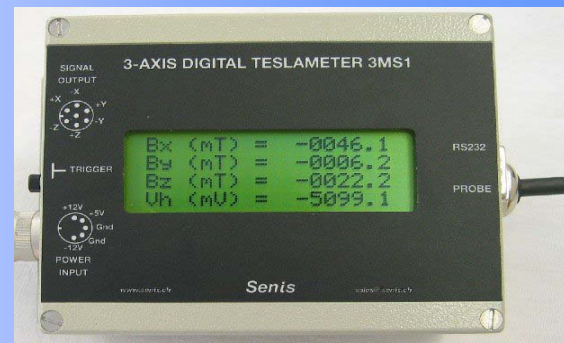


Magnetic Field Transducers

- High accuracy
- High level analog output: 1V/T, 5V/T
- High linearity 0.1%
- Frequency response up to 25kHz
- Negligible planar Hall effect

Digital Teslameter

- Digital display for all 3 axis and analog output
- Data acquisition by RS232 interface
- Easy to use software to measure, save and visualize the 3 components of the field at the same spot



Custom-Made Instruments

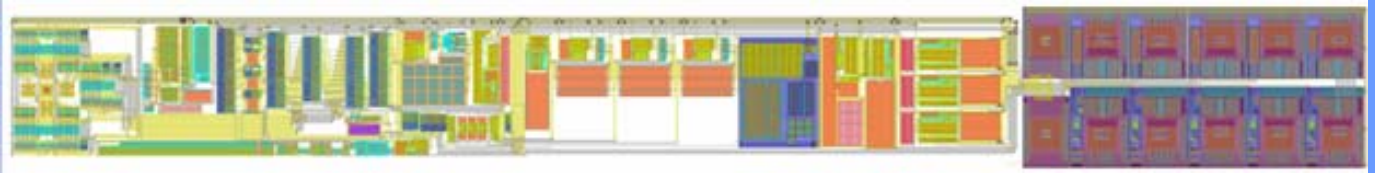
- Multi-channel transducers
- Calibrations in the range from 0.1 Tesla to 2 Tesla
- Customized 1, 2, 3-axis Hall probe geometries
- Arrays of Hall probes



Advanced Hall Transducers

based on the unique

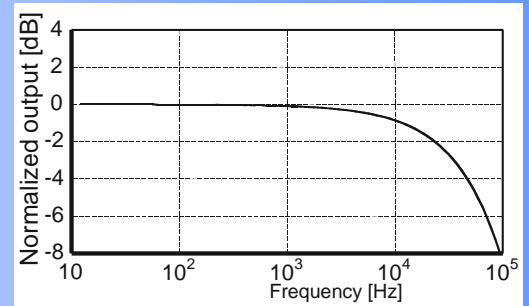
SENIS Integrated Hall Probe



- On-chip suppression of offset and $1/f$ noise
- Negligible planar Hall effect
- No parasitic inductive and capacitive coupling
- High linearity: 0.1% at 2T
- High DC field resolution: up to $5\mu\text{T}$ at 20mT
- Available ranges: 20mT, 200mT, 2T, and 20T

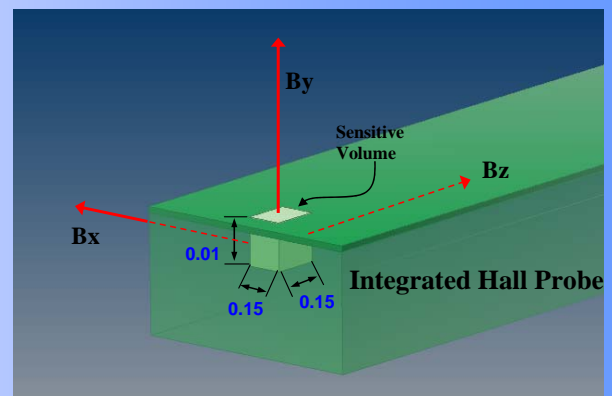
1-Axis Magnetic Field Transducers

- High-frequency response: DC to 25kHz
- High spacial resolution: 0.05mm
- Low-cost OEM versions



3-Axis Magnetic Field Transducers

- High spacial resolution: 0.15mm
- High angular accuracy: 0.1°
- No cross talk between the channels



SENIS GmbH

Hall Probes

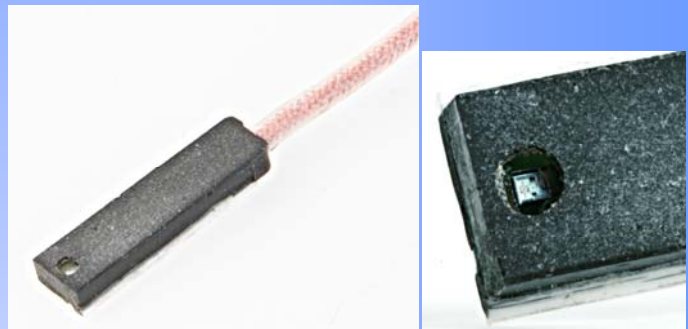
Standard probe C-H3A

- Robust
- Ceramic reference plate
- General purpose



Probe with a window

- Visible sensitive point
- High-accuracy positioning
- High-accuracy mapping of magnetic fields



Thin probe T-H3A

- World's smallest 3-axis Hall probe
- Directly accessible sensitive point
- Scanning of small magnets



Probe mounted in a probe holder

- As thin as the probe

