Fluxgate-Magnetometer FM-A & FM-D

Multi purpose Fluxgate-Sensors with USB and analog interface

The single axial Fluxgate-Sensors FM-A und FM-D are available with digital or analog interface. The digital sensors (FM-D) are calibrated and easy to use, while the analog sensors (FM-A) are the first choice for tasks where extremly high field resolutions are required. FM-A and FM-D Fluxgate-Magnetometers can be customized with very low effort to suit various applications.

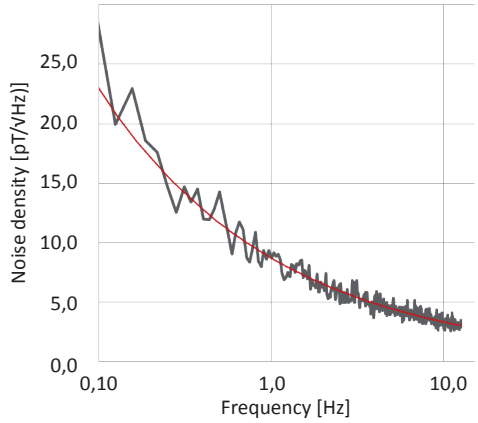
Highly sensitive measurement of magnetic fields:

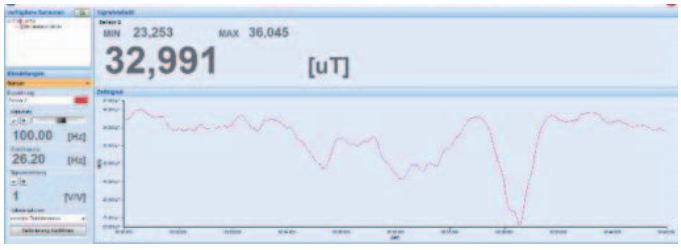
- Earth‘s magnetic field
- Urban magnetic (distortion-)fields or sources
- Biological magnetic fields
- Traffic control
- Material investigations
- Power supply line detection
- Magnetic field compensation systems
- Distance measurements

Range of function:

- Software for configuration, data recording and data interpretation
- Dll-file for integration in custom applications
- Library and demonstration program for LabView™

Characteristics of the analog Fluxgate-Magnetometer FM-A





Urban distortion fields (Measurement in z-direction within a office-building, 25 m distance to a heavily trafficked street, sampling rate = 10 Hz)

Technical features

Fluxgate-Magnetometer FM-D (digital interface):

• Range:	-100 µT ... 100 µT
• Sampling rate:	1 ... 100 Hz
• Amplification:	1, 2, 4, 8, 16, 32, 64, 128
• Noise density:	1 nT
• Digital output:	up to 24 bit
• Power supply:	max. 10 mA (USB)

Fluxgate-Magnetometer FM-A (analog interface):

• Range:	-200 µT ... 200 µT
• Analog output:	-15 V ... 15 V
• Sampling range:	500 Hz
• Noise density:	10 pT @ 1 Hz

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