

LEMI-134 Induction Magnetometers for Geophysical measurements

New calculation methodology based on a minimum mass approach leads us to minimize the weight while conserving the length necessary to provide low noise levels in a wide frequency band. The magnetic feedback design is utilized to provide a stable response over several decades of frequency. Over the flat band region the sensor operates as a B field detector; for the frequencies below the flat part the sensor response is proportional to signal frequency or to dB/dt derivative. A low noise preamplifier is placed inside the sensor.



Application Description

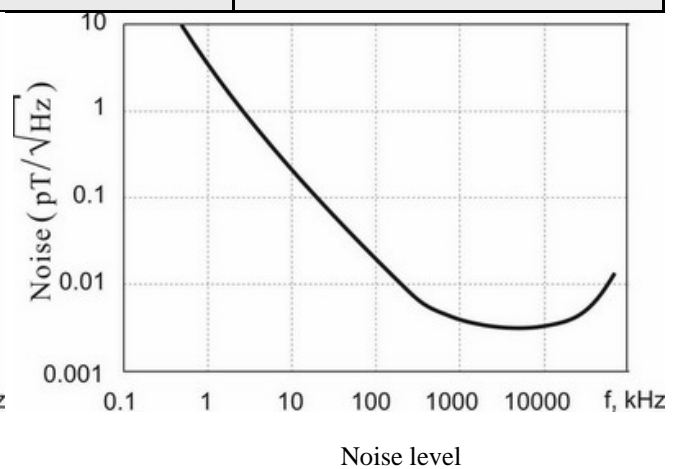
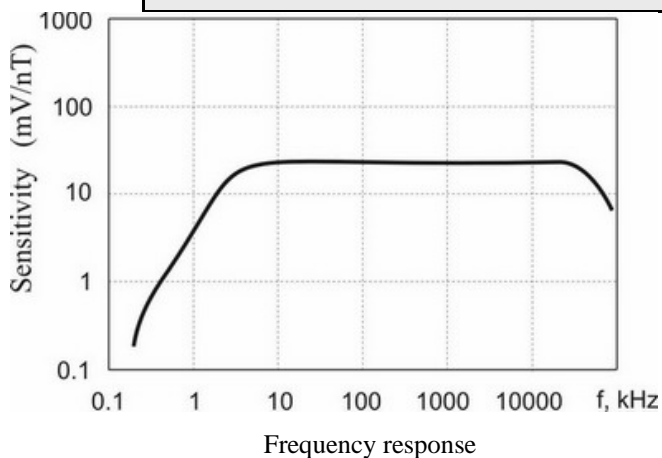
The LEMI-134 induction coil is used for active geophysical measurements like CSAMT in a wide frequency range. The band of frequencies the sensor operates in is suited for shallow applications like hydro-geophysics or mining.

Highlights

- Low noise, near the theoretically lowest possible level
- Wide operation frequency band: 0.5-50,000 Hz, (0.5—200,000 Hz on special request)
- Extremely light weight
- Small outer dimensions

Technical Specifications

Frequency range	0.5-50,000 Hz 0.5-200,000 Hz on request
Transformation factor in linear part	4 mV/nT*Hz
Transformation factor in flat part	20 mV/nT
Length	400 mm
Weight	320 g
Power consumption	300mW



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