

INDUCTION MAGNETOMETER FOR GEOPHYSICAL APPLICATIONS LEMI-121

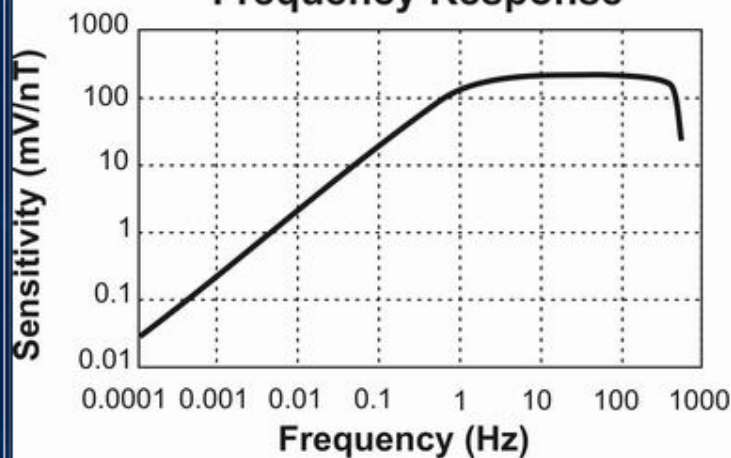
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Main features

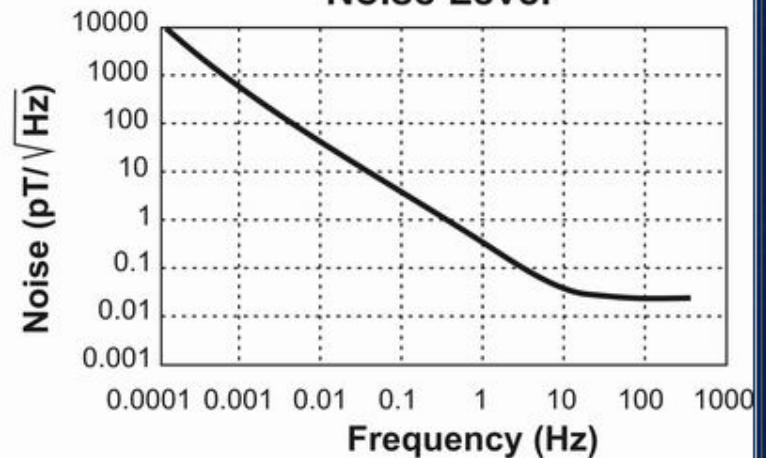
- Super-wide frequency range: 0.0001 - 500 Hz
- Very low noise
- Low power consumption



Frequency Response



Noise Level



Induction coil magnetometer LEMI-121 is intended for the study of magnetic field fluctuations in the frequency band 0.0001-500 Hz in land conditions. It can be used both autonomously with any analog registration unit and as a part of any geophysical equipment, e.g., magnetotelluric station. Extremely high sensitivity ensures excellent signal-to-noise ratio for exact measurements.

Low power consumption and wide frequency range allow long term measurements at remote sites. Strengthened rugged housing and output connector prolong sensor active lifetime and increase overall reliability.

MAIN TECHNICAL PARAMETERS

Frequency range	0.0001 – 500 Hz
Transformation factor: at frequencies 0.0001 – 1 Hz 1 – 1000 Hz	200 mV/nT f * 200 mV/nT
Noise: at 0.001 Hz at 0.1 Hz at 100 Hz	< 600 pT/sqrt(Hz) < 5 pT/sqrt(Hz) < 0.05 pT/sqrt(Hz)
Current consumption	± 14 mA
Weight	4 kg
Dimensions: diameter length	85 mm 560 mm

* – f is the frequency of the received signal