

INDUCTION MAGNETOMETER FOR SPACE APPLICATIONS - LEMI-106 I

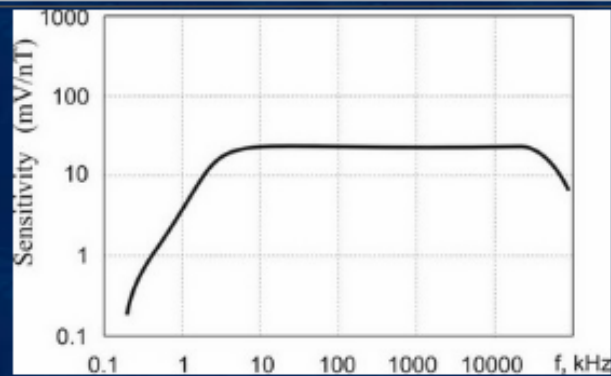
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Main features:

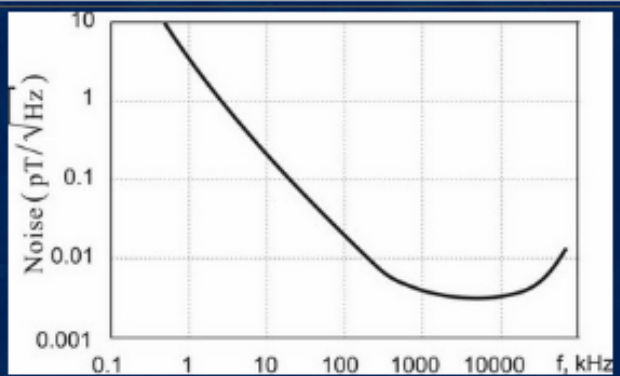
- Monoblock construction (preamplifier inside)
- High sensitivity
- Low noise, near the theoretically lowest possible level
- Super-wide operation frequency band 0.5...50000 Hz
- Metrological certification
- Low weight
- Space qualified



Frequency Response



Noise Level



New calculation methodology using minimal mass criterium allowed to minimize the weight, conserving necessary length in order to provide low noise level in wide frequency band. The magnetic feedback design is utilised what provides 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. Low noise preamplifier is placed inside the sensor.

Technical Specifications

Full frequency range	0.5...50000 Hz
Sensitivity, linear part	4 mV/nT*Hz
Sensitivity, flat part	20 mV/nT
Length	400 mm
Weight	320 g
Power consumption	300 mW