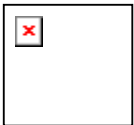


LEMI-118 magnetometer

1 – 70,000 Hz frequency range



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Product description

The LEMI-118 induction coil magnetometer is intended for the study of magnetic field fluctuation in the frequency band 1Hz to 70,000 Hz. It can be used both as a part of magnetic measuring system and autonomously with any state of the art data acquisition unit.



Figure 1: LEMI-118 induction coil magnetometer.

Product applications

The LEMI-118 induction coil is used for passive and 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:

- Wide frequency band
- Low power consumption
- Low noise

Product specifications

Frequency range	1 to 70,000 Hz
Shape of transfer function	linear—flat
Transfer function corner frequency	20 Hz
Typical transformation factors Linear section 1-20 Hz Flat section 20-70,000 Hz	f * (mV/nT) 20 mV/nT
Noise level @ 1 Hz @ 10 Hz @ 10,000 Hz @ 50,000 Hz	≤ 5.000 pT / √Hz ≤ 0.200 pT / √Hz ≤ 0.005 pT / √Hz ≤ 0.010 pT / √Hz
vMaximum output voltage	+/- 2.5 V
Power consumption @ 9 V	< 240 mW
Supply voltage	+/- (6 to 12) V
Length	850 mm
Diameter	46 mm
Weight	1.7 kg

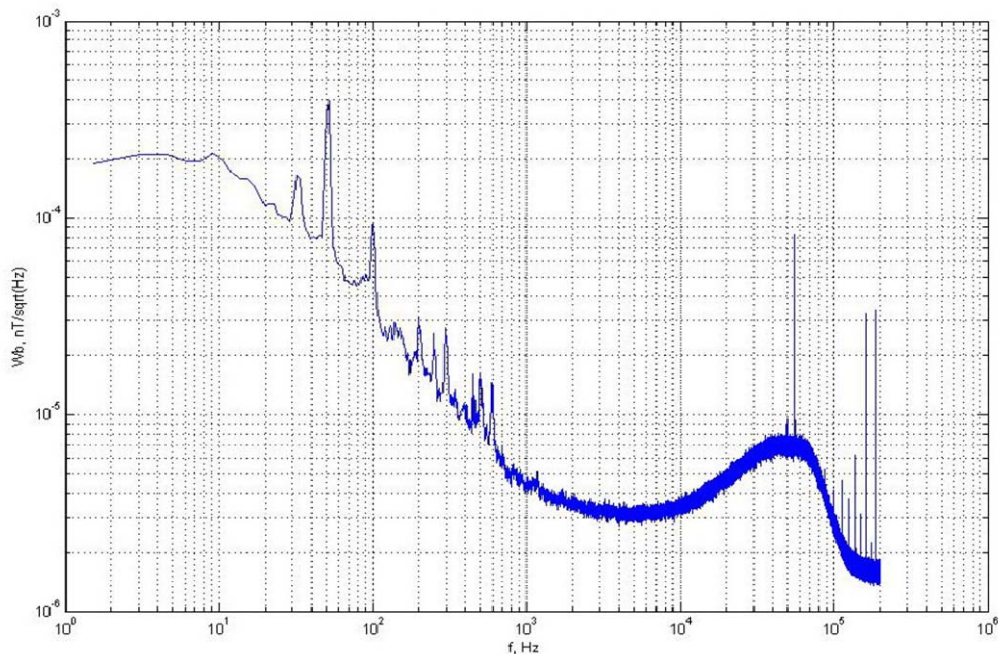


Figure 2: Typical noise spectral density.