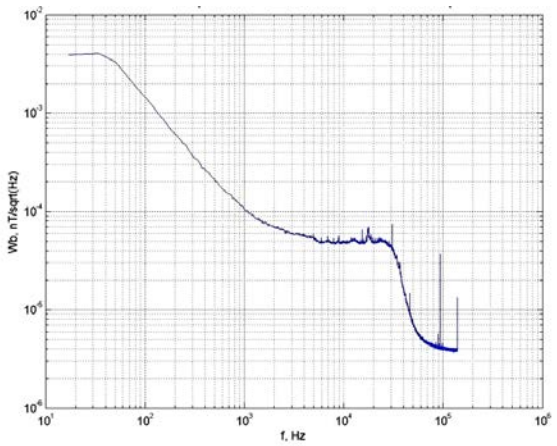
INDUCTION MAGNETOMETER LEMI-151

Main features:

- **Wide frequency and dynamic range**
- **Low noise**
- **Small dimensions**
- **Three-component structure**
- **Low power consumption**
- **Very low weight**



The LEMI-151 search-coil magnetometer is intended for measurements of 3 components of AC magnetic field vector. It is a new design specifically developed for the SEAM space mission to achieve optimal performance within the volume constraints. As the result a miniature search-coil magnetometer with best combination of parameters was created and tested. Its parameters and external view are given below.

TECHNICAL SPECIFICATION

Frequency range	**20 – 20000 Hz**
Frequency response shape	**flat**
Transformation factor:	**10 mV/nT**
Noise level:	
at 10 Hz	**15 pT/sqrt(Hz)**
at 100 Hz	**1,5 pT/sqrt(Hz)**
at 1 kHz	**0,12 pT/sqrt(Hz)**
Power consumption	**210 mW**
Supply voltage	**± 5V**
Dimensions of sensor	**38x38x38 mm**
Mass of sensor	**72 g**

5A Naukova St., Lviv, Ukraine, 79060. Lviv Centre of ISR
Tel/Fax: +38-032-2639163; E-mail: vakor@isr.lviv.ua; http://www.isr.lviv.ua