

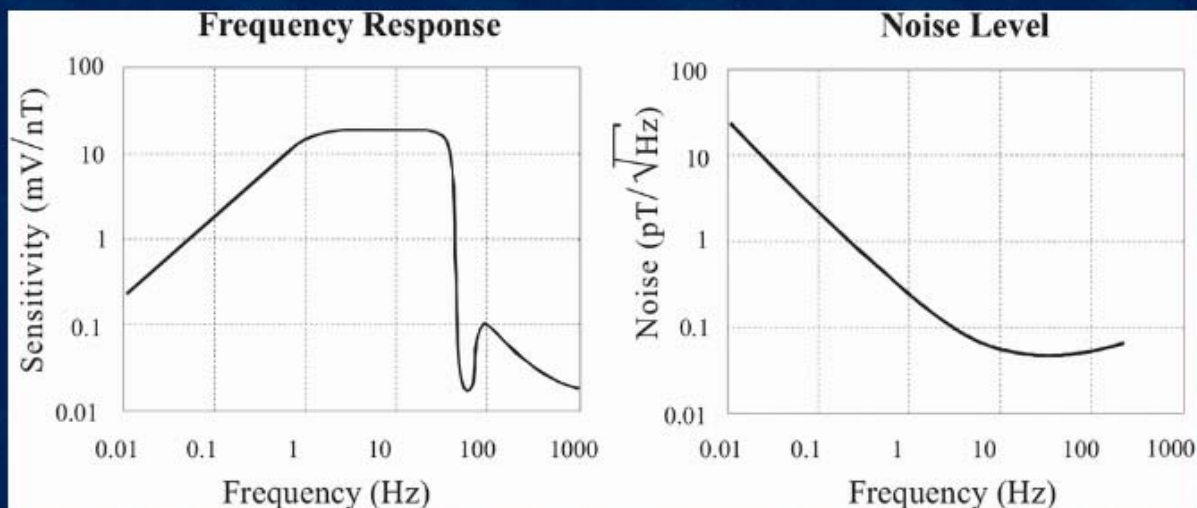
# SATELLITE SYNCHRONIZED ULF INDUCTION MAGNETOMETER SET

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The complete set of magnetometer consists of three LEMI-30 sensors and one communication unit (CAM unit), which connects the sensors to PC and provides their power supply, satellite synchronization of data sampling and digitizing.

The induction magnetometer LEMI-30 is intended for the study of magnetic field fluctuations in the frequency band 0.001 ... 30 Hz in land conditions and is ideal for ULF earthquake precursors monitoring. It can be used both as a part of the computer measuring and registration equipment and autonomously with any analogue recorder. All three LEMI 30 sensors are similar within 0,1 dB.



## Main Technical Parameters

Frequency band of received signals	0.001 ... 30 Hz
Transformation coefficient value on 2 symmetrical output: on the flat part on the linear part where $f$ is the frequency of received signal.	20 mV/nT; 200 mV/nT 20 * $f$ mV/nT; 200 * $f$ mV/nT
Transformation coefficient error	± 3 dB
Noise rejection on (50 ± 0.2) or (60 ± 0.2) Hz	>60 dB
ADC (CAM unit) resolution	24 bit
GPS sampling synchronization and coordinates determination	
Power supply voltage	± (6 ... 12) V
Total power consumption	< 3 W
Temperature range of operation	minus 10 + 50 °C
Outer dimensions	$l = 870$ mm; $d = 85$ mm
Weight of one sensor	5.6 kg
Waterproof housing	
Maximum length of connecting cable	200 m