

# INDUCTION MAGNETOMETER LEMI-118

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## Main features

- Wide frequency dynamic range
- Low noise



Induction coil magnetometer LEMI-118 is intended for the study of magnetic field fluctuation in the frequency band 1 – 70000 Hz in field environment. It can be used both as a part of magnetic measuring system and autonomously with any analogue or digital registration unit.

## MAIN TECHNICAL PARAMETERS

Frequency band of received signals	1 – 70000 Hz
Shape of transfer function	linear – flat
Type of output	symmetrical
Transformation factor at both output terminals: at linear part (1 – 20 Hz) at flat part (20 – 60000 Hz)	f·mV/(nT·Hz) 20 mV/nT
Transformation factor error: at flat part of band pass without edges at full band pass edges and corner frequencies	£ ±0.25 dB £ 3 dB
Magnetic noise level, pT·Hz <sup>-1/2</sup> : at 1 Hz at 10 Hz at 10 kHz at 50 kHz	£ 5 £ 0.2 £ 0.005 £ 0.01
Nominal output load	C£ 0.001 mkF R <sup>3</sup> 10 k
Power supply voltage	± (12 ± 0.5) V
Power consumption	£ 240 mW
Outer dimensions	l = 800 mm, d = 42 mm
Mass	£ 1.7kg