

# THREE-COMPONENTS FLUX-GATE MAGNETOMETER LEMI-012



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Three-components flux-gate magnetometer LEMI-012 is intended for automatic measurement of three components of DC magnetic field induction onboard the spacecraft. It allows receiving authentic information about the Earth magnetic field vector components and their variations. Its main peculiarity is low magnetism of the housing and all components what enabled to manufacture it as monoblock construction (sensor inside the housing). The galvanically insulated power converter utilizes onboard power supply voltage 24...34 V. Output digital serial interface RS-232 maintains UART protocol.

## TECHNICAL SPECIFICATIONS

<b>Measurement range, nT</b>	<b>±60000</b>
<b>Resolution, nT</b>	<b>&lt; 1</b>
<b>Transfer error, % of reading</b>	<b>&lt; 0.1</b>
<b>Transfer drift over temperature, % of reading /° C</b>	<b>&lt; 0.005</b>
<b>Operation temperature range, ° C</b>	<b>- 40...+80</b>
<b>Power consumption, W</b>	<b>&lt; 0.6</b>
<b>Overall dimensions, mm</b>	<b>150x90x45</b>
<b>Weight, kg</b>	<b>0.7</b>