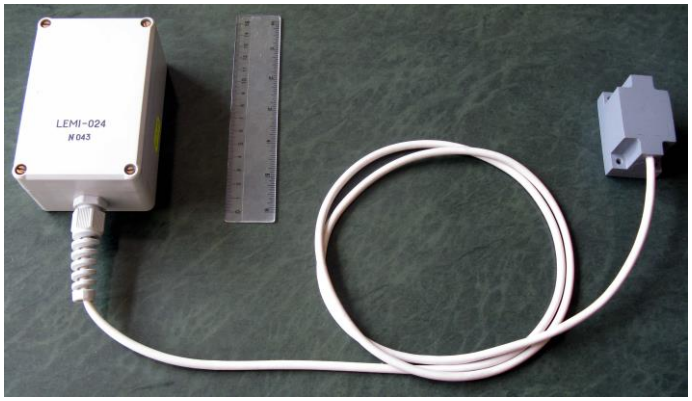
THREE-COMPONENT FLUX-GATE MAGNETOMETER LEMI-024

Main features

- Wide frequency dynamic range
- Super low noise
- Low power consumption
- Dual output



Three-component flux-gate magnetometer LEMI-024 is intended for the measurement of three components of the magnetic field vector. The instrument has two set of outputs: low-sensitivity unfiltered output for rough estimating of magnetic field intensity and high-sensitivity filtered output for its weak fluctuations measuring in the frequency band 0.01- 10 Hz.

We are flexible to adopt every parameter to your needs.

TECHNICAL SPECIFICATION

Number of components	**3**
Measurement range at outputs:	
Unfiltered	**± 80000 nT**
Filtered	**± 200 nT**
Frequency band at outputs:	
Unfiltered	**DC…15 Hz**
Filtered	**0.01…10 Hz**
Transformation coefficient at outputs:	
Unfiltered	**0.056 mV/nT**
Filtered	**22.4 mV/nT**
Transformation coefficient error	**± 3 %**
Magnetic noise density at 5.0 Hz	**≤ 12 pT/√Hz**
Noise rejection at 50 Hz (filtered output, a Low Pass filter used)	**> 60 dB**
Analog output voltages	**±4.5 V min**
Non-orthogonality	**<1 deg**
Power supply voltage	**12±1 V**
Power consumption	**< 350 mW**
Operating temperature range	**-20 … + 70°C**
Dimension	
Electronic Unit (without cable gland and connector)	**120 x 80 x 60 mm**
Sensor (without cable)	**62 x 40 x 40 mm**
Sensor cable length	**1.5 m**
Mass	**< 1.1 kg**
Output connector	**D-sub DB9M**

A cable permanently connects the Electronic Unit and the Sensor.

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