KMS Technologies
Innovating Solutions

LEMI Sensors:

Fluxgate magnetometer LEMI-031

Product description

- Super low-power
- Low temperature drift
- Low noise level
- One cell Li-ion battery operation
- Differential outputs for easy coupling with ADC
- 1 year operational guarantee
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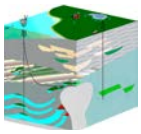
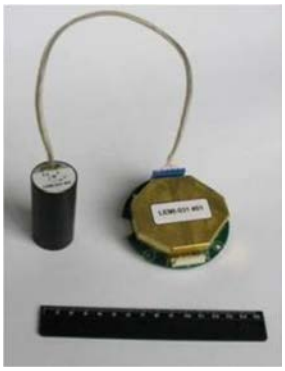
Super low power flux-gate magnetometer LEMI-031 is intended for the monitoring of three components of the magnetic field vector and its variations in land and laboratory conditions. The instrument is specially designed for battery powered applications and has differential outputs for easy coupling with analogue to digital converter. Several know-hows are used to keep the power consumption of LEMI-031 magnetometer at world lowest level. The current version of the instrument is destined to be embedded into a host system. The electronic board could also be packed in the body for autonomous applications.





LEMI-031 system.

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Product specifications

Specifications:

- Measured range of magnetic field variations| (± 53000 nT)
- Transformation coefficient value (differential output) | (0.06 mV/nT)
- Noise level at 1 Hz | (< 25 pT/Hz1/2)
- Temperature drift | (< 1.5 nT/°C)
- Components orthogonality error | (< 2°)
- Frequency band | (DC – 15 Hz)
- Operating temperature range | (0 to +70° C)
- Power supply | (3.3 – 3.7 V)
- Power consumption | (
- Physical Dimensions: sensor (without the cable) | (1= 70.5 mm, d = 32 mm)
- Physical Dimensions: electronic board | (D = 84 mm, H = 22 mm)
- Weight: sensor with the cable | (<75 g)
- Weight: electronic board | (<100 g)