

Product description

Fluxgate magnetometer (FG) LEMI-026 was developed for the super sensitive magnetic field measurements for drone application or other moving applications. The autonomous fluxgate magnetometer is for precise 3-component measurements of Earth's magnetic field both in motion and as a reference base. It includes a low power data logger.

It may be used for autonomous measurements with moving carriers (drones) or being included in sea/land stations. There are two-components tilt-meter and GPS antenna inside allowing obtaining precise measurement timing, magnetometer coordinates, altitude and attitude during movement. These data are stored in the SD memory card.

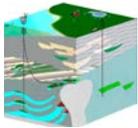


Figure 1: LEMI-026 system with and without housing cover.

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Product applications

- Engineering geophysics
- Powerline mapping
- Aero-geophysics link to ground measurements

Product specifications

Magnetic field range	± 70000 nT
Frequency range	DC...100 Hz
Sampling	250 Hz
Noise level at 1 Hz	<0.1 nT/SQRT(Hz)
ADC	32 bits
Tilt-meter range	±30°
Tilt-meter resolution	0.01°
Operating temperature range	-20... + 60°C
Power supply voltage	5 + 0.25 V
Maximal power consumption	< 1.2 W
Recording time with 1900 mAh internal battery	5 h
GPS Receiver	
Timing accuracy	<100 ns
Maximal data rate	10 Hz
Auxiliary digital interface	USB
SD card flash memory	8 GB
Weight (with internal battery):	1.25 kg
Dimensions	96 x 96 x 270 mm