LEMI
A KMS Technologies company
Laboratory for ElectroMagnetic Innovation

LEMI-022 Three component analog/digital magnetometer

Used for precise measurement of Earth's magnetic field and its variations both in and out of laboratories. All three components are implemented in the same body. LEMI-022 consists of two units, the sensor unit with adjustable support and the electronic unit both connected by long cable. The electronics is implemented as a “black box” unit with both analog output which may be connected to any analog registration unit and digital output. The LEMI-022 automatically acquires magnetic field data and its variations and transmits this data via RS232 or RS422 interface to the user.

Product Applications

LEMI-022 three component magnetometers are used for measurements of magnetic field variations in the frequency range from 0 to 0.3 Hz. Their low frequency bandwidth and low noise make them the ideal fluxgate sensor for magnetotelluric measurements.

Highlights

- High resolution and precision
- Low noise
- Low temperature offset
- Convenience of installation and service
- Low power consumption

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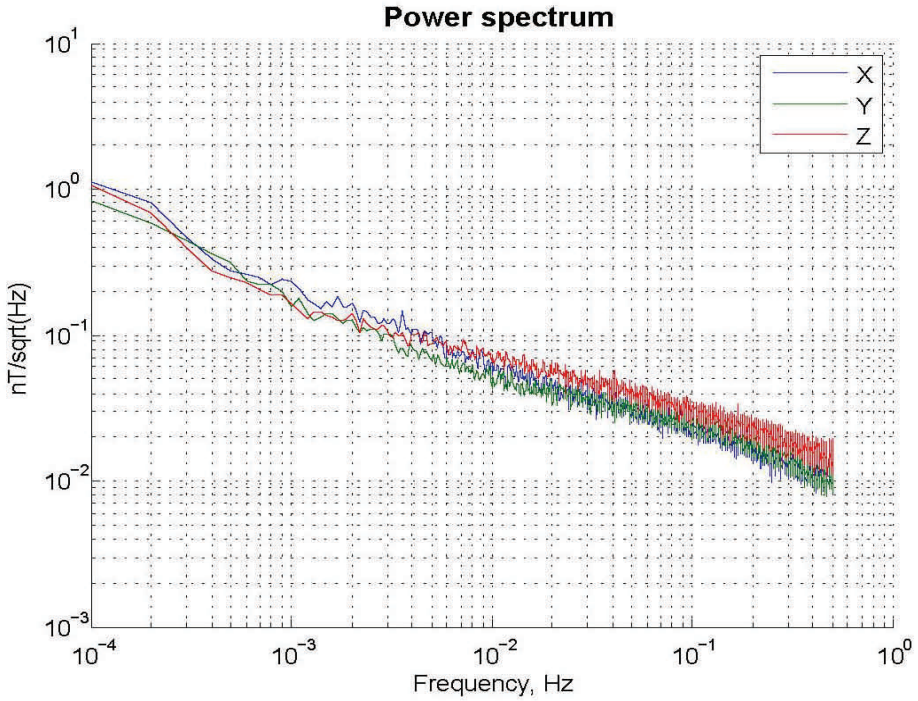
Product Specifications

Measurement range	+/-68000 nT
Magnetic field variation range (w/o additional compensation)	+/- 2000 nT
Resolution at digital output **Analog output sensitivity**	0.06 nT 1.3 mV/nt
Temperature drift	<0.5nT/°C
Frequency band	0...0.3 Hz
Magnetometer own noise density at frequency 1 Hz	< 10 pT
Magnetic sensor components orthogonality error	< 30 min of arc
Thermometer measurement range **Thermometer resolution** **Thermometer basic measurement error**	-40 to +60°C 0.037°C 0.5%
Operating temperature range	-20 to +50°C
Power supply	10-18 V
Power consumption	<0.7 W
Weight **Electronics unit** **Sensor with supports**	 1.8 kg 2.7 kg



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