

LEMI-025 REFERENCE INTERMAGNET STANDARD FLUXGATE MAGNETOMETER



LEMI-025 reference fluxgate magnetometer with sensor, GPS antenna, and card reader

Advantages

The magnetometer has no counterparts in the world market. Its major advantages are a very precise GPS time synchronization of the acquired data and an effective cancellation of power mains interference

Stage of Development. Suggestions for Commercialization

IRL8, TRL8
Manufacture, delivery, warranty service, and staff training, upon request

Areas of Application

A basic magnetometer for geomagnetic observatories that meets new 1-second INTERMAGNET standard; can be used for fundamental geophysical research of Earth's crust; a reference instrument for in-situ calibration of magnetometers without interruption of their operation

Specification

Measured range of Earth's magnetic field, nT	±70 000
Measured range of magnetic field variations, nT	±4 000
Resolution for each component, pT	1
Frequency band, Hz	0–3.5
Noise level within frequency band from 0.01 to 1 Hz	<10 pT _{mean square}
Temperature drift, nT/°C	<0.2
Components orthogonality error, min of arc	<30
Timing accuracy, ms	<10
Compact Flash card capacity, GB	<2
Operating temperature range, °C	-10...+50
Power supply, battery, V	12 ₋₃ ⁺⁶
Power consumption, W	<4
Weight:	
sensor with support, kg	3.3
electronic unit, kg	3.8

IPR Protection

IPR1

Contact Information

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