Jena SQUID System

JESSY STAR

for Speedy Tensor Airborne Recording

Interested in a Full Tensor Airborne Magnetic Gradiometer System ?

Use the New Generation and world's most advanced JESSY STAR System.

Outstanding performance of a full tensor airborne magnetic gradiometer to localize and quantify magnetic targets.

The system utilizes integrated high-performance low T_C SQUIDs and works in a helicopter towbody as well as a fixed-wing installation.

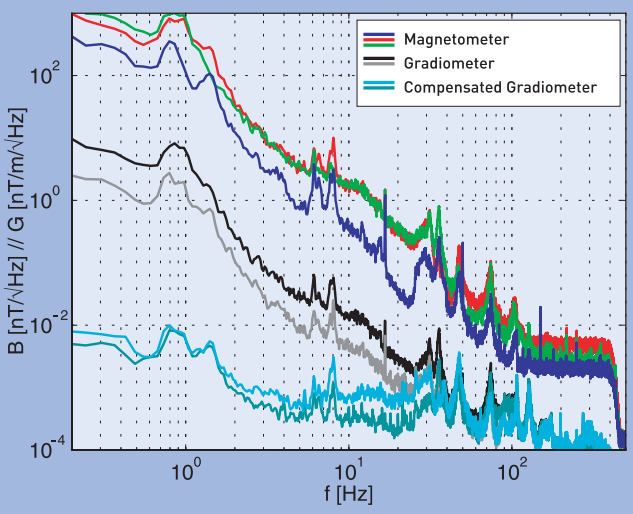
It includes six gradiometers and three magnetometer channels, to compensate for sensor motion noise.

High spatial resolution is provided by a differential GPS system using SBAS and an inertial unit (INU), which are synchronized with the magnetic gradient data. The INU data is used for motion compensation. The Data Acquisition System (DAS), incorporates a small-sized 15 channel 24 bit analogue digital converter unit.

The main parameters of the system are:

Channels	9 (6 gradiometers and 3 magnetometers)
Bandwidth	DC...500 Hz
Power	Internal battery, 12V/14Ah, 6 hours operation
Cryostat	Liquid helium, 72 hours refilling interval
Total weight	100kg (including the tow body and 70kg of ballast)
System setup	by IBM compatible PC
Data	Saved to the hard disk on a IBM compatible PC with real time data display for measurement control.

Airborne recorded noise spectra of raw and compensated gradiometer



Supracon designs, develops, and manufactures customized LT_C SQUIDs and has solutions for all your particular measurement and packaging requirements. We look forward to doing business with you.

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