RMS INSTRUMENTSFor Geophysical Exploration

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COMPLETE SYSTEM FOR HIGH-RESOLUTION UAV/ROV-BASED MAGNETOMETRY

State-of-the-art system for magnetometry based on Unmanned Aerial Vehicles (UAVs) or Remotely Operated (Underwater) Vehicles (ROVs), with general-purpose real-time data acquisition and recording. Allows configurations with a single high-sensitivity magnetometer, or with two magnetometers in a gradiometer setup.

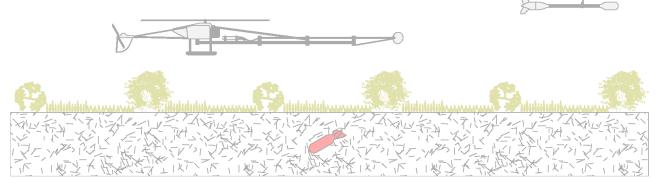
Intended for applications that do not require compensation* of magnetic interference generated by the platform. Designed for use in demanding airborne (as well as ground and underwater) geophysical and environmental surveying, the system is a perfect fit for unmanned installations because of its light weight, compact package, and low power consumption.

DAS52 Aeromagnetic Data Acquisition & Logging System [DAS52 Datasheet]

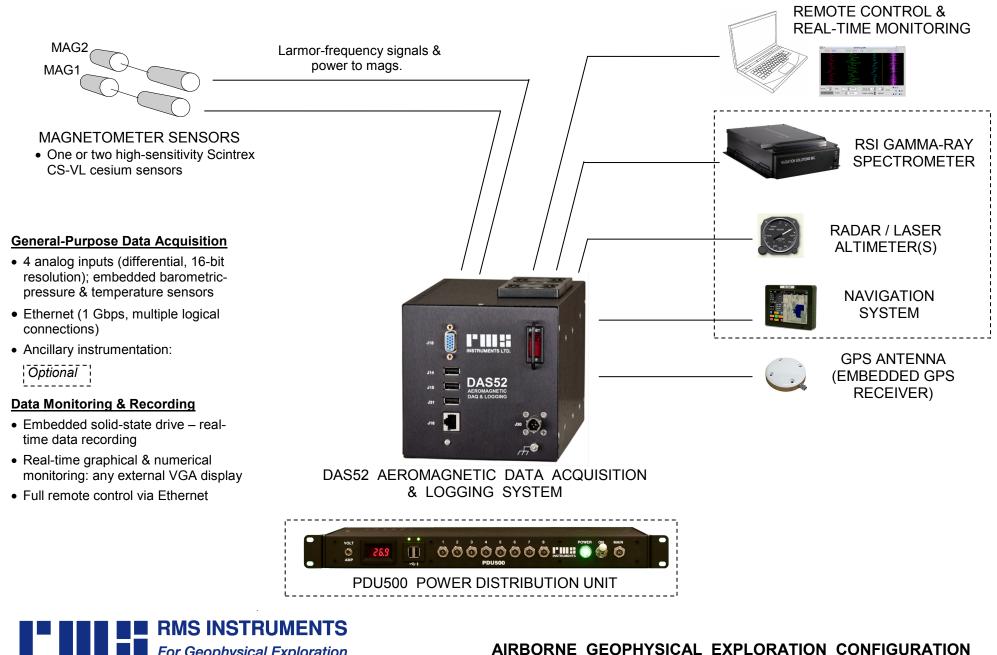
- Integrated magnetometer power/decoupler module for two sensors
- Integrated dual-frequency GPS receiver (L-Band corrections)
- Built on the foundation of highly reliable hardware and firmware, and sophisticated and robust algorithms that have been proven in a multitude of installations
- Consistent with the magnetics, ancillary data acquisition is delivered with unparalleled performance, accuracy and reliability
- Full remote control and real-time monitoring from any Windows-based computer

Scintrex CS-VL Magnetometers [CS-VL Manual]

- Optically-pumped, self-oscillating cesium vapor magnetometer sensors for UAV/ROV applications
- Very high sensitivity, narrow dead zones, low heading errors, simple integration extensively proven in a variety of airborne installations
- Flying-Cam UAV Helicopters [Website]
 - Fully-integrated, fixed-mount* solutions on industry-leading helicopters, designed to meet or surpass the most stringent general aviation standards
 - Single magnetometer or lateral gradiometer configurations
 - Electric (10-kg payload, 60-min flight time), or turbine (30-kg payload, 3-hr flight time)
- Ancillary instrumentation: PDU500 Power Distribution Unit (PDU500 Datasheet), radar and/or laser altimeters, navigation system, etc.



[*] Fixed-mount installations, coupled with advanced real-time compensation technology, offer a solution largely superior to the towed-sensor approach, with lower residual errors and none of its inherent risks and logistical issues. Consult RMS Instruments for information on a similar system based on the AARC52 Adaptive Aeromagnetic Real-Time Compensator.



Dec/2024

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