

G-824A Data Sheet

The Geometrics Model G-824A mates the well-proven high-performance caesium sensor with new sensitive internal sensor driver and Larmor counter electronics. Improved low noise amplifiers have now lowered the noise floor to approximately 350 fT (femto-Tesla). This advanced integrated magnetometer provides unmatched versatility in performance, small size, low weight, wide application range and cost effectiveness



G-824A Caesium vapour magnetometer for high performance airborne surveys. Image courtesy of Geometrics Inc.

The system's high performance and multi-function capability are excellent for mapping geologic structure for mineral and gas exploration. Rapid sample rates enhance the detection and delineation of targets for environmental, archaeological or UXO and EOD surveys. Detection ranges, classification and precision mapping are improved by the G-824A performance and in some cases provide results not achievable by any other means. The G-824A meets the highest standards for airborne, land or marine surveys meeting rigorous vibration and environmental testing standards.

Gradiometer sensor arrays are particularly effective for geologic mapping and search. The G-824A provides the ability to concatenate RS-232 outputs from up to 8 sensor/counter assemblies into a single digital stream, transmitted up a single cable and record on a single computer serial port. Each of these sensors is synchronized to within 1ms for simultaneous measurement and true gradient measurements.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	45cm x 7cm x 7cm	2.3kg

Technical Specifications

Sensor: Self-oscillating split-beam caesium vapour (non-radioactive).

Operating Range: 20,000 to 100,000 nT.

Sensitivity: