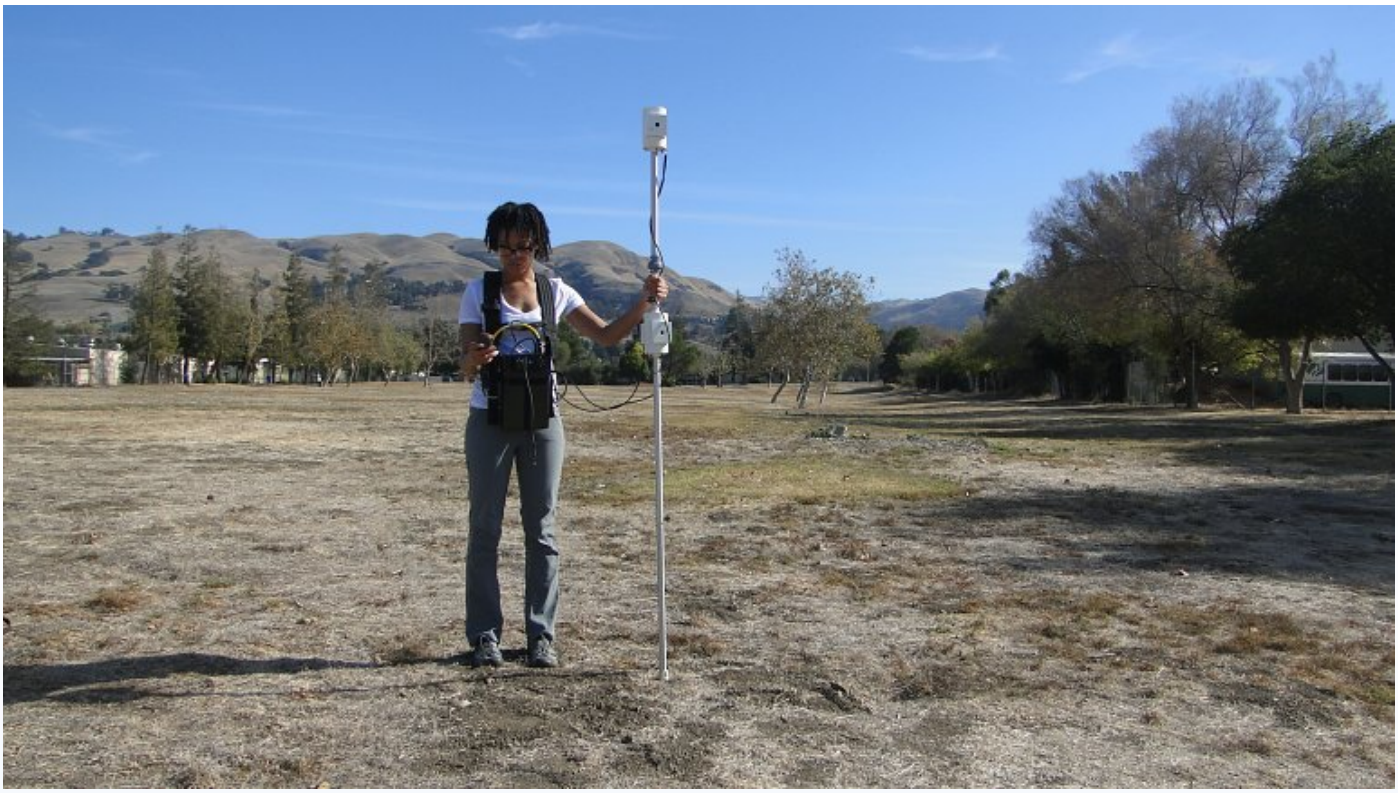
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G-857 Data Sheet

The G-857 provides a reliable, low cost solution for a variety of magnetic search and mapping applications. Single key stroke operation means the G-857 can be operated by non-technical field personnel or used in teaching environments. The G-857 uses the well-established proton precession method, allowing accurate measurements to be made with virtually no dependence upon variables such as sensor orientation, temperature, or location. The unit provides a repeatable absolute total field magnetic reading. The unit offers new features such as GPS time synchronisation, GPS positions and in-field navigation with a hand held Garmin GPS.



G-857 in use as a gradiometer with integrated GPS. Image courtesy of Geometrics Inc.

The G-857 is ideal for mapping geological structures, for mineral exploration, or magnetic search for industrial, environmental or archaeological targets. The optional gradiometer attachment gives greater resolution and noise immunity for conducting searches in high cultural noise environments. Simple operation, large digital data storage capability, and the inclusion of MagMap2000 data transfer and editing software provides a system well suited for both teaching and survey applications.

The automated cycling option with long sensor cable and external power connection allows the G-857 to be used as a base station instrument for the measurement of diurnal changes in the Earth's magnetic field. Diurnal correction data is then downloaded using MagMap2000 and can be applied to either land or airborne magnetometer data.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight

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(instrument only)	18cm x 27cm x 9cm	2.7kg

Technical Specifications

Resolution:	0.1nT.
Accuracy:	Absolute 0.5nT.
Clock:	Julian date, accuracy 5 sec per month.
Tuning:	Auto or manual, range 20,000nT to 90,000nT.
Gradient Tolerance:	1000nT/m.
Cycle Time:	1.6 sec to 999 sec.
Power:	12V rechargeable Gel Cell.
Measurement:	Manual,or auto cycle for use as base station.
Memory:	65,000 measurements.
Communication:	RS232 serial, 4800-115200 baud.
Temperature:	0-40ºC (Will operate satisfactorily from -20-50ºC).

Gallery



G-857 setup as a base station magnetometer for monitoring diurnal corrections. Image courtesy of Geometrics Inc

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Navigating using the optional Garmin GPS. Image courtesy of Geometrics Inc

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G-857 configured as a roving magnetometer for geological and mineral exploration. Image courtesy of Geometrics Inc



Gramin navigation display. Image courtesy of Geometrics Inc

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