



Portable Proton Magnetometer Model G-856AX

- **0.1 nT resolution and sensitivity
Designed for ease of use by non-skilled personnel**
- **Digital memory - 12,500 readings**
- **Manual data recall, or down load to a PC**
- **Versatile, total field, gradiometer or base station use**
- **Rugged weatherproof construction.**

The G-856 provides a reliable, low cost solution for a variety of magnetic search and mapping applications. Single key stroke operation means the G-856AX can be operated by non-technical field personnel or used in teaching environments. The G-856AX uses the established proton precession method, allowing accurate measurements to be made with virtually no dependence upon variables such as sensor orientation, temperature, or location. The



G-856AX Arctic Survey



G-856AX Electronic/Battery Console

unit provides a repeatable absolute total field magnetic reading, traceable to the National Bureau of Standards, unlike other magnetic field measurement processes which measure only a single component of the field.

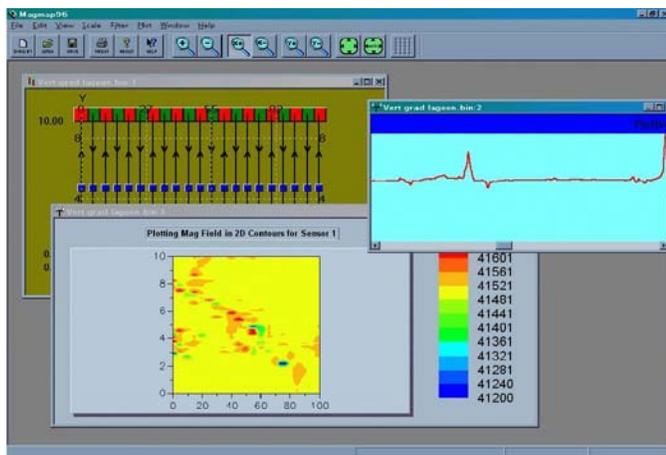
Applications:

The G-865AX is ideal for mapping geological structures, for mineral exploration, magnetic search for industrial, environmental or archaeological targets. The optional gradiometer attachment gives greater resolution and noise immunity for conducting searches in industrial or 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 use of the G-856AX as a Basestation unit for the measurement of diurnal changes in the earth's magnetic field. Diurnal correction data is then downloaded by MagMap2000 and can be applied to other 856, 858 or 822/823 Airborne data.

Superior Data Editing Software.

MagMap2000 allows rapid download of the data from the G-856AX to a PC. Data can be diurnally corrected, profile lines and positions displayed and edited, noisy readings filtered and QC plots of profiles, 2D contour and 3D surface plots made. Data can be exported to Surfer, Geosoft or MagPick (free from Geometrics) for more sophisticated final maps and analysis. The software requires Windows 98, NT or XP operating system.



MagMap2000 Display Screen

A thoroughly well proven design (over 2,600 units sold), excellent performance and the lowest price professional system are key features of the G-856AX. Combined with the ease of use, user friendly download/editing software, and readily available commercial contouring programs, the G-856AX represents a complete magnetic surveying package generating high quality data for budget conscious users.



G-856AX Desert Survey in Tibet

Specifications:

Resolution: 0.1 nT

Accuracy : 0.5 nT

Clock: Julian date, accuracy 5 sec per month.

Tuning: Auto or manual, range 20,000 to 90,000 nT

Gradient Tolerance: 1000 nT/meter

Cycle time: 3 sec to 999 sec standard , can be manually selected as fast as 1.5 sec cycle time.

Read: Manual, or auto cycle for base station use.

Memory: 5700 field or 12500 base station readings

Display: Six digit display of field/time, three digit auxiliary display of line number, day

Digital Output: RS-232, 9600 baud.

Input: Will accept external cycle command.

Physical: Console: 7 x 10.5 x 3.5 inches, (18 x 27 x 9 cm) 6 lbs (2.7 kg)
Sensor: 3.5 x 5 inches (9 x 13 cm) 4 lbs (1.8 kg)

Environmental: Meets specifications within 0° to 40°C (32° to 105°F)

Will operate satisfactorily from -20° to 50°C (-4° to 122°F)

Power: 9 each 1.5 “D” Cells or Gel Cell

Standard Accessories:

Sensor, Staff, Chest Harness, Two sets of batteries, RS-232 cable, Operations manual, Applications manual, MagMap96 software
Options: Gradiometer attachment. External Power/sensor cable, External power/RS-232/sensor cable, rechargeable battery and charger set.

For additional information on these and other products, contact:

 **RMS INSTRUMENTS**
For Geophysical Exploration

6877-1 Goreway Drive
Mississauga, Ontario
Canada L4V 1L9

Tel: 905.677.5533
Fax: 905.677.5030
Web: www.rmsinst.com
E-mail: rms@rmsinst.com