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.

G-856AX Electronic/Battery Console

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 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 MagMap 96 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 MagMap96 and can be applied to other 856, 858 or Airborne data.

G-856AX Arctic Survey

Superior Data Editing Software.

MagMap 96 allows rapid down load of the data form the G-856AX to a PC. Data can be diurnally corrected, profile lines and positions diplayed and edited, noisy readings filtered and QC plots of profiles, 2D contour and 3D surface plots made. Data can be exported to Surfer or Geosoft for more sophisticated final maps and analysis. The software requires Windows 95, 98 or NT operating systems.
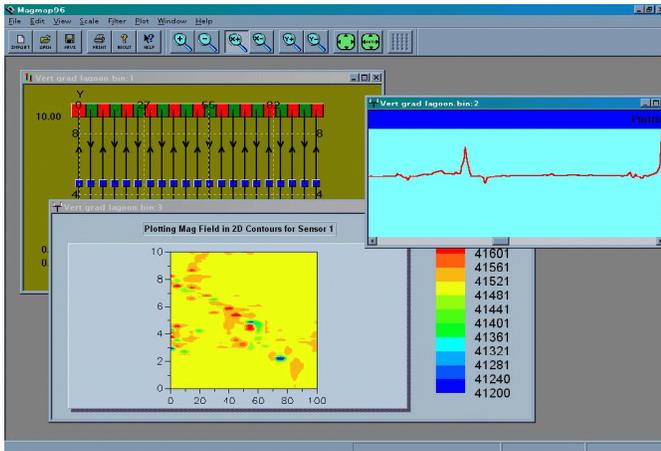
MagMap96 Display Screen

A thoroughly well proven design (over 2,000 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
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.

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