

2G Enterprises

MODEL 2G760

SUPERCONDUCTING ROCK MAGNETOMETER

STANDARD FEATURES

High-Sensitivity DC SQUIDS	Magnetic Dipole Moment Noise of less than $2 \times 10^{-12} \text{ Am}^2$ (2×10^{-9} EMU) RMS per root Hz for 7.6cm access
Low Helium Consumption	Approximately 900 days operation with 90 liters of helium.
No Helium Diffusion	All metal construction eliminates cycling system to room temperature to repump vacuum.
Sample Access	Vertical or Horizontal Orientation.
Standard Access	Diameter of 7.6 cm.
Pass Through Access for Long Cores	
Performance is Independent of Liquid Helium Level	
Dynamic Range	$< 2 \times 10^{-12}$ to $> 2 \times 10^{-4}$ Am ² analog in 4 ranges. $< 2 \times 10^{-12}$ to $> 2 \times 10^{-3}$ Am ² digital flux count on a single range.
Compact	Minimum Length, maximum shielding. Outside diameter = 53 cm
Cryocooler Mounting	Overall length = 155 cm including cryocooler. On opposite end from SQUIDS and electronics.
Field Attenuation	10^6 for transverse fields 10^{11} for axial fields.
Digital Flux Counting	Gives single scale with greater than 180 db dynamic range.
Microprocessor Based Electronics	Digital and analog signal outputs, with all range and filter settings front panel and computer controlled.
Serial RS-232 Data and Command	Link between sensors electronics and external computer to control electronics functions.
Heat Switch on Superconducting Shield	Can change field with system filled with helium in less than 10 minutes. About 0.2 liters helium per change.

- ◆ Available with one, two or three measurement axes
- ◆ Manual and Computer Controlled Sample Handling and AF Degaussing Systems Available