

# SSR, Inc.

## Science & Technology in a Marine Environment

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2853 S.E. St. Lucie Blvd. Stuart, Fl. 34997 • Tel: (800) 408-1234 • Fax: (772) 781-0103

### **Geometrics 881 Magnetometer**



The Geometrics 881 magnetometer is an extremely high resolution Cesium Vapor magnetometer incorporated into a small size system for professional surveys in shallow waters. The towfish is small and light weight (44 lbs net) and easily deployed / operated by one man. The well proven Cesium sensor is combined with the unique CM-200 Larmor counter.

The Cesium magnetometer provides the same operating sensitivity and sample rates as the larger model G-880. A rugged fiber-wound fiberglass housing incorporates selective orientation of the sensor and therefore maintains operations throughout the world with small limitations as to the direction of the survey in Equatorial regions.

The G-881 system is particularly well suited for the detection and mapping of all sizes of ferrous objects. It is the lowest priced - highest performance fully operational marine magnetometer system ever offered. Utility software is supplied with each magnetometer and allows display of data and recording to hard disk.

- High Sensitivity - 0.004 nT/ Hz RMS with the internal CM-200 Mini-Counter
- Digital output - Computer logging: use your computer with MagSea RS232 logging/display software or Geometrics supplied CM-200 View utility program
- Combine two systems for increased coverage - CM-200 Mini-counter provides multi-sensor data concatenation allowing side by side coverage which maximizes detection of small targets and reduces noise.
- Operating Range: 20,000 nT to 100,000 nT
- Operating Principle: Self-oscillating split-beam Cesium Vapor (non-radioactive Cs133).
- Operating Zones: The earth's field vector should be at an angle greater than 6° from the sensor's equator and greater than 6° away from the sensor's long axis. Automatic hemisphere switching.
- Data Output: Three wire RS232, 9600 baud
- Power: 24 to 32 VDC, 0.75 amp at turn-on and 0.5 amp thereafter