

Magnetometer - Geometrics model G-882



Considering our principle for versatility and portability, our Geometrics model G-882 system is lightweight, compact and easy to carry on any survey site. The G-882 is able to operate on both shallow and deep water and can be used coupled with Klein model 3900 side-scan sonar. This enables us to generate high-resolution sonar images and magnetometer data simultaneously.

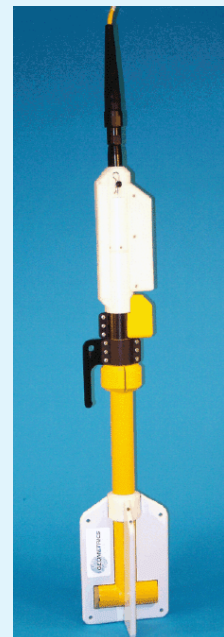
The G-882 system allow locating and mapping metallic objects including anchors, chains, cables, pipelines, ballast stone, shipwreck debris, munitions of all sizes (UXO), aircraft, engines and any other object with magnetic expression.

ABT Marine is a part of the **AquaBioTech Group**, and as an independent marine hydrographic survey firm, we offer a broad range of capabilities in survey, construction support, precise positioning and project management within the marine industry



Typical Detection Range for Common Objects:

Ship 1000 tons:	0.5 to 1 nT at 800 ft (244 m)
Anchor 20 tons:	0.8 to 1.25 nT at 400 ft (120 m)
Automobile:	1 to 2 nT at 100 ft (30 m)
Light Aircraft:	0.5 to 2 nT at 40 ft (12 m)
Pipeline (12 inch):	1 to 2 nT at 200 ft (60 m)
Pipeline (6 inch):	1 to 2 nT at 100 ft (30 m)
100 kg of iron:	1 to 2 nT at 50 ft (15 m)
100 lbs of iron:	0.5 to 1 nT at 30 ft (9 m)
10 lbs of iron:	0.5 to 1 nT at 20 ft (6 m)
1 lb of iron:	0.5 to 1 nT at 10 ft (3 m)
Screwdriver 5 inch:	0.5 to 2 nT at 12 ft (4 m)
1000 lb bomb:	1 to 5 nT at 100 ft (30 m)
500 lb bomb:	0.5 to 5 nT at 50 ft (16 m)
Grenade:	0.5 to 2 nT at 10 ft (3 m)
20 mm shell:	0.5 to 2 nT at 5 ft (1.8 m)



G-882 Marine Magnetometer Specification

Operating principle	Self-oscillating split-beam Cesium Vapor (Non-radioactive)
Operating range	20,000 to 100,000 nT
Operating Zones	The earth's field vector should be at an angle greater than 60 from the sensor's equator and greater than 60 away from the sensor's long axis. Automatic hemisphere switching.
CM-221 Counter Sensitivity	<0.004 nT/ pHz rms. Typically 0.02 nT P-P at a 0.1 second sample rate or 0.002 nT at 1 second sample rate. Up to 40 samples per second.
Heading Error	<1 nT over entire 360o spin and tumble
Absolute Accuracy	<3 nT throughout range
Output	RS-232 at 1,200 to 19,200 Baud
Operation temperature	-30oF to +122oF (-35oC to +50oC)
Water tight	O-Ring sealed for up to 9000 ft (2750 m) depth operation
Software	MagLog lite