

# Geometrics G882

## Cesium Marine Magnetometer



The Geometrics G-882 Marine Magnetometer is a high-resolution Cesium vapor system designed for professional marine surveys in both shallow and deep water.

### Key Features

- **Industry-leading marine magnetometer with 1,000+ systems deployed globally**
- **Meets UXO clearance standards for the North Sea**
- **High-resolution Cesium vapor technology for precise magnetic field measurements**
- **Compact and lightweight design for easy single-person deployment**
- **Compatible with MagLog™ software for data logging, display, and GPS integration**
- **Direct interface with major side-scan sonar systems for tandem tow operations**
- **Flexible configuration: add weight collars for deep-tow applications (up to 100 lbs)**
- **Cost-effective solution for both shallow and deep-water surveys**

## Specifications

Depth rating	4,000 psi (2,730 m; 8956 ft)
Weight	18 kg (40 lb).
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 10° from the sensor's equator and greater than 6° away from the sensor's long axis. Automatic hemisphere switching.
Noise:	<0.004 nT/√Hzrms. (SX (export) version: <0.02 nT/√Hzrms)
Gradient Tolerance:	10,000 nT/m
Max Sample Rate:	20 Hz
Heading Error:	< 1 nT (over entire 360° spin)
Supply voltage	24 to 32 VDC, 0.75 A at power-on and 0.5 A thereafter
Output	RS-232 at 1,200 to 19,200 Baud
Main port protocol	Ethernet or VDSL
Update rate	5 – 40 Hz (range dependent)

### MECHANICAL

#### Sensor Fish

DIA: 7 cm; L: 137 cm (2.75x54 in) (with fin assembly).

Weight: 18 kg (40 lb).

Includes sensor and electronics and 1 main weight. Additional collar weights are 6.4 kg (14 lb) each; total of 5 capable.

#### Tow Cable

DIA: 12 mm; L: 800 m (0.47 in x 2,625 ft)

Weight: 7.7 kg (17 lb) with terminations

Break strength: 1,630 kg (3,600 lb)

Bend diameter: 30 cm (12 in).