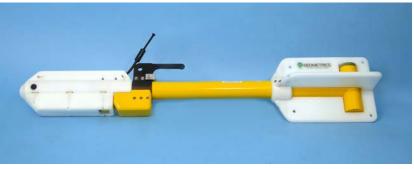
G-882SX MARINE MAGNETOMETER

- CESIUM VAPOR PERFORMANCE Tow the Cesium magnetometer "Anywhere Any Direction" worldwide
- NEW STREAMLINED DESIGN FOR TOW SAFETY Low probability of fouling in lines or rocks
- NEW QUICK CONVERSION FROM NOSE TOW TO CG TOW Simply remove an aluminum locking pin, move tow point and reinsert. New built in easy carry handle!
- NEW INTERNAL CM-221 COUNTER MODULE Provides Flash Memory for storage of default parameters set by user
- NEW ECHOSOUNDER / ALTIMETER OPTION
- DEPTH RATING 4,000 psi (2,750m) !

Innovation • Experience • Results

- NO EXPORT LICENSE REQUIRED 0.02 nT with speeds up to 40 Hz with the internal CM-221 Mini-Counter
- EASY PORTABILITY & HANDLING no winch required, single man operation, only 44 lbs with 200 ft cable (without weights)
- COMBINE TWO SYSTEMS FOR INCREASED COVERAGE – Internal CM-221 Mini-Counter provides multi-sensor data sync and concatenation allowing side by side coverage which maximizes detection of small targets and reduces noise



Cesium Vapor performance is now available in a low cost, small size system for professional surveys in shallow or deep water. Good sensitivity and sample rates are maintained for all applications. The well proven Cesium sensor is combined with a unique and new CM-221 Larmor counter and ruggedly packaged for small or large boat operation. Use your computer and standard printer with our MagLogLiteTM software to log, display and print GPS position and magnetic field data. The G-882SX is the lowest priced full range marine magnetometer system ever offered.

The G-882SX offers flexibility for operation from small boat, shallow water surveys as well as deep tow applications (4,000 psi rating, telemetry over steel coax available to 10Km). The G-882SX also directly interfaces to all major Side Scan manufacturers for tandem tow configurations. Being small and lightweight (44 lbs net, without weights) it is easily deployed and operated by one person. But add several streamlined weight collars and the system can quickly weigh more than 100 lbs. for deep tow applications. Power may be supplied from a 24 to 30 VDC battery power or the included 110/220 VAC power supply. The tow cable employs high strength

G-882SX with Weight Collar Depth Option & Altimeter

Kevlar strain member with a standard length of 200 ft (61 m) and optional cable length up to 500m with no telemetry required.

A rugged fiber-wound fiberglass housing is designed for operation is all parts of the world allowing sensor rotation for work in equatorial regions. The shipboard end of the tow cable is attached to an included junction box or optional on-board cable for quick and simple hookup to power and output of data into any Windows 98, ME, NT, 2000 or XP computer equipped with RS-232 serial ports.

The G-882SX Cesium magnetometer provides non-export license operating sensitivity and sample rates for quick deployment anywhere in the world. MagLogLite[™] Logging Software is offered with each magnetometer and allows recording and display of data and position with Automatic Anomaly Detection and automatic anomaly printing on Windows[™] printer! Additional options include: MagMap2000 plotting and contouring software and post acquisition processing software MagPick[™] (free from our website.) The G 882SX system is particularly well suited for the detection and mapping of all sizes of ferrous objects. This includes anchors, chains, cables, pipelines, ballast stone and other scattered shipwreck debris, munitions of all sizes (UXO), aircraft, engines and any other object with magnetic expression. Objects as small as a 5 inch screwdriver are readily detected provided that the sensor is close to the seafloor and within practical detection range. (Refer to table at right).

The design of this high sensitivity G 882SX marine unit is directed toward the largest number of user needs. It is intended to meet all marine requirements such as shallow survey, deep tow through long cables, integration with Side Scan Sonar systems and monitoring of fish depth and altitude.

Typical Detection Range For Common Objects

<u></u>	
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)
<u>Automobile</u>	<u>1 to 2 nT at 100 ft (30 m)</u>
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)	<u>1 to 2 nT at 100 ft (30 m)</u>
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)
<u>1000 lb bomb</u>	<u>1 to 5 nT at 100 ft (30 m)</u>
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)

MODEL G 882SX CESIUM MARINE MAGNETOMETER SYSTEM SPECIFICATIONS

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 6E from the sensor's equator and greater than 6E away from the sensor's long axis. Automatic hemisphere switching. Now towable "Anywhere – Any Direction"
CM-221 COUNTER SENSITIVITY:	0.02nT/√Hz RMS (0.1 Peak to Peak or better at 10 Hz) with speeds up to 40 samples per second
Heading Error:	< 1 nT (over entire 360° spin)
Absolute Accuracy:	< 2 nT throughout range
Ουτρυτ:	RS-232 at 1,200 to 19,200 Baud
Mechanical:	
Sensor Fish:	Body 2.75 in. (7 cm) dia., 4.5 ft (1.37 m) long with fin assembly (11 in. cross width), 40 lbs. (18 kg) Includes Sensor and Electronics and 1 main weight. Additional collar weights are 14lbs (6.4kg) each, total of 5 capable
Tow Cable:	Kevlar Reinforced multiconductor tow cable. Breaking strength 3,600 lbs, 0.48 in OD, 60m (200 ft) standard, 800m maximum with special power supply. Weighs 17 lbs (7.7 kg) with terminations.
OPERATING TEMPERATURE:	-30°F to +122°F (-35°C to +50°C)
STORAGE TEMPERATURE:	-48°F to +158°F (-45°C to +70°C)
ALTITUDE:	Up to 30,000 ft (9,000 m)
WATER TIGHT:	O-Ring sealed for up to 4,000 psi (9000 ft or 2750 m) depth operation
Power:	24 to 32 VDC, 0.75 amp at turn-on and 0.5 amp thereafter
Accessories:	
Standard:	Operation manual, shipping storage container and ship kit with spare hardware and tools
Optional:	Telemetry to 6 Km coax, gradiometer (longitudinal or transverse TVG), reusable shipping case
MagLog Lite [™] Software:	Logs, displays and prints Mag and GPS data at full sample rate. Automatic anomaly detection and single sheet Windows printer support

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



GEOMETRICS INC. 2190 Fortune Drive, San Jose, California 95131, USA Tel: 408-954-0522 – Fax: 408-954-0902 – Email: <u>sales@geometrics.com</u> Web: www.Geometrics.com

GEOMATRIX UK 20 Eden Way, Pages Industrial Park, Leighton Buzzard LU7 4TZ, UK Tel: 44-1525-383438 – Fax: 44-1525-382200 – Email: chris@georentals.co.uk sales@georentals.co.uk - Web: www.Geomatrix.co.uk

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