

MAGNETIC METHODS



CS-L CESIUM MAGNETOMETER

High Resolution Magnetics

CS-L SPECIFICATIONS

The Cs series Cesium Vapour airborne magnetometers have been successfully used for many years in airborne surveys for mineral and oil & gas exploration.

Airborne Magnetometry is commonly used for geological mapping as well as direct mapping of massive sulphide deposits.

Operating Principal: Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)

Operating Range: 15,000 to 105,000 nT (gamma)

Gradient Tolerance: 40,000 nT (gamma)
Operating Zones: 10° to 85° and 95° to 170°

Hemisphere Switching: a) Automatic

b) Manual (front panel switch)

c) Remote control by the voltage level

Sensitivity: $0.0006 \text{ nT } \sqrt{\text{Hz rms.}}$

Noise Envelope: Typically 0.002 nT P-P, 0.1 Hz bandwidth

Heading Error: ± 0.2 nT (gamma) (inside the optical axis to the field direction angle range 15°

to 75° and 105° to 165°)

Absolute Accuracy: <2.5 nT (gamma) throughout range

Output: a) Larmor frequency = 3.49857 Hz/nT (gamma) modulated on power supply

voltage

b) Larmor frequency square wave at the I/O connector Only limited by the magnetometer processor used

Sensor Head: Diameter: 63 mm (2.5")

Length: 160 mm (6.3") Weight: 1 kg (2.3 lbs)

Sensor Electronics: Dimension: 280 mm x 53 mm x 38 mm (11" x 2.1" x 1.5")

Weight: 0.6 kg (1.33 lb) Diameter: 12 mm (0.47") Length: Standard 3m (9.8')

Optional 1m to 5m (3.3' to 16.4')

Total CS-L Weight with 3m

Information Bandwidth:

Cable: 1.8kg (3.96 lbs)

Operating Temperature: -40°C to +50°C (-40°F to 122°F)

Supply Power: 24 to 35 Volts DC

OPTIONS

Cable:

Processors: Options may be quoted upon request

Software: Processing, interpretation and presentation software offered upon request Training: Training program may be provided either at our office or at your location to

meet your requirements

ISO 9001:2008 registered company. All specifications are subject to change without notice.

Specification Sheet Part Number 763711 Rev. 3



CANADA

Scintrex

222 Snidercroft Road Concord, Ontario L4K 2K1 Telephone: +1 905 669 2280 Fax: +1 905 669 6403

e-mail: scintrex@scintrexltd.com Website: www.scintrex.com



USA

Micro-g LaCoste 1401 Horizon Avenue Lafayette, CO 80026 Telephone: +1 303 828 3499 Fax: +1 303 828 3288

e-mail: info@microglacoste.com
Website: www.microglacoste.com