



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 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
Information Bandwidth:	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)
Cable:	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 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

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.

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