

MAGNETIC METHODS



CS-3 CESIUM MAGNETOMETER

High Resolution Magnetics

Setting the Standards

WWW.SCINTREXLTD.COM

CS-3 SPECIFICATIONS

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

Operating Range: 15,000 to 105,000 nT **Gradient Tolerance:** 40.000 nT/metre

15° to 75° and 105° to 165° Operating Zones:

Hemisphere Switching: a) Automatic

b) Electronic control actuated by the control voltage levels (TTL/CMOS)

c) Manual

Sensitivity: 0.0006 nT √Hz rms.

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

Heading Error: ± 0.2 nT (inside the optical axis to the field direction angle range 15° to 75°

and 105° to 165°)

Absolute Accuracy: <2.5 nT throughout range

Output: a) continuous signal at the Larmor frequency which is proportional

to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal

amplitude modulated on the power supply voltage

b) square wave signal at the I/O connector, TTL/CMOS compatible

Information Bandwidth: Only limited by the magnetometer processor used

Sensor Head: Diameter: 63 mm (2.5")

Length: 160 mm (6.3") Weight: 1.15 kg (2.6 lb) Diameter: 63 mm (2.5")

Length: 350 mm (13.8") Weight: 1.5 kg (3.3 lb)

Cable, Sensor to

Sensor Electronics:

Sensor Electronics: 3m (9' 8"), lengths up to 5m (16' 4") available

Operating Temperature: -40°C to +50°C

Humidity: Up to 100%, splash proof

Supply Power: 24 to 35 Volts DC

Supply Current: Approx. 1.5A at start up, decreasing to 0.5A at 20°C

Power Up Time: Less than 15 minutes at -30°C

OPTIONS

Options: Your CS-2 sensor can be upgraded to a CS-3, just call for details

Options may be quoted upon request Processors:

We can provide you with suggestions for all your ancillary requirements Systems:

regardless of the installation

Software processing, interpretation and presentation offered upon request Software: Training:

Training program may be provided either at our office or at your location to

meet your requirements

An ISO 9001:2008 registered company

All specifications are subject to change without notice

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CANADA

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