



CS-VL CESIUM MAGNETOMETER

High Resolution Magnetics

CS-VL SPECIFICATIONS

Sensor:	Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)
Operating Range:	15,000 to 105,000 nT
Gradient Tolerance:	40,000 nT/meter
Operating Zones:	15° to 75° and 105° to 165°
Hemisphere Switching:	a) Automatic b) Manual (internal switch)
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 (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 Larmor signal at the SMC connector, TTL/CMOS compatible
Information Bandwidth:	Only limited by the magnetometer processor used
Sensor Head:	Diameter: 50mm (2.0") Length: 132 mm (5.2") Weight: 400g (0.9 lb)
Sensor Electronics:	Dimension: H 3.8cm (1.5") x W 5cm (2") x L 25cm (9.75") Weight: 280g (0.62 lb)
Cable:	Diameter: 10 mm to 12 mm Length: 0.5m to 3m
Total CS-VL Weight	
With 3m (118") Cable (Standard):	890g (1.96 lb)
With 1m (40") Cable (Optional) :	780g (1.7 lb)
Operating Temperature:	-40°C to +50°C
Humidity:	Up to 90%, splash proof
Supply Power:	24 to 35 Volts DC
Supply Current:	Approx. 1A at start up, decreasing to 0.5A at 20°C
Power Up Time:	Less than 5 minutes at 20°C Less than 15 minutes at -30°C

OPTIONS

Processors:	Options may be quoted upon request
Systems:	We can provide you with suggestions for all your ancillary requirements regardless of the installation
Software:	Software processing, interpretation and presentation offered upon request
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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