

## CMG-3ESPC CALIBRATION SHEET

WORKS ORDER: 6510                      DATE: 13-Sep-2011

SERIAL NUMBER: T37030                      TESTED BY: S. Goddard

	Velocity Output V/m/s (Differential)	Mass Position Output (Acceleration output) V/m/s <sup>2</sup>	Feedback Coil Constant Amp/m/s <sup>2</sup>
VERTICAL	2 x 980	740	0.01575
NORTH/SOUTH	2 x 991	792	0.01685
EAST/WEST	2 x 992	778	0.01655

Power Consumption: 68mA @ +12V input  
Calibration Resistor: 51000

NOTE: A factor of 2 x must be used when the sensor outputs are used differentially (also known as push-pull or balanced output). Under no conditions should the negative outputs be connected to the signal ground. A separate signal ground pin is provided.

## POLES AND ZEROS TABLE

**WORKS ORDER NUMBER: 6510**

**SENSOR SERIAL NO: T37030**

Velocity response output, Vertical Sensor:

<u>POLES (HZ)</u>	<u>ZEROS HZ</u>
$-5.89 \times 10^{-3} \pm j5.89 \times 10^{-3}$	0
-180	0
-160	
-80	

Normalizing factor at 1 Hz: A = 2304000

Sensor Sensitivity: See Calibration Sheet.

Velocity response output, Horizontal Sensors:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-5.89 \times 10^{-3} \pm j5.89 \times 10^{-3}$	0
-180	0
-160	
-80	

Normalizing factor at 1 Hz: A = 2304000

Sensor Sensitivity: See Calibration Sheet.

**NOTE:** The above poles and zeros apply to the vertical and the horizontal sensors and are given in units of Hz. To convert to Radian/sec multiply each pole or zero with  $2\pi$ . The normalizing factor A should also be recalculated.