

**3.1.1.2 T1064****CMG-1T CALIBRATION SHEET**

WORKS ORDER: 4146                      DATE: 07-Aug-2009  
SERIAL NUMBER: T1064                      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 746	2124	0.01416
NORTH/SOUTH	2 x 748	1426	0.01426
EAST/WEST	2 x 744	1417	0.01417

Power Consumption: 60mA @ -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: 4146**

**SENSOR SERIAL NO: T1064**

Velocity response output, Vertical Sensor:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-1.964 \times 10^{-3} \pm j1.964 \times 10^{-3}$	0
-30.0529±j31.1211	0
-41.2564±j114.535	

Normalizing factor at 1 Hz: A =  $27.7 \times 10^6$

Sensor Sensitivity: See Calibration Sheet.

Velocity response output, Horizontal Sensors:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-1.964 \times 10^{-3} \pm j1.964 \times 10^{-3}$	0
-30.0529±j31.1211	0
-41.2564±j114.535	

Normalizing factor at 1 Hz: A =  $27.7 \times 10^6$

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.