CMG-40T-1 CALIBRATION SHEET

WORKS ORDER:	2968	DATE:	06-Oct-2005
SERIAL No:	T4J62	TESTED BY:	P. Stott

	Velocity Output V/m/s (Differential)	Mass Position Output (Acceleration output) $V/m/s^2$	Feedback Coil Constant $Amp/m/s^2$
VERTICAL	2 x 999.0	18.9	0.004028
NORTH/SOUTH	2 x 995.6	18.9	0.004017
EAST/WEST	2 x 994.8	18.2	0.003874

Power Consumption: 52.3mA @ +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 No: 2968

SENSOR SERIAL No: T4J62

Velocity response output, Vertical Sensor:

POLES (HZ)	**ZEROS HZ**
$-707.0 \times 10^{-3} \pm j\ 707.0 \times 10^{-3}$	0
$-62.3816 \pm j135.392$	0
-350	
-75	

Normalizing factor at 1 Hz: A = 585.8×10^{6}

Sensor Sensitivity: See Calibration Sheet.

Velocity response output, Horizontal Sensors:

POLES (HZ)	**ZEROS (HZ)**
$-707.0 \times 10^{-3} \pm j\ 707.0 \times 10^{-3}$	0
$-62.3816 \pm j135.392$	0
-350	
-75	

Normalizing factor at 1 Hz: A = 585.8×10^{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 2π. The normalizing factor A should also be recalculated.