

CMG-40T-1 CALIBRATION SHEET

WORKS ORDER: 2968 DATE: 28-Sep-2005

SERIAL No: T4J58 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 999.2	19.3	0.004114
NORTH/SOUTH	2 x 1010.6	18.1	0.003860
EAST/WEST	2 x 993.7	18.0	0.003826

Power Consumption: 51.5mA @ +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

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SENSOR SERIAL No: T4J58

Velocity response output, Vertical Sensor:

<u>POLES (HZ)</u>	<u>ZEROS HZ</u>
$-707.0 \times 10^{-3} \pm j 707.0 \times 10^{-3}$	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:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-707.0 \times 10^{-3} \pm j 707.0 \times 10^{-3}$	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.