

CMG-3ESP CALIBRATION SHEET

WORKS ORDER: 0828 DATE: 16/11/98
SERIAL NUMBER: T3679 TESTED BY: SDG

	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 2967	828	0.01761
NORTH/SOUTH	2 x 2994	890	0.01893
EAST/WEST	2 x 3004	885	0.01884

Power Consumption: 70 mA @ + 12 V input
Calibration Resistor: 51 K

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 ZERO TABLE

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SENSOR SERIAL NO:T3679

Velocity response output, Vertical Sensor:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-7.07 \times 10^{-3} \pm j 7.07 \times 10^{-3}$	0
$-80.5 \pm j 30.8$	0
	150.5

Normalizing factor at 1 Hz: A = -49.5

Sensor Sensitivity: See Calibration Sheet.

Velocity response output, Horizontal Sensors:

<u>POLES (HZ)</u>	<u>ZEROS (HZ)</u>
$-7.07 \times 10^{-3} \pm j 7.07 \times 10^{-3}$	0
$-80.5 \pm j 30.8$	0
	150.5

Normalizing factor at 1 Hz: A = -49.5

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.