# CMG-40T CALIBRATION SHEET

| | | | |
|---|---|---|---|
| WORKS ORDER: | 4584 | DATE: | 01/08/08 |
| SERIAL NUMBER: | T4P98 | TESTED BY: | S. Goddard |

| | Velocity Output V/m/s | Mass Position Output (Acceleration output) $V/m/s^2$ | Feedback Coil Constant $Amp/m/s^2$ |
|---|---|---|---|
| VERTICAL | 1003 | 15 | 0.004559 |
| NORTH/SOUTH | 987 | 15 | 0.004330 |
| EAST/WEST | 1010 | 14 | 0.004166 |

Power Consumption: 50mA @ +5V 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: 4584

## SENSOR SERIAL NO: T4P98

Velocity response output, Vertical Sensor:

| POLES (HZ) | ZEROS HZ |
|---|---|
| $-23.65 \times 10^{-3} \pm j23.65 \times 10^{-3}$ | 0 |
| -180 | 0 |
| -160 | |
| -80 | |

Normalizing factor at 1 Hz: A = 2304000

Sensor Sensitivity: See Calibration Sheet.

Velocity response output, Horizontal Sensors:

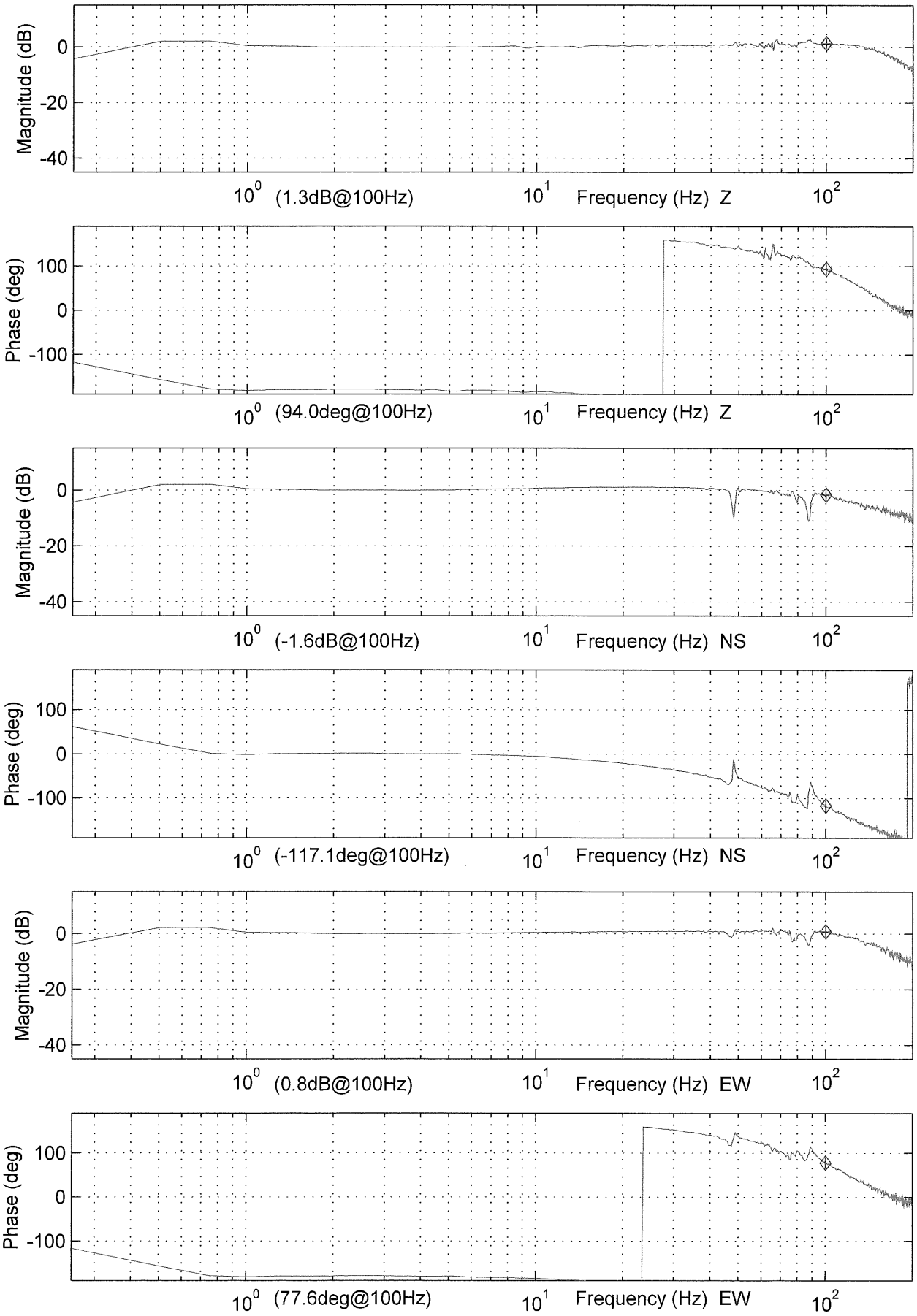
| POLES (HZ) | ZEROS (HZ) |
|---|---|
| $-23.65 \times 10^{-3} \pm j23.65 \times 10^{-3}$ | 0 |
| -180 | 0 |
| -160 | |
| -80 | |

Normalizing factor at 1 Hz: A = 2304000

Sensor Sensitivity: See Calibration Sheet.

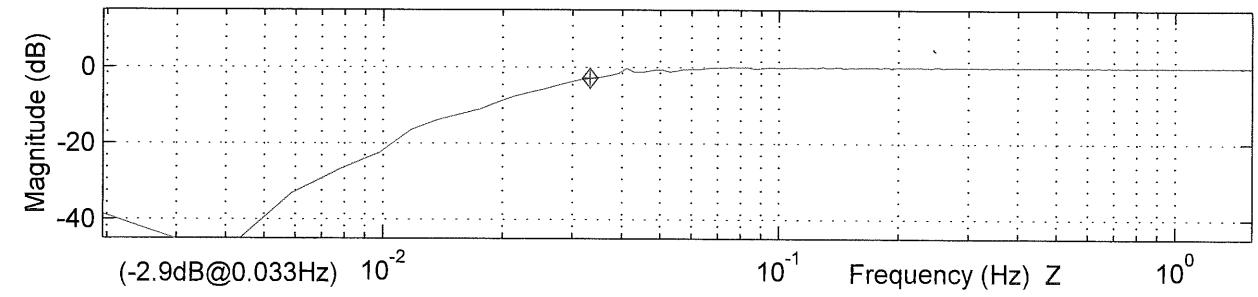
**NOTE:** The above poles and zeros apply to the vertical and the horizontal sensors and are given in units of Hz. To convert to Radian/sec multiply each pole or zero with $2\pi$. The normalizing factor A should also be recalculated.

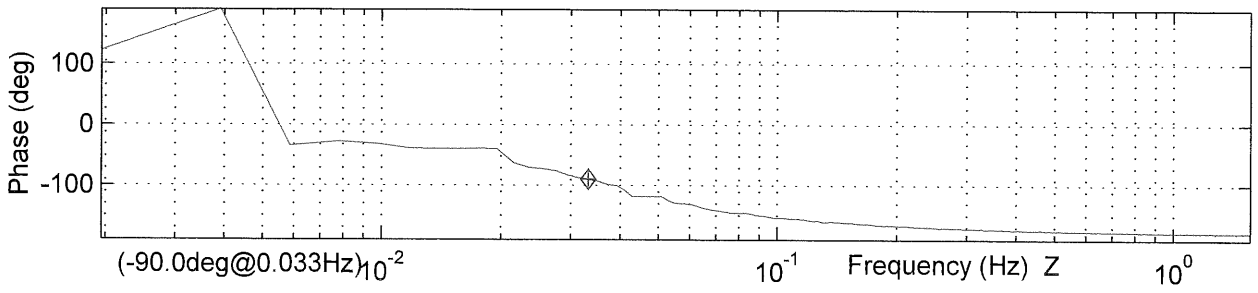
# *Normalized Frequency Response for :T4P98, 4584*

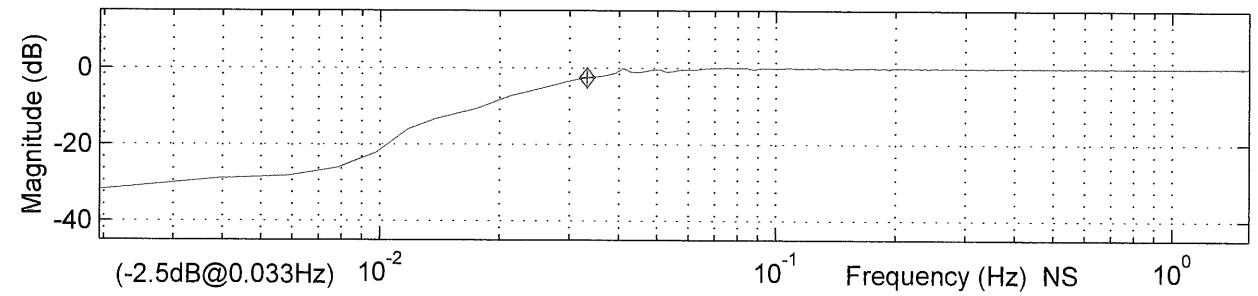


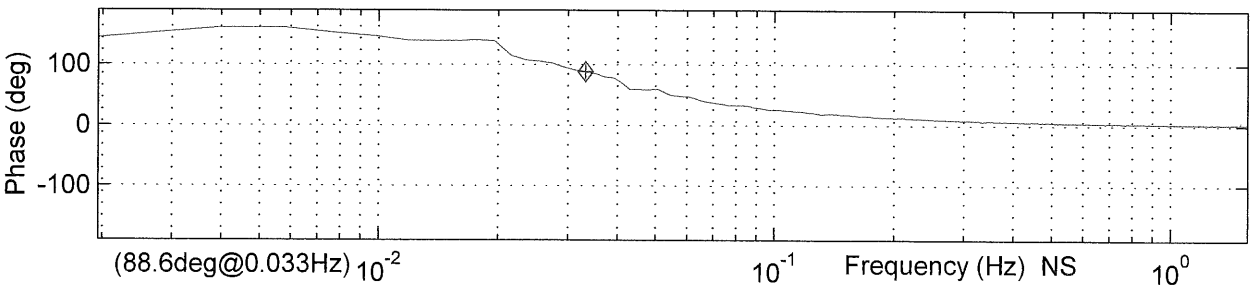

04-Aug-2008

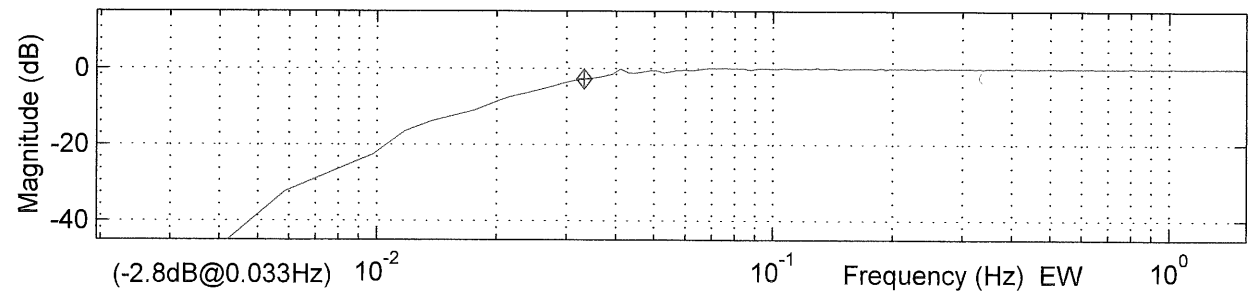
# *Normalized Frequency Response for :T4P98, 4584*

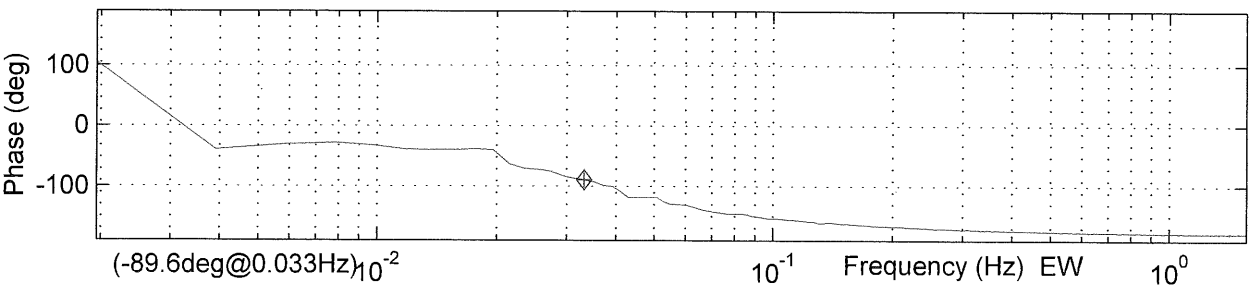



04-Aug-2008