DM24 CALIBRATION

WORKS ORDER: 4318

DIGITISER SERIAL NUMBER: C789
SENSOR SERIAL NUMBER: T35365

SYSTEM ID: 4318
UNIT ID: 5365
OUTPUT DATA FORMAT: GCF
BAUD RATE: 38400

BOOTLOADER: BOOT1030.IMG
DSP SOFTWARE: DSPSI1060.BIN
SYSTEM: ARMFWDM103b70.IMG

VELOCITY CHANNELS

Channel:	5365Z2	Vertical	3.210 µV/Count	552.499E-12 M/S/Count
	5365N2	North/South	3.195 µV/Count	531.800E-12 M/S/Count
	5365E2	East/West	3.191 µV/Count	534.683E-12 M/S/Count

MASS POSITION CHANNELS

Sample Rate: 4 samples/sec (Default)

Channel:	5365M8	Vertical	306.07 µV/Count	365.239E-9 M/S^2/Count
	5365M9	North/South	306.33 µV/Count	350.095E-9 M/S^2/Count
	5365MA	East/West	306.38 µV/Count	351.355E-9 M/S^2/Count

Sample Rate: 1 samples/sec

Channel:	5365M8	Vertical	1.20 µV/Count	1.427E-9 M/S^2/Count
	5365M9	North/South	1.20 µV/Count	1.368E-9 M/S^2/Count
	5365MA	East/West	1.20 µV/Count	1.372E-9 M/S^2/Count

CAL SIGNAL MONITOR

5365X2 / 5365C2 3.209 µV/Count

GPS RECEIVER

PWM: 8000 Counts
At Temperature Reading: 23°C

POWER CONSUMPTION

Digitiser Power Consumption	80mA @ 12v
GPS Power Consumption	28mA @ 12v

CMG-3ESP CALIBRATION SHEET

WORKS ORDER:	4318	DATE:	19-Feb-2008
SERIAL NUMBER:	T35365	TESTED BY:	P. Yarham

	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 2905	838	0.01782
NORTH/SOUTH	2 x 3004	875	0.01861
EAST/WEST	2 x 2984	872	0.01856

Power Consumption: 65mA @ +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: 4318

SENSOR SERIAL NO: T35365

Velocity response output, Vertical Sensor:

POLES (HZ)	**ZEROS HZ**
$-7.07 \times 10^{-3} \pm j7.07 \times 10^{-3}$	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)**
$-7.07 \times 10^{-3} \pm j7.07 \times 10^{-3}$	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 2π. The normalizing factor A should also be recalculated.