

TEST AND CALIBRATION DATA

Short Period OBS System

Serial No. T6J77/A4336/5173

DESIGNED AND MANUFACTURED BY:

GÜRALP SYSTEMS LIMITED
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DM24 CALIBRATION

WORKS ORDER: 13072 DIGITISER SERIAL NUMBER: A4336

SYSTEM ID: 13072 CPLD: A0.E1

UNIT ID: 4336 BOOTLOADER: MK3BOOT213.IMG

OUTPUT DATA FORMAT: GCF DSP SOFTWARE: DSP1090.BIN

BAUD RATE: 38400 SYSTEM: DMNET106b57d.IMG

VELOCITY CHANNELS

Channel: 4336Z2 Vertical 2.872 µV/Count

4336N2 North/South 2.873 μ V/Count 4336E2 East/West 2.874 μ V/Count

MASS POSITION CHANNELS

Sample Rate: 4 samples/sec (Default)

Channel: 4336M8 Vertical 291.022 µV/Count

4336M9 North/South 290.358 μV/Count 4336MA East/West 290.166 μV/Count

Sample Rate: 1 samples/sec

Channel: 4336M8 Vertical 2.274 µV/Count

4336M9 North/South 2.268 μ V/Count 4336MA East/West 2.267 μ V/Count

CAL SIGNAL MONITOR

4336X2 2.873 μV/Count

4336C2 0.424 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-6TF CALIBRATION SHEET

WORKS ORDER:

13072

DATE:

18-Mar-2013

SERIAL NUMBER:

T6J77

TESTED BY:

S. Goddard

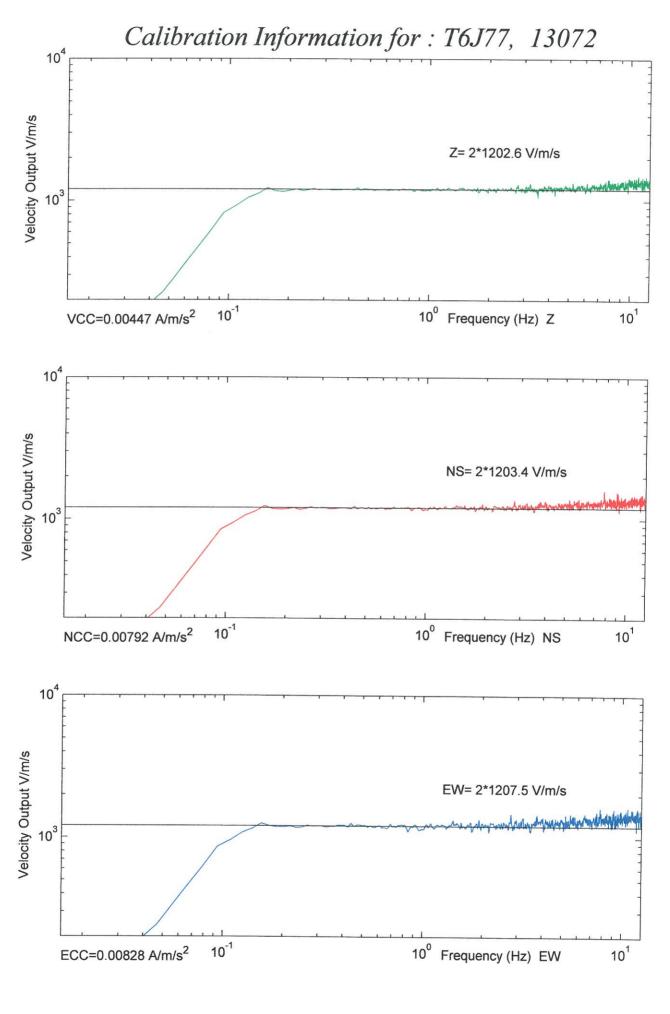
	Velocity Output V/m/s (Differential)	Mass Position Output (Acceleration output) V/m/s ²	Feedback Coil Constant Amp/m/s ²
VERTICAL	2 x 1203	447	0.00447
NORTH/SOUTH	2 x 1203	404	0.00792
EAST/WEST	2 x 1208	422	0.00828

Power Consumption:

20mA @ +12V input

Calibration Resistor:

51000



Normalized Frequency Response for: T6J77, 13072 Magnitude (dB) -20 -40 10⁻¹ 10⁰ (-2.9dB@0.102Hz) Frequency (Hz) Z 100 Phase (deg) 0 -100 10⁻² (87.7deg@0.102Hz) 10⁻¹ Frequency (Hz) Z Magnitude (dB) -20 -40 10⁻¹ 10⁻² (-2.6dB@0.102Hz) 10⁰ Frequency (Hz) NS Phase (deg) 0 01-001-10⁻¹ 10⁻² (86.1deg@0.102Hz) 10⁰ Frequency (Hz) NS Magnitude (dB) -20 10⁻² (-2.4dB@0.102Hz) 10⁻¹ 10⁰ Frequency (Hz) EW Phase (deg) 100 -100

10⁻² (86.0deg@0.102Hz)

10⁻¹

Frequency (Hz) EW

10⁰

Normalized Frequency Response for: T6J77, 13072 Magnitude (dB) -20 -40 10⁰ 10¹Frequency (Hz) Z (-3.9dB@0.500Hz) Dhase (deg) 0 -100 10⁻¹ (90.4deg@0.500Hz) 10⁰ 10¹Frequency (Hz) Z Magnitude (dB) -20 -40 10⁰ 10⁻¹ (-3.7dB@0.500Hz) 10¹Frequency (Hz) NS Dhase (deg) 0 001-10⁻¹ (87.4deg@0.500Hz) 10⁰ 101Frequency (Hz) NS Magnitude (dB) -20 10⁻¹ (-3.9dB@0.500Hz) 10⁰ 10¹Frequency (Hz) EW Phase (deg) 100 -100

10⁰

10⁻¹ (87.2deg@0.500Hz)

10¹Frequency (Hz) EW

Normalized Frequency Response for: T6J77, 13072 Magnitude (dB) -20 -40 10⁰ 10⁻¹ (-3.6dB@1.000Hz) 10¹Frequency (Hz) Z Phase (deg) 0 01-10⁻¹ (90.6deg@1.000Hz) 10⁰ 10¹Frequency (Hz) Z Magnitude (dB) -20 -40 10⁻¹ (-2.6dB@1.000Hz) 10⁰ 10¹Frequency (Hz) NS Phase (deg) 0 01-10⁻¹ (87.4deg@1.000Hz) 10⁰ 101Frequency (Hz) NS Magnitude (dB) -20 10⁻¹ (-3.3dB@1.000Hz) 10⁰ 10¹Frequency (Hz) EW Phase (deg) 100 -100

10⁰

10⁻¹ (87.4deg@1.000Hz)

10¹Frequency (Hz) EW

Normalized Frequency Response for: T6J77, 13072 Magnitude (dB) -20 -40 10⁰ (-6.3dB@100Hz) 10² Frequency (Hz) Z Phase (deg) 0 01-10⁰ (-131.9deg@100Hz) 10¹ Frequency (Hz) Z 10² Magnitude (dB) -20 -40 10⁰ (-1.4dB@100Hz) 10² Frequency (Hz) NS Phase (deg) 0 01-10⁰ (-55.0deg@100Hz) 10¹ Frequency (Hz) NS 10² Magnitude (dB) -20 10⁰ (-1.1dB@100Hz) 10² 10¹ Frequency (Hz) EW Phase (deg) 100 0 -100 10⁰ (-101.2deg@100Hz) 10¹ Frequency (Hz) EW 10²