

TEST AND CALIBRATION DATA

Short Period OBS System

Serial No. T6J71/A4333/5167

DESIGNED AND MANUFACTURED BY:

GÜRALP SYSTEMS LIMITED
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DM24 CALIBRATION

WORKS ORDER: 13072 DIGITISER SERIAL NUMBER: A4333

SYSTEM ID: 13072 CPLD: A0.E1

UNIT ID: 4333 BOOTLOADER: MK3BOOT213.IMG

OUTPUT DATA FORMAT: GCF DSP SOFTWARE: DSP1090.BIN

BAUD RATE: 38400 SYSTEM: DMNET106b57d.IMG

VELOCITY CHANNELS

Channel: 4333Z2 Vertical 2.873 µV/Count

4333N2 North/South 2.874 μ V/Count 4333E2 East/West 2.875 μ V/Count

MASS POSITION CHANNELS

Sample Rate: 4 samples/sec (Default)

Channel: 4333M8 Vertical 290.658 µV/Count

4333M9 North/South 290.081 μV/Count 4333MA East/West 290.487 μV/Count

Sample Rate: 1 samples/sec

Channel: 4333M8 Vertical 2.271 µV/Count

4333M9 North/South 2.266 μV/Count 4333MA East/West 2.269 μV/Count

CAL SIGNAL MONITOR

4333X2 2.873 μV/Count

4333C2 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

AUXILIARY CHANNELS

Sample Rate. T Samples/See (Default)	Sample Rate:	4 samples/sec	(Default)
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Channel:	4333MB	291.431 μV/Count

4333MC 290.466 μV/Count 4333MD 290.337 μV/Count 4333ME 290.508 μV/Count

4333MF 289.294 μV/Count

Sample Rate: 1 samples/sec

Channel: 4333MB 2.277 μ V/Count

4333MC
 4333MD
 4333ME
 4333ME
 4333MF
 2.269 μV/Count
 2.268 μV/Count
 2.270 μV/Count
 2.260 μV/Count

CMG-6TF CALIBRATION SHEET

WORKS ORDER:

13072

DATE:

14-Mar-2013

SERIAL NUMBER:

T6J71

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 1201	433	0.00433
NORTH/SOUTH	2 x 1202	429	0.00841
EAST/WEST	2 x 1203	425	0.00833

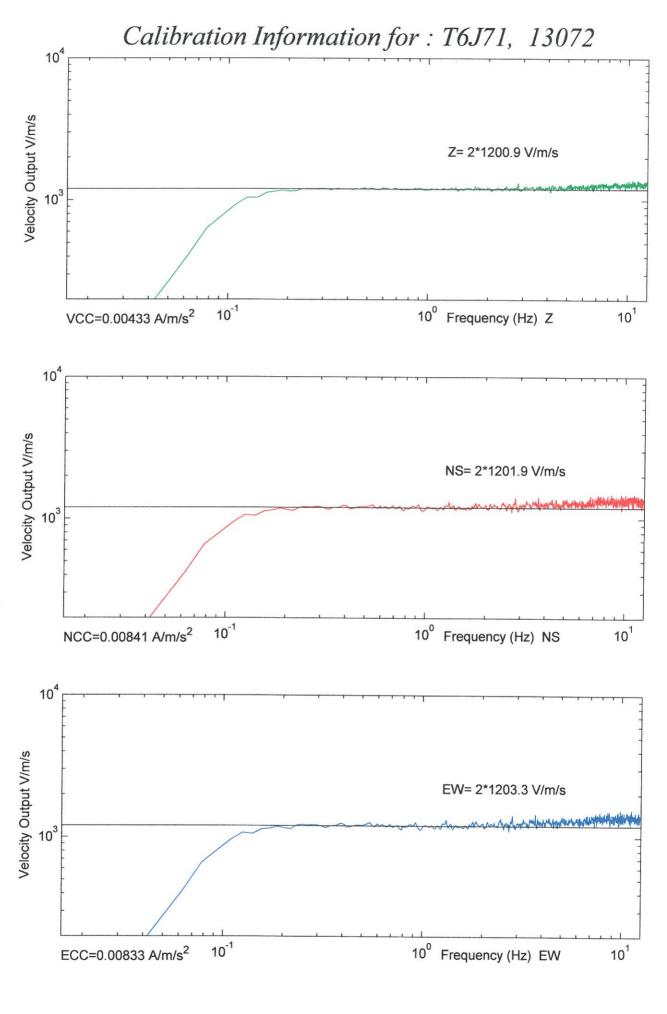
Power Consumption:

20mA @ +12V input

Calibration Resistor:

51000

NOTE: A factor of 2×2 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.



Normalized Frequency Response for: T6J71, 13072 Magnitude (dB) 0 -20 -40 10⁻¹ (-2.7dB@0.102Hz) Frequency (Hz) Z Phase (deg) 0 -100 10⁻² (88.5deg@0.102Hz) 10⁻¹ Frequency (Hz) Z Magnitude (dB) -40 10⁻¹ 10⁰ (-2.6dB@0.102Hz) Frequency (Hz) NS Phase (deg) 100 -100 10⁻² (86.4deg@0.102Hz) 10⁰ 10⁻¹ Frequency (Hz) NS Magnitude (dB) -20 10⁻² (-2.6dB@0.102Hz) 10⁰ 10⁻¹ Frequency (Hz) EW Phase (deg) 100 -100 10⁻² (86.8deg@0.102Hz) 10⁻¹ 10⁰ Frequency (Hz) EW

Normalized Frequency Response for: T6J71, 13072 Magnitude (dB) -20 -40 10⁰ (-3.4dB@0.500Hz) 10¹Frequency (Hz) Z 10⁻¹ (88.8deg@0.500Hz) 10⁰ 10¹Frequency (Hz) Z Magnitude (dB) 0 10⁻¹ (-3.1dB@0.500Hz) 10⁰ 10¹Frequency (Hz) NS Phase (deg) 100 -100 10⁻¹ (88.0deg@0.500Hz) 10⁰ 101Frequency (Hz) NS Magnitude (dB) -20 10⁻¹ (-3.2dB@0.500Hz) 10⁰ 10¹Frequency (Hz) EW Phase (deg) 100 -100 10⁻¹ (87.9deg@0.500Hz) 10⁰ 10¹Frequency (Hz) EW

Normalized Frequency Response for: T6J71, 13072 Magnitude (dB) 0 -20 -40 10⁻¹ (-3.2dB@1.000Hz) 10⁰ 10¹Frequency (Hz) Z 100 Phase (deg) 0 -100 10⁻¹ (89.0deg@1.000Hz) 10⁰ 10¹Frequency (Hz) Z Magnitude (dB) -40 10⁻¹ (-2.8dB@1.000Hz) 10⁰ 10¹Frequency (Hz) NS Phase (deg) 100 -100 10⁻¹ (86.7deg@1.000Hz) 10⁰ 101Frequency (Hz) NS Magnitude (dB) -20 10⁻¹ (-3.0dB@1.000Hz) 10⁰ 10¹Frequency (Hz) EW Phase (deg) 100 -100 10⁻¹ (87.1deg@1.000Hz) 10⁰ 10¹Frequency (Hz) EW

