

ADCP SIIM test.txt  
ADCP functional testing through SIIM and node wiring  
12/13/2006 9:57AM PST

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 16.21  
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>?

Available Menus:

DEPLOY? ----- Deployment Commands

SYSTEM? ----- System Control, Data Recovery and Testing Commands

>pa

#### PRE-DEPLOYMENT TESTS

##### CPU TESTS:

RTC.....PASS

RAM.....PASS

ROM.....PASS

##### RECORDER TESTS:

PC Card #0.....NOT DETECTED

PC Card #1.....DETECTED

Card Detect.....PASS

Communication.....PASS

DOS Structure.....PASS

Sector Test (short).....PASS

##### DSP TESTS:

Timing RAM.....PASS

Demod RAM.....PASS

Demod REG.....PASS

FIFOs.....PASS

##### SYSTEM TESTS:

XILINX Interrupts... IRQ3 IRQ3 IRQ3 ...PASS

Receive Loop-Back.....PASS

Wide Bandwidth.....\*\*\*FAIL\*\*\*

Narrow Bandwidth.....PASS

RSSI Filter.....PASS

Transmit.....PASS

##### SENSOR TESTS:

H/W Operation.....\*\*\*FAIL\*\*\*

>ps0

ADCP SIIM test.txt

Instrument S/N: 5010  
Frequency: 307200 HZ  
Configuration: 4 BEAM, JANUS  
Match Layer: 10  
Beam Angle: 20 DEGREES  
Beam Pattern: CONVEX  
Orientation: UP  
Sensor(s): HEADING TILT 1 TILT 2 DEPTH TEMPERATURE PRESSURE

Pressure Sens Coefficients:  
c3 = +1.460894E-13  
c2 = +1.487533E-08  
c1 = +5.393192E-02  
Offset = -6.277608E+00

Temp Sens Offset: -0.01 degrees C

CPU Firmware: 16.21 [0]  
Boot Code Ver: Required: 1.13 Actual: 1.13

DEM0D #1 Ver: ad48, Type: 1f  
DEM0D #2 Ver: ad48, Type: 1f  
PWRTIMG Ver: 85d3, Type: 5

Board Serial Number Data:  
5A 00 00 03 87 C8 34 09 PI0727-30  
E5 00 00 03 87 A1 11 09 CPU727-2000-00J  
D8 00 00 03 87 97 9B 09 REC727-1000-04E  
1B 00 00 03 87 C4 4F 09 DSP727-2001-04G

>ps1  
6 ÉA5 (xd° @ Ð ``}=A Ž 21â ‡i ŷW  
>ps2

B€

9+Xö '0öăô#ŸF°Ø>5Sŷŷŷ

# ADCP SIIM test.txt

9+X >ps3  
Beam Width: 3.7 degrees

| Beam | Elevation | Azimuth |
|------|-----------|---------|
| 1    | -69.97    | 270.02  |
| 2    | -69.89    | 90.01   |
| 3    | -69.93    | 359.99  |
| 4    | -70.00    | 179.99  |

Beam Directional Matrix (Down):

|         |         |        |         |
|---------|---------|--------|---------|
| 0.3425  | -0.0001 | 0.9395 | 0.2429  |
| -0.3438 | 0.0001  | 0.9391 | 0.2420  |
| 0.0001  | -0.3433 | 0.9393 | -0.2420 |
| -0.0001 | 0.3420  | 0.9397 | -0.2429 |

Instrument Transformation Matrix (Down): Q14:



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beam's face.

If a beam does not PASS the test, send any character to the ADCP to automatically select the next beam.

Collecting Statistical Data...

37 39 41 36

Rub Beam 1 = PASS

Rub Beam 2 = PASS

Rub Beam 3 = PASS

Rub Beam 4 = PASS

>pc2

Press any key to quit sensor display ...

| Heading | Pitch   | Roll    | Up/Down | Attitude Temp | Ambient Temp | PRESSURE |
|---------|---------|---------|---------|---------------|--------------|----------|
| 122.770 | -27.680 | -28.460 | Up      | 22.210C       | 21.530C      | -2.9 kPa |

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