

Harbor/Sea Acceptance Test Results



The above tests confirm the ADCP is operating according to factory specifications and ready for WATER PROFILE RANGE TESTING.

RD Instruments Field Service Engineer Signature

8/26/2015

Date

Customer Representative Signature

8/26/2015

Date

DANIEL A. LOPEZ SALINAS

Customer Representative Printed Name

TEST WAIVED

RDI – initials ____ Customer Representative initials ____

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5. Profiling Range

Platform Speed	Last Valid Bin Number	Range to Last Bin	Average RSSI Value at Last Bin	Date and Time of Measurement
DRIFTING	36	879	9.5	25/08/2015/9:00 AM
DRIFTING	40	975	8.5	25/08/15-9:08 PM GMT
3 KNOTS	36	879	9.5	" - 9:22 PM "
6 KNOTS	40	975	16.5	" - 9:35 PM "
MAX	40	975	15.75	" - 9:48 PM "

The above tests confirm the ADCP is operating according to factory specifications and ready for **BOTTOM TRACKING TESTING.**



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8/26/2015

Date



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6. Bottom Track Range

Before testing the Bottom Track capabilities the Water Profiling Range Test must be performed. Through the results of this test, determine the platform speed in which the range to the last valid bin obtained the specified nominal range of the OS ADCP frequency being used.

Record the velocity here 8 knots.

If it is not possible to reach the specified nominal range, determine the speed at which it allowed the best range possible. Calculate the percentage of the nominal range that was obtained by the system.

Record the velocity here 8 knots.

Record the percentage of range obtained here 100%.
(actual range/specified range)*100

Viewing the bottom track velocity data record the maximum and minimum bottom track depths.

Beam Number	Minimum Depth (meters)	Maximum Depth (meters)
Beam 1	30	1721
Beam 2	31	1710
Beam 3	30	1713
Beam 4	32	1688

The above tests confirm the ADCP is operating according to factory specifications and ready for **RINGING TESTING**.

[Signature] 8/26/2015
RD Instruments Field Service Engineer Signature Date

[Signature] 8/25/2015
Customer Representative Signature Date

DANIEL H. LOPEZ SALINAS
Customer Representative Printed Name

TEST WAIVED RDI - initials _____ Customer Representative initials _____

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7. Ringing

Total Blanking Period Required*	16M
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*The total blanking period is typical blanking period plus the increased blanking period required.

The above value should be used to change both the WF and NF (for the OS ADCP only) commands in all configuration files for the ADCP.

The above tests confirm the ADCP is operating according to factory specifications and ready for **TRANSDUCER ALIGNMENT TESTING.**


RD Instruments Field Service Engineer Signature 8/26/2015
Date


Customer Representative Signature 8/25/2015
Date

DANIEL H. LOYA SALINAS
Customer Representative Printed Name

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8. Transducer Alignment

Misalignment Angle Required	43.2°	Degrees
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Record the results of the verification of the Transducer Alignment with Bottom Track Reference:

Alignment Verification	PASS	Pass/Fail
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Record the results of this portion of the Transducer Alignment with Navigation Reference:

Navigation Verification	PASS	Pass/Fail
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8/26/2015
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9. Sea Acceptance Summary

TEST	RESULT: Interference Found Yes/No
Interference	YES
<p>This test only states whether interference is present. If interference is found then the equipment causing the interference must not be operated with the ADCP or user must synchronize the ADCP and the other device so that interference is avoided. Interference does not result in a failure of this Sea Acceptance Test. This test is for operational information only.</p>	

TEST	RESULT: Range Pass/Fail
Water Profile Range	PASS
<p>This test determines which speed the ADCP will provide the highest profiling range, and the maximum profiling range itself. Ship speed, backscatter in the water column, ship motion, and other environmental factors will affect the range of the system. The ADCP is considered to be passing this test if it either meets the profiling range specification and/or the range is reasonable given the existing conditions.</p>	

TEST	RESULT: Range Pass/Fail
Bottom Track Range	PASS
<p>This test determines the minimum and maximum bottom track range. Ship speed, backscatter in the water column, ship motion, and other environmental factors will affect the range of the system. The ADCP is considered to be passing this test if it either meets the maximum bottom track range specification and/or the range is reasonable given the existing conditions.</p>	

TEST	RESULT: Blanking Distance
Ringing	16m
<p>This test determines the minimum blanking required. The results of this test do not determine a pass/fail condition but only the minimum setup requirements for proper operation.</p>	

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TEST	RESULT: Transducer Alignment Angle
Transducer Alignment	43.2°

This test determines the transducer alignment angle required. The results of this test do not determine a pass/fail condition but only the setup requirements for proper operation.

The above tests confirm the ADCP is ready for deployment.

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RD Instruments Addendum

GPS ON BOARD DOES NOT PROVIDE GGA output, RECOMMEND
OBTAINING GPS WITH THIS OUTPUT FOR OPTIMUM PERFORMANCE.
ALSO, SYSTEM POWER DOES NOT INCLUDE UPS. RECOMMEND
OBTAINING UPS FOR FILTERING AND POWER BACKUP.


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