SALT SPRAY TEST REPORT

Company: Alltek Marine Electronics Corp.
Address: 7F, No. 605, Ruei Guang Rd., Neihu Dist., Taipei 114, Taiwan, R.O.C.
Sample Name: AIS Class B Transponder
Date Received: MAR 15, 2013
Date Tested: MAR 15, 2013 – APR 12, 2013

TESTING LABORATORY IS ACCREDITED BY:
IEC/IECQ 17025 certificate of independent test laboratory approval
Certificate No.: 1.72.0031
ISO 17025 accredited in respect of laboratory is approved by TAF
Certificate No.: L0835-120910
ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

WE HEREBY CERTIFY THAT:
The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Engineer</td>
<td>Gin Lu</td>
<td>Oct 30, 2013</td>
</tr>
<tr>
<td>Manager</td>
<td>Longson Lin</td>
<td>Oct 30, 2013</td>
</tr>
</tbody>
</table>

NOTE:
1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.
REVISIONS HISTORY

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Issue Date</th>
<th>Revisions</th>
<th>Effect page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>April 24, 2013</td>
<td>Initial issue</td>
<td>All</td>
</tr>
<tr>
<td>B</td>
<td>April 25, 2013</td>
<td>Correct typo at Section 1.1</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>June 25, 2013</td>
<td>Modify software version at Section 1.1</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>July 09, 2013</td>
<td>Modify Multi-list information at Section 1.1</td>
<td>2</td>
</tr>
</tbody>
</table>
| E    | October 30, 2013 | 1) Add Revisions History  
2) Add edition number and publish year at Section 2.3 | 3           |
TABLE OF CONTENTS

1. GENERAL INFORMATION
   1.1 DESCRIPTION OF UNIT ......................................................... 2
   1.2 UNIT OPERATING CONDITION ................................................... 2

2. SALT SPRAY TEST
   2.1 TEST EQUIPMENT ........................................................................ 3
   2.2 LABORATORY AMBIENCE CONDITION .......................................... 3
   2.3 REFERENCE DOCUMENT ................................................................ 3
   2.4 TEST CONDITION .......................................................................... 3
   2.5 SUMMARY OF TEST ...................................................................... 3

ATTACHMENTS ...................................................................................... 4
1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT

Manufacturer: Alltek Marine Electronics Corp.
Sample name: AIS Class B Transponder
Model name: CAMINO-108W
Hardware: M-PCB-B108MBV1
Software: V1.2.6
Sample quantity: 1 unit

Multi-list information:

<table>
<thead>
<tr>
<th>Multi-list</th>
<th>Difference within models</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMINO-108W</td>
<td>AIS Class B Transponder with Wi-Fi</td>
</tr>
<tr>
<td>CAMINO-108</td>
<td>AIS Class B Transponder</td>
</tr>
</tbody>
</table>

Note: This information is provided by the Alltek Marine Electronics Corp.

1.2 UNIT OPERATING CONDITION:

![Diagram of unit operating condition]

<table>
<thead>
<tr>
<th>EUT Cable Type</th>
<th>Signal Cable Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VHF cable</td>
<td>Shielded, 10m</td>
</tr>
<tr>
<td>B GPS cable</td>
<td>Shielded, 10m</td>
</tr>
<tr>
<td>C Mini USB to USB cable</td>
<td>Shielded, 1.8m</td>
</tr>
<tr>
<td>D NMEA 2000 Cable</td>
<td>Shielded, 0.6m</td>
</tr>
<tr>
<td>E Power/Data cable</td>
<td>Shielded, 1.4m</td>
</tr>
</tbody>
</table>
2. SALT SPRAY TEST

2.1 TEST EQUIPMENT

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Number</th>
<th>Calibration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vötsch VSC/KWT 1000</td>
<td>59566059630010</td>
<td>NOV. 12, 2012</td>
</tr>
<tr>
<td>THERMOTRON SM-32-7800 (USA)</td>
<td>34381</td>
<td>MAR. 08, 2012</td>
</tr>
</tbody>
</table>

2.2 LABORATORY AMBIENCE CONDITION

Temperature: 23 ± 3 °C
Relative humidity: 55 % ± 3 % (RH)

2.3 REFERENCE DOCUMENT

The test based on IEC 60068-2-52 severity 1 (Second edition 1996-01)

2.4 TEST CONDITION

2.4.1 Salt spray

Units are non-operating.
Test temperature: 35°C
Concentration: Salt solution concentration is at 5 ±1% of salt. The solution is prepared by dissolving 5 ±1% of salt in 95% of distilled water. The measurement is based on the weight of salt.
Salt solution pH value: 6.5 ~ 7.2 at temperature 25°C±2°C
Salt deposit rate: 1~2 mls/80 cm²/hr

2.4.2 Temp./Humidity storage

Place the unit into the temperature chamber
Test temperature storage: 40°C
Test Humidity storage: 93% (RH)
Test cycle: Dwell for 2 hours at the salt spray; Dwell for 6 days and 22 hours at the humidity storage
Number of cycles: 4 cycles

2.5 SUMMARY OF TEST

After testing, visual inspection showed corrosion trace on the unit, but unit function was normal.
Attachment 1: Photo of units before salt spray test
Attachment 2 : Photo of salt spray test setup

Salt spray

Temp./Humidity storage
Attachment 3: Photo of units after salt spray test

Function was normal
Unit appearance

After testing (No cleaning)

1 cycle
| Unit appearance |
|-----------------|----------------|
| After testing (No cleaning) | 2 cycles |

![Image of unit appearance after testing (No cleaning)](image-url)
### Unit appearance

<table>
<thead>
<tr>
<th>After testing (No cleaning)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cycles</td>
</tr>
</tbody>
</table>

![Image of unit appearance after testing (No cleaning) with 2 cycles]
<table>
<thead>
<tr>
<th>Unit appearance</th>
<th>After testing (No cleaning)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 cycles</td>
<td></td>
</tr>
</tbody>
</table>

![Images of unit appearance after testing (No cleaning)](image-url)
Unit appearance

After testing (No cleaning)

3 cycles
Unit appearance
After testing (No cleaning)

4 cycles
Unit appearance

After testing (No cleaning)

4 cycles
Unit appearance

After cleaning

Showed corrosion trace on the unit
### Unit appearance

<table>
<thead>
<tr>
<th>After cleaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Showed corrosion trace on the unit</td>
</tr>
</tbody>
</table>

![Unit appearance images](image-url)
### Unit appearance

<table>
<thead>
<tr>
<th>After cleaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Showed corrosion trace on the unit</td>
</tr>
</tbody>
</table>

![Image of unit after cleaning showing corrosion trace](image1)

---

![Image of unit without corrosion](image2)
Attachment 4: Graph of temp./humidity storage test