

No.: WDZ1409290916A

(Replace report WDZ1409290916, the original report become invalid)

TEST REPORT

TTS

Sample Name:	VegaAIS
Applicant Name:	Vega Industries Limited
Manufacturer:	Vega Industries Limited
Supplier:	/175
Buver:	779

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Shenzhen Yitong Testing Technology Co., Ltd

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TEST REPORT

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(Replace report WDZ1409290916, the original report become invalid)

Applicant Name: Vega Industries Limited

Address: 21 Heriot Drive, Porirua, New Zealand 5022

Sample Information

Sample Name: VegaAIS

Sample No.: WZH1408270916

Sample Model:

Sample Size: $245 \text{mm} (\text{dia.}) \times 130 \text{mm} (\text{H})$

Sample Weight: 1.6kg Sample Quantity: 1 PC Sample Description: Normal

Manufacturer: Vega Industries Limited

Test Information

Test Items: Dry Heat, Damp Heat, Low Temperature, Vibration Test,

Rain and Spray, Safety Precautions

Receive Date: Aug 26, 2014

Testing Date: Sep 15, 2014 to Sep 24, 2014

Preconditioning:

Test Result

Please refer to page 2.

Checked: Jamolon

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Test Result

Test Items	Criterion	Test Result	Conclusion
-75	AIS Watchmate Receiver	Meet the	
	receives 1 time per minute.	requirement.	_ 7
Dry Heat	The MMSI number by the	77	Pass
	VegaAIS unit is	6	
	"995121021".	Meet the	Pass
	The peak to peak		Pass
Dry Hest	amplitude of the signal is	requirement.	
rT5 '	1.5V±0.2V, the		
	transmission duration is	7	13
	36ms±5ms on the	Meet the	Pass
	oscilloscope which is	requirement.	
Damp Heat	triggered coincident with		
	the transmissions seen by		
712	the AIS WatchMate	Meet the	D = = =
	Receiver.	- 1000	Pass
Low Temperature	The AIS unit's LED is	requirement.	
•	green most of the time,		
	however, a red 103 or 101		
-75	code flashed out	Meet the	Pass
Vibration Test	approximately once per	requirement.	775
	minute is accepted.		11-
De la contraction de la contra	No water getting into the	Meet the	Pass
Rain and spray	sample.	requirement.	
	The test stick can not	Meet the	Pass
Safety precautions	contact the hazardous	requirement.	
	parts of the sample.		77

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

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Test Item 1: Dry Hest (Storage Test)

- 1. Test Standard: IEC 60945:2002-2008 Section 4.4 Clause 8.2.1
- 2. Test Equipment:

Equipment Neme	Equipment Medel	Equipment NO	Calibration
Equipment Name	Equipment Model	Equipment NO.	Useful-life
Temperature &	GLH41F	TTS-YO-121	Mary 0 2015
Humidity Chamber	GLUAIL	119-10-171	May 9, 2015

- 3. Test Remark & Notes:
- (1) Place the sample into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature to $70\,^{\circ}\mathrm{C}$ within 60min, keep the sample in that environment for 12h.
- (3) Return the sample to normal environment condition after the test, then check the performance of it.

Test Item 2: Dry Hest (Functional Test)

- 1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.2.2
- 2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

- 3. Test Remark & Notes:
- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature to $55\,^{\circ}\mathrm{C}$ within 60min, keep the sample in that environment for 12h.
- (3) Check the performance of the sample during and after the test, then return the sample to normal environment conditions after the test.

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Test Item 3: Damp Heat (Functional Test)

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.3

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature and humidity to 40° C, 93%RH within 180min, power-off the sample, and keep it in that environment for 10h. Then power-on the sample, and keep it in that environment for 2h.
- (3) Power-off the sample, return it to normal environment conditions, and keep it in that environment for 3h.
- (4) Check the performance of the sample during power-on condition and after the test.

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Test Item 4: Low Temperature (Functional Test)

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.4.2.6

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature and humidity to $-25\,^{\circ}$ C within 60min, power-off the sample, and keep it in that environment for 10h. Then power-on the sample, and keep it in that environment for 2h.
- (3) Power-off the sample, and return it to normal environment condition, and keep it in that environment for 3h.
- (4) Check the performance of the sample during power-on condition and after the test.

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Test Item 5: Vibration Test

- 1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.4.7
- 2. Test Equipment:

Equipment Neme	Equipment Medel	Equipment NO	Calibration
Equipment Name	Equipment Model	Equipment NO.	Useful-life
Vibration System	EM-600F2K-40N120	TTS-YQ-058	Jan 20, 2015
Vibration System	DLS-5000-60	TTS-YQ-072	May 14, 2015

- 3. Test Remark & Notes:
- (1) Fix the sample on the vibration table, the test conditions are as below:

Condition ①: X/Y-axes Vibration

- --- Vibration Frequency: 2Hz to 13.2Hz, Amplitude: 1mm(0-p)
- --- Vibration Frequency: 13.2Hz to 100Hz, Acceleration: 0.7g
- --- Swept Rate: 0.5oct/min
- --- Number of cycle: 1cycle/axis

Condition 2: Z-axis Vibration

- --- Vibration Frequency: 2Hz to 13.2Hz, Amplitude: 1mm(0-p)
- --- Vibration Frequency: 13.2Hz to 100Hz, Acceleration: 0.7g
- --- Swept Rate: 0.5oct/min
- --- Number of cycle: 1cycle/axis
- (2) During the test, monitor the vibration of sample and search for the resonance point, if not, vibrate for 120min at the point with the frequency of 30Hz, acceleration of 0.7g.
- (3) Check the performance of the sample during and after the test.
- (4) The test curves are attached to page 7 to 10.

Note: 1. At Z-axis vibration, the sample can't vibrate at frequency of 2Hz to 5Hz, so it starts at frequency of 5Hz.

2. There is no resonance point at all axes vibration during the test.

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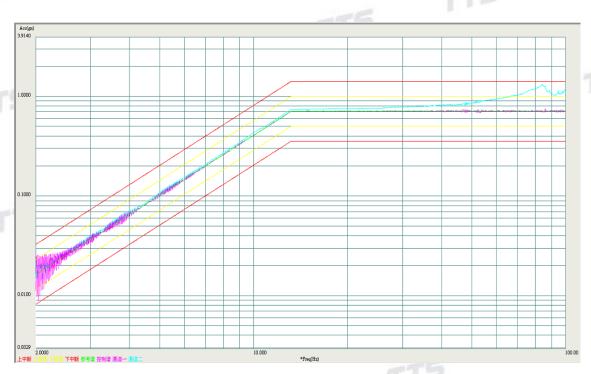


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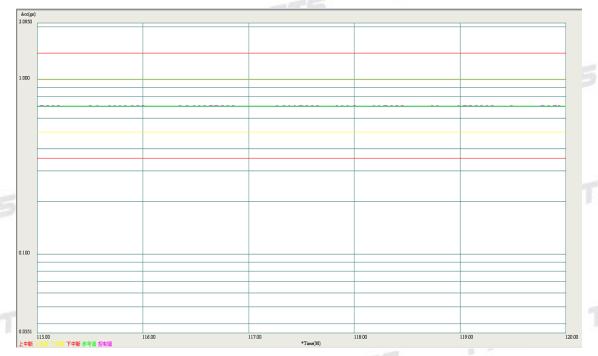
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X-axis Swept Vibration Monitoring Curve



X-axis Fixed Frequency Vibration Curve (30Hz, 0.7g)

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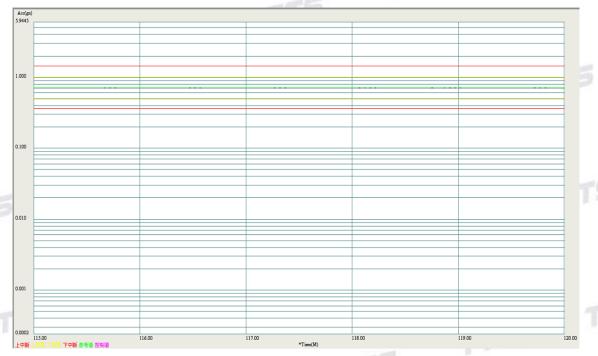
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Y-axis Swept Vibration Monitoring Curve



Y-axis Fixed Frequency Vibration Curve (30Hz, 0.7g)

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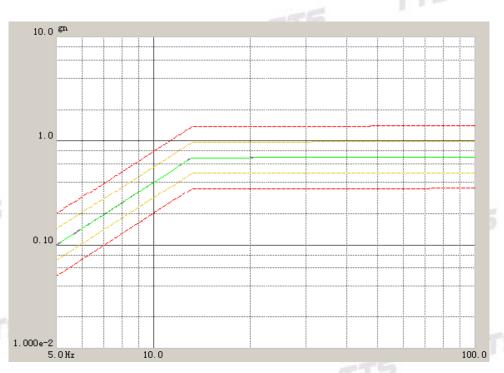
No.: WDZ1409290916A

Date: Sep 29, 2014

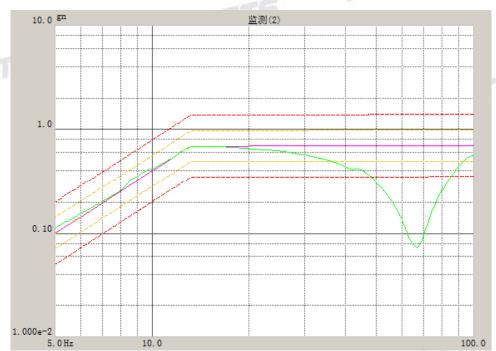
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Z-axis Swept Vibration Curve



Z-axis Swept Vibration Monitoring Curve

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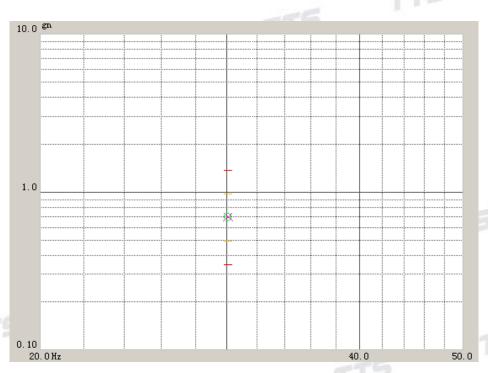
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Z-axis Fixed Frequency Vibration Curve (30Hz, 0.7g)

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Test Item 6: Rain and spray

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.8

2. Test Equipment:

Equipment Name	Equipment Model	Equipment No.	Calibration Useful-life
F300 Inline Flow Meter	F SERIES	TTS-YQ-081	Jul 23, 2015
Nozzle	Φ12.5mm	TTS-YQ-090	Jan 20, 2015

3. Test Remark & Notes:

(1) Use spray nozzle to spray water on the sample in all directions, and the test conditions are as below:

--- Inside nozzle diameter: 12.5mm

--- Water flow: (100±5)L/min

--- Water pressure: Adjusting as the required water flow

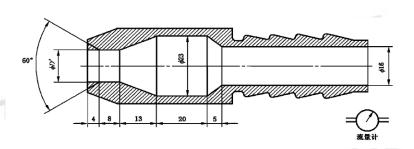
--- Center part of the main flow:

The round which diameter is 120mm and 2.5m away from the spray nozzle

--- Test time: 30min

--- The distance between spray nozzle and surface of the cover: 2.5m to 3m

(2) Check the performance of the sample after the test.



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Test Item 7: Safety precautions

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1. Test Standard: IEC 60945: 2002-2008 Section 4.6 Clause 12.1

2. Test Equipment:

Equipment Name	Equipment Model	Equipment No	Calibration
Equipment Nume		Equipment No.	Useful-life
D Test Joint Stick	FZ-1101-A	TTS-YQ-084	Aug 13, 2015

3. Test Remark & Notes:

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Get the test stick whose diameter is 12mm and length is 80mm close to the gap of the sample, and observe whether it can contact the hazardous parts of the sample.

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Appendix: Test Pictures

Pre-test:



The Sample

Testing:

Dry Hest (Storage Test):



Dry Hest (Functional Test):



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The AIS unit's LED is green



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The AIS unit's LED A red 103 code

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AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



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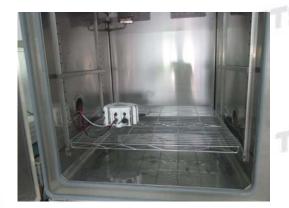


Vega AIS and Vega Beacon DC 12V

Damp Hest (Functional Test):

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The AIS unit's LED is green



The AIS unit's LED A red 103 code



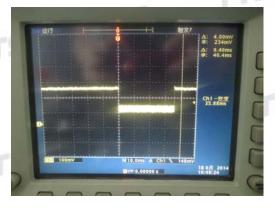
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms

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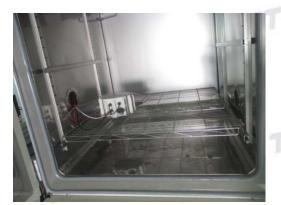
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Vega AIS and Vega Beacon DC 12V

Low Temperature (Functional Test):



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己	受工者	数: 0	019	时间: 0	00016:	50 步	数: 00
No	小时	分钟	温度值	湿度值	T.R	H.R	TS1
1	1	0	-25.0	0.0	1	1	0
2	12	0	-25.0	0.0	0	0	0
3	0	50	25.0	0.0	1	0	0
4	3	0	25.0	0.0	0	0	0
41							

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The AIS unit's LED is green



The AIS unit's LED A red 103 code



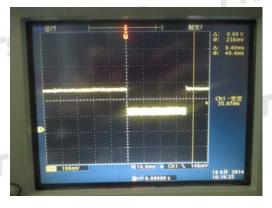
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms

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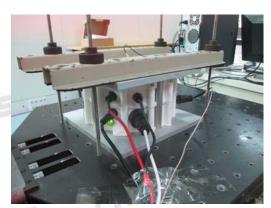


Vega AIS and Vega Beacon DC 12V

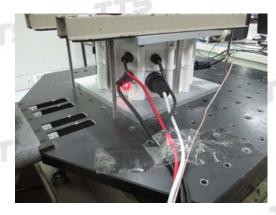
Vibration Test:



X-axis Vibration



The AIS unit's LED is green



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The AIS unit's LED A red 103 code

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Swept Vibration:



AIS WatchMate Receiver DC 12V

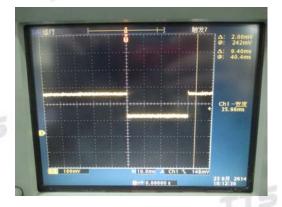


RF Power 5VDC



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The MMSI number is "995121021"



The transmission duration is 36ms±5ms

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Vega AIS and Vega Beacon DC 12V

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Fixed Frequency Vibration:



AIS WatchMate Receiver DC 12V

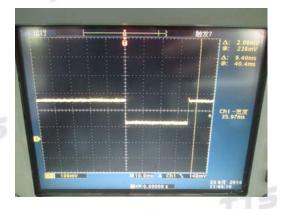


RF Power 5VDC

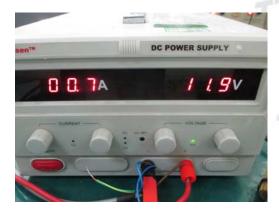


TT5

The MMSI number is "995121021"



The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V

TT5

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TTS

Y-axis Vibration



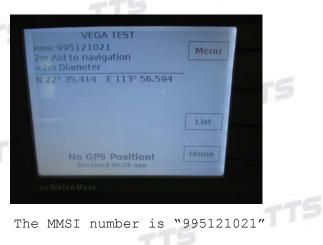
The AIS unit's LED is green Swept Vibration:



The AIS unit's LED A red 103 code



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RF Power 5VDC



The transmission duration is 36ms±5ms

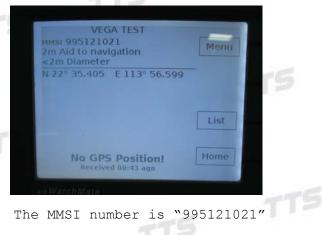


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Fixed Frequency Vibration:



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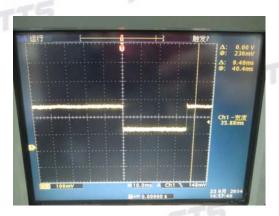


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RF Power 5VDC

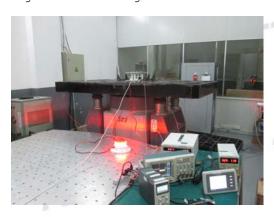


TT5

The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V



Z-axis Vibration

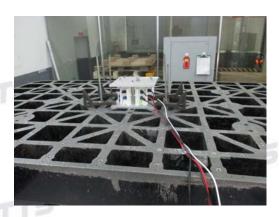
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The AIS unit's LED is green Swept Vibration:



AIS WatchMate Receiver DC 12V



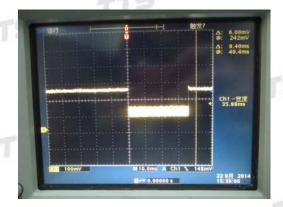
RF Power 5VDC



The AIS unit's LED A red 103 code



The MMSI number is "995121021"



The transmission duration is 36ms±5ms

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Vega AIS and Vega Beacon DC 12V

Fixed Frequency Vibration:

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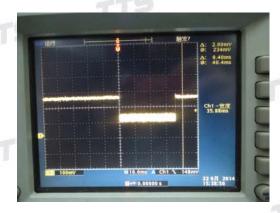
AIS WatchMate Receiver DC 12V



RF Power 5VDC



The MMSI number is "995121021"



The transmission duration is 36ms±5ms

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Vega AIS and Vega Beacon DC 12V

Rain and Spray:



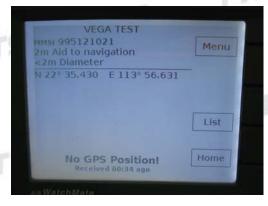


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TT5



The MMSI number is "995121021"

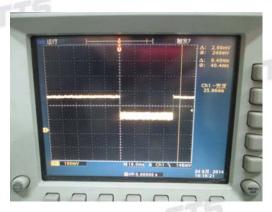
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RF Power 5VDC



The transmission duration is 36ms±5ms



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Safety Precautions:





The test stick can not contact the hazardous parts of the sample

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Post-test:

Dry Hest (Storage Test):



The AIS unit's LED is green



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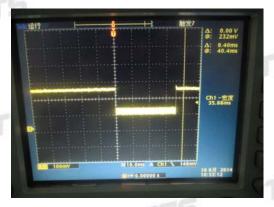
RF Power 5VDC



The AIS unit's LED A red 103 code



The MMSI number is "995121021"



The transmission duration is 36ms±5ms

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Vega AIS and Vega Beacon DC 12V

Dry Hest (Functional Test):



The AIS unit's LED is green

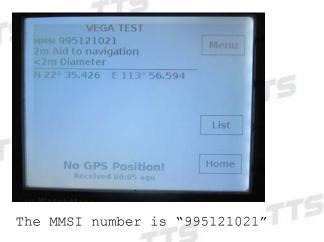


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The AIS unit's LED A red 103 code



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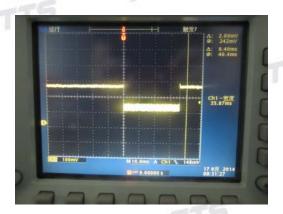


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RF Power 5VDC



The transmission duration is 36ms±5ms



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Damp Hest (Functional Test):



The AIS unit's LED is green



The AIS unit's LED A red 103 code

This is continuously continuous

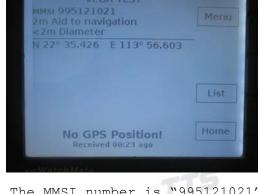


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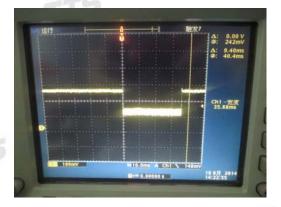
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The MMSI number is "995121021"



RF Power 5VDC

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The transmission duration is 36ms±5ms



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Low Temperature (Functional Test):



The AIS unit's LED is green



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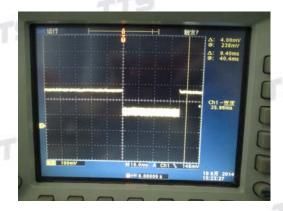
RF Power 5VDC



The AIS unit's LED A red 103 code



The MMSI number is "995121021"



The transmission duration is 36ms±5ms

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Vega AIS and Vega Beacon DC 12V

Vibration Test:



Rain Spray:



The AIS unit's LED is green



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A red 103 or 101 code flashed out

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No water getting into the sample

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