

**ENVIRONMENTAL QUALIFICATION FORM**

**NOMENCLATURE:** Active GPS Antenna

**TYPE/MODEL/PART NO.:** AV-801

**TSO NO.:** C190

**MANUFACTURE'S SPECIFICATION AND/OR OTHER APPLICABLE**

**SPECIFICATION:** AV-801 PRODUCT DRAWING PACKAGE AND ELECTRICAL TEST SPECIFICATION

**MANUFACTURER:** RAMI (R.A. MILLER INDUSTRIES INC.)

**ADDRESS:** 14500 168TH AVE., GRAND HAVEN, MI 49417

**REVISION & CHANGE NUMBER OF DO-160:** "G", SC-135

**DATE TESTED:** October 2015 through January 2016

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
Temperature and Altitude	4.0	
Low Temperature	4.5.1 & 4.5.2	4.5.2 Operating test only performed and tested to Category [F2]
High Temperature	4.5.3 & 4.5.4	4.5.4 Operating test only performed and tested to Category [F2]
In-Flight Loss of Cooling	4.5.5	Equipment Identified as Category X. No tests performed
Altitude	4.6.1	Equipment tested to Category [F2]
Decompression	4.6.2	N/A, No tests performed
Overpressure	4.6.3	N/A, No tests performed
Temperature Variation	5.0	Equipment tested to Category A

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Humidity	6.0	Equipment tested to Category B
Operational Shock and Crash Safety	7.0	Equipment tested to Category B
Vibration	8.0	Equipment tested to Category U, Zone G
Explosion	9.0	Equipment identified as Category X. No tests performed
Waterproofness	10.0	Equipment tested to Category S
Fluids Susceptibility	11.0	Equipment identified as Category F
Sand and Dust	12.0	Equipment tested to Category D
Fungus	13.0	Equipment identified as Category X. No tests performed
Salt Fog	14.0	Equipment tested to Category S
Magnetic Effect	15.0	Equipment identified as Category A
Power Input	16.0	Equipment identified as Category X. No tests performed

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Voltage Spike	17.0	Equipment identified as Category X. No tests performed
Audio Frequency Susceptibility	18.0	Equipment identified as Category X. No tests performed
Induced Signal Susceptibility	19.0	Equipment identified as Category ZC
Radio Frequency Susceptibility	20.0	Equipment identified as Category RR
Radio Frequency Emission	21.0	Equipment identified as Category H
Lighting Induced Transient Susceptibility	22.0	Equipment identified as Category A3J33
Lighting Direct Effects	23.0	Equipment identified as Category 2A
Icing	24.0	Equipment identified as Category C
Electrostatic Discharge	25.0	Equipment identified as Category X. No tests performed
Fire, Flammability	26.0	Equipment identified as Category X. No tests performed