

## PART 80 COMPLIANCE REPORT

| REVISIONS      |          |      |                  |
|----------------|----------|------|------------------|
| Revision Level | Approval | Date | Description      |
| -              |          |      |                  |
| A              |          |      | Released Per ECO |
|                |          |      |                  |
|                |          |      |                  |
|                |          |      |                  |

**ACR ELECTRONICS INC**  
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7/18/2000

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APVD  
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7/18/2000

A 18560 Sheet 1

SIZE CODE IDENT  
NO Of 4

**ACR  
PATHFINDER 2  
FCC Part 80.1101  
Compliance Report**

**Compliance Report**

**A**

**Attached Reports:**

- 1.) FCC Electronic application #EA 98229, for ACRSA Tellusart MKII approval info.
- 2.) Label Drawings and Pictures
- 3.) ACR SART Instruction manual

**Application for type acceptance requirements, Part 2.983**

|  |   |
|--|---|
| a.) Name of applicant,                         | ACR, Vendor                               |
| b.) Identification of equipment,               | PATHFINDER 2                              |
| c.) Production is planned starting Q3 of 2000. |   |
| d.) Technical Description                      | Search and rescue 9 GHz radar transponder |
| 1.) Emission                                   | 300MXON                                   |
| 2.) Frequency range                            | 9200-9500MHz                              |
| 3.) Operating power                            | . 400 Watts min                           |
| 4.) Max operating power                        | ≤ 4dB variation                           |
| 5.) DC Voltage                                 | min 11.0 Vdc                              |
| 6.) Semiconductor description                  | See Figure 6                              |
| 7.) Circuit Diagrams                           | See page 4                                |
| 8.) Instruction Manual                         | See attached Doc 3                        |
| 9.) Tune up procedure                          | See attached Doc 1                        |
| 10.) Freq. stab. Des                           | See attached Doc 1                        |
| 11.) Sup. Spur Rad Des                         | See attached Doc 1                        |
| 12.) No Digital Mod. Ckts                      | NA, FM analog mod. 300MXON                |
| e.) RF power measurements.                     | See attached Doc 1                        |
| f.) Photographs of all labels.                 | See attached Doc 2                        |
| g.) 8*10 photographs                           | See attached Doc 2                        |
| h.) No Encoders                                | Not applicable.                           |
| i.) No external power amplifiers.              | Not applicable.                           |
| j.) No AM Broadcast equipment.                 | Not applicable.                           |

**Test Report for compliance to FCC part 80.1101.****Performance standard recommendations from FCC Rules part 80.1101****Section 6, 9GHz radar transponders (SART).**

- 1.) IMO resolution A.604 (15) recommended.
- 2.) CCIR 628-1 recommended

| ACR ELECTRONICS INC. | CODE IDENT NO | SHEET | TEST PROCEDURE                     | REV |
|----------------------|---------------|-------|------------------------------------|-----|
|                      | 18560         | -2-   | <b>Part 80 compliance<br/>SART</b> | A   |

**IMO A.697 (17) revokes A.604 (15).**  
**ITU-R M.628-3 replaces CCIR 628-1.**

**IEC 1097-1 Global Maritime distress and safety systems part 1:** Radar transponder-Marine search and rescue (SART), operational and performance requirements, methods of testing and required test results.

**Standards Note:**

The Technical characteristics of ITU-R M.628-3 ANNEX 1 form the technical requirements of IEC 1097-1.

IEC 1097-1 states the method of measurement and required test results for compliance, hence the inclusion of passing type approval report 800011 and 102208B showing compliance to IEC 1097-1. ITU-R M.628-3 makes no recommendations on the measurement standards used for measuring the performance of a SART device.

**COMPLIANCE/APPROVAL STATEMENT:**

In combination with the approval application of ACRSA TELLUSART MKII under PART 80.1101, Electronic filing number #EA98229 for FCC ID #O48ACRSA-MKII.

The ACR PATHFINDER 2 radar transponder meets the requirements under PART 80.1101 based on the rational that the only difference between the two units are labeling and is submitted for type approval as such under part 80.1101.

See FCC application EA#98229 for manufacturer ACRSA Tellusart MKII, FCC ID# O48ACRSA-MKII.

**Compliance Report by:**

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**ACR ELECTRONICS INC.**

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TEST PROCEDURE

**Part 80 compliance  
SART**

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