

STANDARD

**7137**

NORME

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Quatrième édition  
1995-06-01

INTERNATIONALE

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**Aircraft — Environmental conditions and test  
procedures for airborne equipment**

**Aéronefs — Conditions d'environnement et  
procédures d'essai pour les équipements  
embarqués**



Reference number  
Numéro de référence  
ISO 7137 1995(E/F)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7137 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 5, *Environmental and operational conditions for aircraft equipment*

This fourth edition cancels and replaces the third edition (ISO 7137 1992), of which it constitutes a technical revision to endorse Revision No. 2 of publications EUROCAE/ED-14C and RTCA/DO-160C.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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# Aircraft — Environmental conditions and test procedures for airborne equipment

## 1 Scope

This International Standard lists the different environmental conditions and test procedures for airborne equipment and is primarily intended for civil and/or transport aircraft applications.

This International Standard is an endorsement of sections of publications EUROCAE/ED-14C and RTCA/DO-160C<sup>1)</sup>, which supplement several ISO International Standards

## 2 Requirements

Environmental conditions and test procedures applicable to airborne equipment are laid down in EUROCAE/ED-14C and RTCA/DO-160C, 1989-12-12 editions, amended in accordance with revision No. 2 (1992-06-19), which are adopted as *de facto* ISO International Standards

All environmental conditions and test procedures laid down in EUROCAE/ED-14C and RTCA/DO-160C are not necessarily applicable to all airborne equipment. The selection of the appropriate environmental conditions and test procedures is the responsibility of the writer (author) of the performance standards for the specific airborne equipment.

## 3 Test procedures

The test procedures given in table 1 are issued or endorsed by ISO.

## 4 Reference to ISO test procedures

When referring to environmental conditions and test procedures dealt with in this International Standard, reference shall be made to the number of this International Standard and to the reference number of the test procedure as given in table 1. Use the example given below as a model.

### EXAMPLE

Reference to the test procedure for fluids susceptibility in accordance with section 11 of EUROCAE/ED-14C and RTCA/DO-160C shall be made as follows

#### **Test procedure ISO 7137 - 1.6**

## 5 Revision of EUROCAE/ED-14C and RTCA/DO-160C

It has been agreed with EUROCAE and RTCA that Technical Committee ISO/TC 20 will be consulted in the event of any revision or amendment of these publications

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1) These publications can be obtained from the following addresses

EUROCAE (European Organization for Civil Aviation Electronics), 11 rue Hamelin, 75783 Paris Cedex 16, France

RTCA (Radio Technical Commission for Aeronautics), 1140 Connecticut Avenue, N W , Suite 1020, Washington, DC 20036, USA